



Brocade Fabric OS v8.1.2a

Release Notes v1.0

November 17, 2017

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Document History

Version	Summary of Changes	Publication Date
v1.0	Initial Release for Fabric OS 8.1.2a	November 17, 2017

Preface

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, 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 nonport 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.

Brocade Customers

For product support information and the latest information on contacting the Technical Assistance Center, go to <http://www.brocade.com/services-support/index.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
<p>Preferred method of contact for non-urgent issues:</p> <ul style="list-style-type: none"> • My Cases through MyBrocade • Software downloads and licensing tools • Knowledge Base 	<p>Required for Sev 1-Critical and Sev 2-High issues:</p> <ul style="list-style-type: none"> • Continental US: 1-800-752-8061 • Europe, Middle East, Africa, and Asia Pacific: +800-AT FIBREE (+800 28 34 27 33) • For areas unable to access toll free number: +1-408-333-6061 • Toll-free numbers are available in many countries.

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.

Related Documentation

Visit the Brocade website to locate related documentation for your product and additional Brocade resources such as white papers, online demonstrations, and data sheets.

You can download additional publications supporting your product at www.brocade.com. You can either use the search tool at the top right of the page, or navigate to the pages specific to your product. To do this, click the Brocade Products & Services tab, then click the Brocade product type, and finally click on the name or image for your product to open the individual product page. The user manuals are available in the Resources section at the bottom of the page.

To get up-to-the-minute information on Brocade products and resources, go to MyBrocade.com. You can register at no cost to obtain a user ID and password. Release notes are available on MyBrocade under Product Downloads.

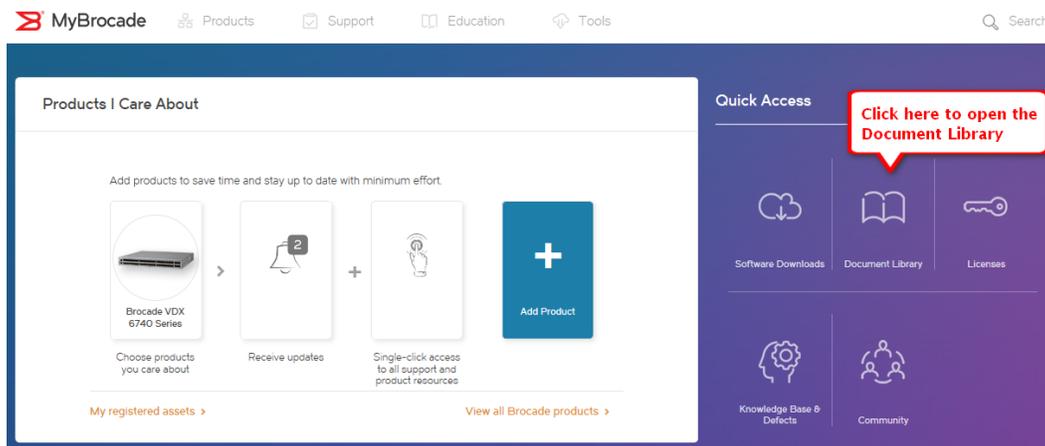
Locating product manuals and Release Notes

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.

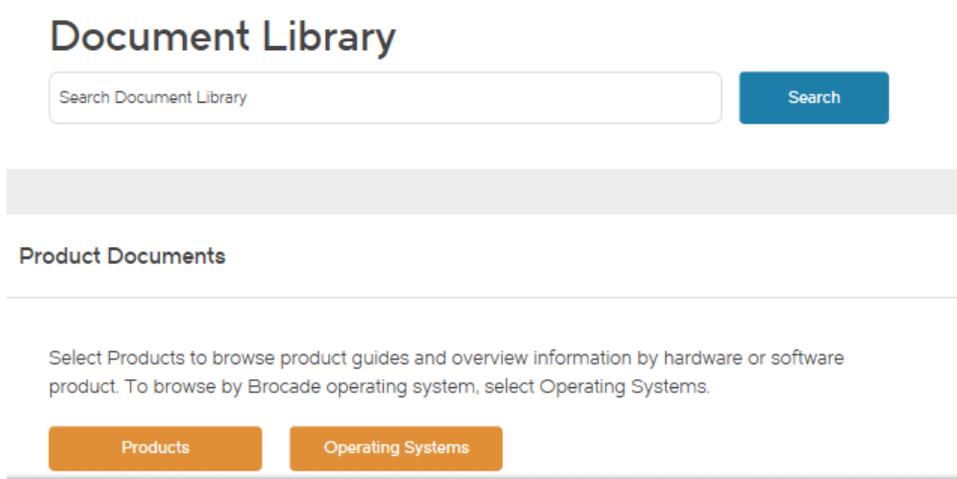
Locating product manuals

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**.

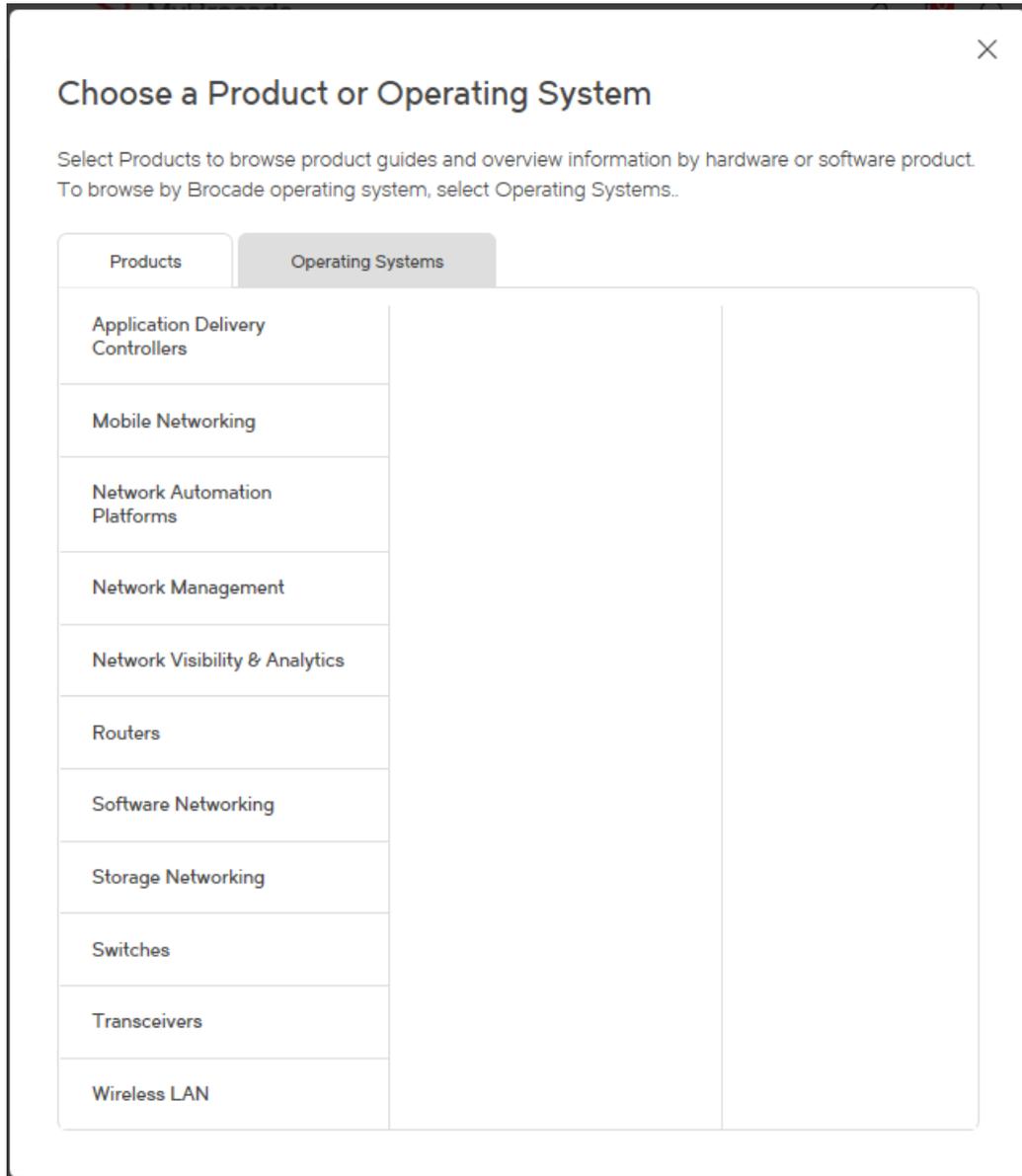


3. Select **Products** to browse product guides and overview information, or select Operating Systems to browse by Brocade operating system. Alternatively, you can enter a term in the search bar.



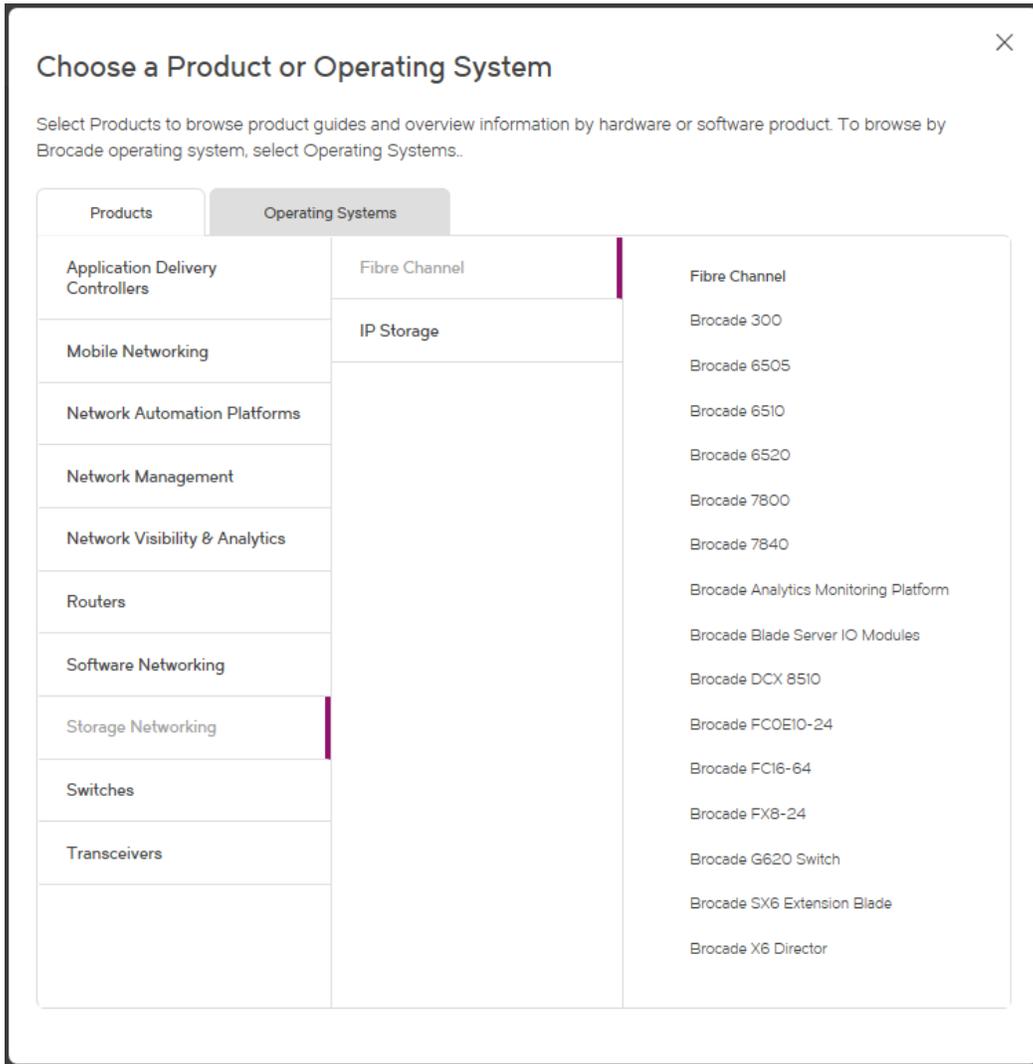
Selecting by Product

1. If you click **Product**, 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**.



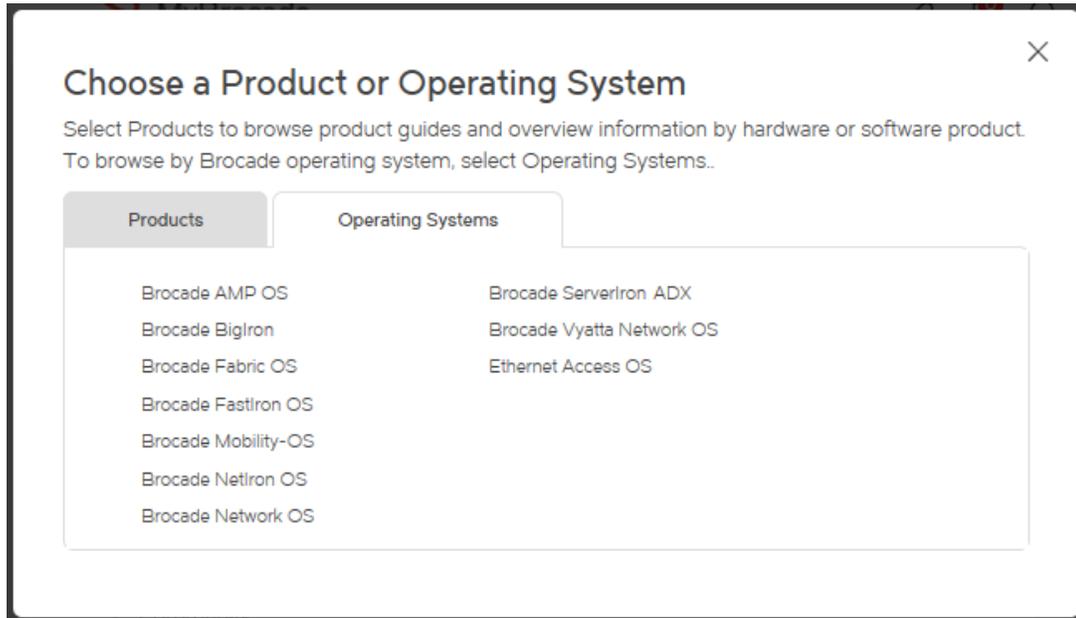
2. Click on the product whose documentation you want to view. This opens the Document Library for that product.

The screenshot displays the Brocade X6 Director product page. At the top, it features the product name 'Brocade X6 Director' and 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.' A 'Learn More' link is provided. To the right is an image of the hardware. Below this is a 'Featured Resources' section with three cards: 'Data Sheet: Brocade X6 Directors Data sheet', 'FAQs: Brocade Fabric Vision...', and 'White Paper: Cloud Optimized...'. The main content area is titled 'Product Guides' and shows a list of three documents: 'Brocade X6 Director Technical Specifications' (354.4 KB, 09/20/2016, HTML/PDF), 'Brocade X6-4 Director Hardware Installation Guide' (4.3 MB, 09/20/2016, HTML/PDF), and 'Brocade X6-8 Director Hardware Installation Guide' (4 MB, 09/20/2016, HTML/PDF). A sidebar on the left includes 'Categories' (Hardware, Operating System) and a 'Select OS release' dropdown menu.

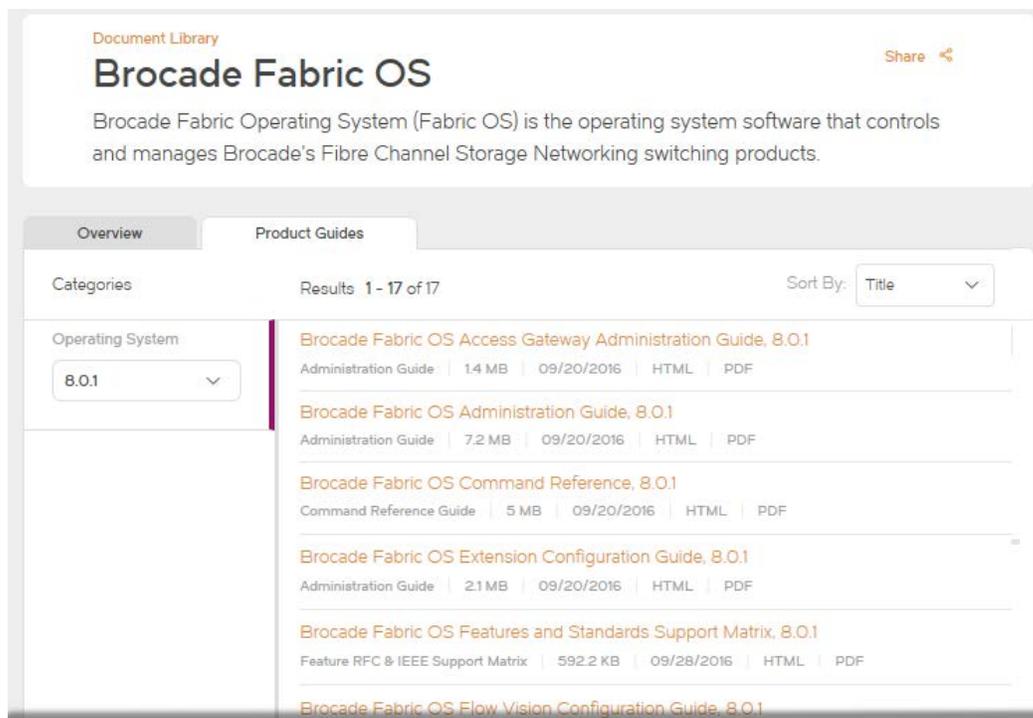
3. Click on the link for the document you want to read, and then open or save it. You may have to scroll inside the results to see the document you want.

Selecting by Operating System

1. If you click **Operating System**, choose your Operating System from the displayed panel.



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.

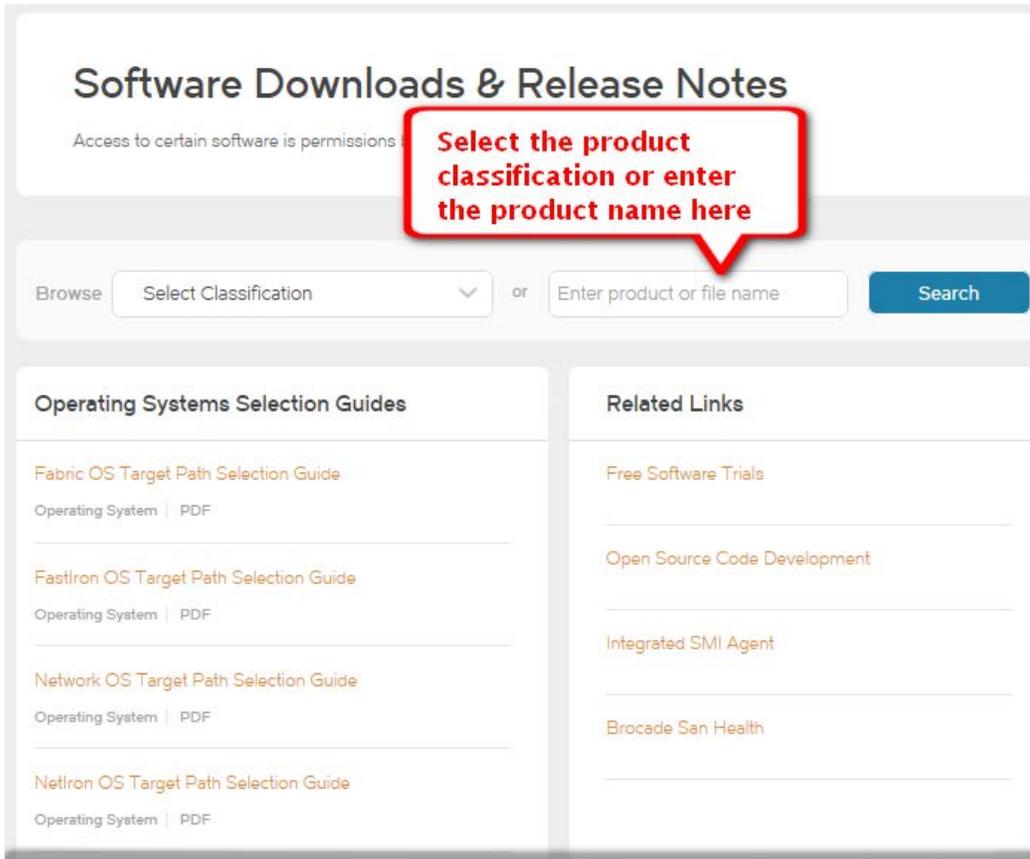


4. Click on the link for the document you want to read, and then open or save it. You may have to scroll inside the results to see the document you want.

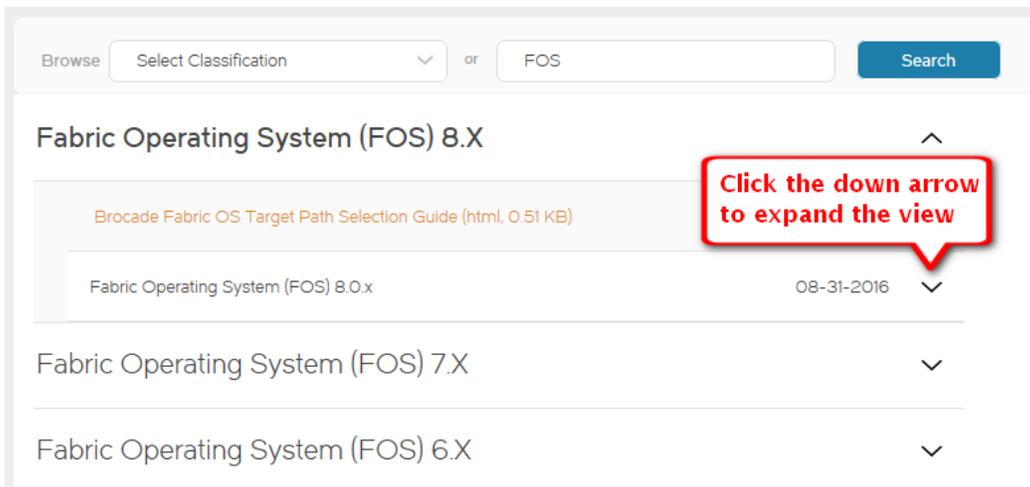
Locating release notes

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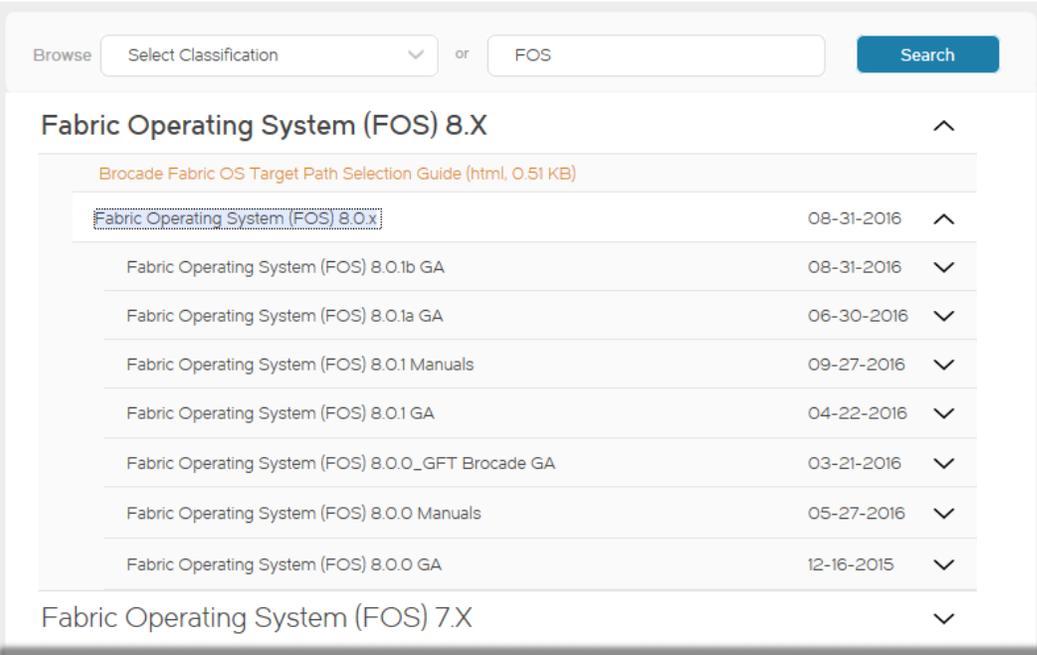
1. Open <http://my.brocade.com> and log in.
If you do not have a login, registration is free. Click on **Register Now** and follow the directions.
2. Once you have logged in, the product manuals can be found using the following procedure.
3. Click **Software & Driver Downloads** under Licenses & Downloads.
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. Clicking the down arrow expands to show more results.



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

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 in two ways:

- Through the online feedback form in the HTML documents posted on www.brocade.com.
- By sending your feedback to documentation@brocade.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.

Overview

Fabric OS v8.1.2a is a patch release based on FOS v8.1.2. All hardware platforms and features supported in FOS v8.1.2 are also supported in FOS v8.1.2a. This release contains fixes for defects listed at the end of this document.

What is New in This Release (FOS v8.1.2a)

Resolution of Important Defects

- DEFECT000656422 - Webtools client launch will be blocked by Java Security.

What is New in FOS v8.1.2

Resolution of Important Defects

- DEFECT000640130 - Kernel panic after a software dead lock condition.
- DEFECT000640661 - Upgrading a switch to FOS7.4.x or higher versions may result in degraded FCIP performance.
- DEFECT000646285 - Customer may encounter RDP responses from switch being split across two frames, resulting in issues with HBA drivers.
- DEFECT000646458 - Customer may encounter continuous Switch crashes and be unable to collect supportsave.
- DEFECT000 647922 - 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. User may also encounter switch panic following the repeated logging of RASLOG C4-1010.
- DEFECT000650921 - User may encounter Host not able to discover zoned target.
- DEFECT000652508 - Physical Layer errors / issues (crc errors, link resets, etc.) may be encountered
- DEFECT000639775 - An mdd crash may be observed on the active CP.
- DEFECT000647090 - FICON Channel and device nodes are not listed as members in the MAPS "logicalgroup --show" CLI output under ALL_OTHER_F_PORTS as expected.
- DEFECT000637701 - Switch may be unable to set the secondary NTP server following the failure of the primary NTP server synchronization.

Software features

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

Modified software features

- Support ClearLink Diagnostics (D_port) with electrical and optical loopback test for SmartOptics 16Gbps DWDM 40km SFP+ (part number 16G-ER-Dxxx-BR2) and SmartOptics 16Gbps ER 40km SFP+ (part number 16G-ER-BR2). These optics are not supported on Brocade 6520.

What is New in FOS v8.1.1

Software features

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

Modified software features

- Support in-flight encryption or compression feature to co-exist on the same Gen 5 ASIC chip with vTap (Remote Flow Mirroring). Administrators can enable vTap on a Gen 5 (16 Gbps) port of Brocade DCX8510 and 6520 when other ports on the same ASIC chip have the in-flight encryption or compression feature enabled. This feature is enabled by the new configuration "vTap and Encryption/Compression Coexistence Mode" with the **configurechassis** command. This enhancement is not available on 6510 or applicable to other platforms.
- Enhance HTTP(S)-based management security by increase the protection and strength of the management session ID.

Security Vulnerability Fixes

This section lists the Common Vulnerabilities and Exposures (CVEs) fixes that are added in FOS v8.1.1.

- CVE-2016-2177: OpenSSL through 1.0.2h incorrectly uses pointer arithmetic for heap-buffer boundary checks, which might allow remote attackers to cause a denial of service (integer overflow and application crash) or possibly have unspecified other impact by leveraging unexpected malloc behavior, related to s3_srvr.c, ssl_sess.c, and t1_lib.c.
- CVE-2016-10009: Untrusted search path vulnerability in ssh-agent.c in ssh-agent in OpenSSH before 7.4 allows remote attackers to execute arbitrary local PKCS#11 modules by leveraging control over a forwarded agent-socket.
- CVE-2016-10012: The shared memory manager (associated with pre-authentication compression) in sshd in OpenSSH before 7.4 does not ensure that a bounds check is enforced by all compilers, which might allows local users to gain privileges by leveraging access to a sandboxed privilege-separation process, related to the m_zback and m_zlib data structures.

What is New in FOS v8.1.0b

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.

New optical transceivers

FOS v8.0.1b supports the following new optical transceivers on the noted devices:

- 4x32GFC QSFP with break-out capability, part number 57-1000351-01 (customer P/N XBR-000275) on ICL ports on Brocade X6 directors.
- 2km 4x32G CWDM4 QSFP, part number 57-1000480-01 (customer P/N XBR-000285) on ICL ports on Brocade X6 directors.

Software features

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

Modified software features

- Support for electrical and optical loopback test in ClearLink Diagnostics (D_Port) test with 4x32GFC QSFP with break-out capability part number 57-1000351-01 (customer P/N XBR-000275).
- Support for the following security enhancements as part of Common Criteria NDcPP:
 - Support strict validation of X509 digital security certificates during certificate import and session establishment with the Common Criteria crypto configuration template used by the **secCryptoCfg** command.
 - Support certificate revocation check enforcement with the Online Certificate Status Protocol (OCSP). If a certificate contains the OCSP URI, revocation check is performed during certificate import and TLS session establishment. OCSP check is not performed if a certificate does not contain OCSP URI.
 - Support RADIUS, LDAP, and Syslog client authentication and chain of certificates validation if connection to an external server is established over secure TLS connection.
 - Support TLS protocol version configuration and Syslog cipher configuration with **secCryptoCfg** command template.
 - Add new audit log messages for certificate validation results (message ID SEC-3081), TLS (message ID SEC-3077 and SEC-3078) and SSH (message ID SEC-3076) session establishment results.
 - Support firmware integrity check during switch boot up time with the new **--enable/--disable boot** option of **firmwareCheck** command.
 - Add new audit log messages when unsecure protocols (Telnet or HTTP) are enabled by ipfilter policies or HTTPS is disabled by ipfilter policies.
 - Support SSH rekey interval configuration with the **sshUtil** command with the new option **rekeyinterval**.

CLI Changes

New Commands

The following commands are new in this release.

- bladevershow
- haShutDown
- nbrShow
- pathBwConfig
- slotstatsclear
- snmpStatistics

Modified Commands

Refer to the “Modified commands” section in the *Brocade Fabric OS Command Reference* supporting Fabric OS v8.1.0.

What is New in FOS v8.1.0a

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.

New optical transceivers

FOS v8.1.0a supports the following new optical transceivers on the noted devices:

- 4x32GFC QSFP with break-out capability part number 57-1000351-01 (customer P/N XBR-000275) on Brocade G620. This optic is not supported on ICL ports on X6 directors.

Software features

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

Modified software features

The following software features have been modified in this release.

- Support for creation of rule-on-rule monitoring by MAPS command **mapsrule**.
- Support for cloning rules with logical groups by MAPS command **mapsrule**.
- Enhanced **chassisshow** command output to show HVAC or HVDC power supply type.
- Support for electrical and optical loopback test in ClearLink Diagnostics (D_Port) test on 128G FC (4x32G) QSFP without break-out capability (part number 57-1000331-01, customer part number XBR-000268).
- Enhanced **slotcfgpersistence** command to maintain the power-off configuration for an empty slot so that a blade insertion to the slot do not automatically power-on the blade.
- Enhanced **portcfg** command for extension platforms.
- Support for **lscfg --change -ficon** command option for logical switch configuration for FICON environment.
- Support for auto-speed negotiation (ASN) with the 4x32GFC break-out QSFP (part number 57-1000351-01). Note that this requires ASN support on both ends of the link.

Security Vulnerability Fixes

This section lists the Common Vulnerabilities and Exposures (CVEs) fixes that are added in FOS v8.1.0 and FOS v8.1.0a.

- CVE-2016-2177: OpenSSL through 1.0.2h incorrectly uses pointer arithmetic for heap-buffer boundary checks, which might allow remote attackers to cause a denial of service (integer overflow and application crash) or possibly have unspecified other impact by leveraging unexpected malloc behavior, related to `s3_srvr.c`, `ssl_sess.c`, and `t1_lib.c`.
- CVE-2016-2178: The `dsa_sign_setup` function in `crypto/dsa/dsa_ossl.c` in OpenSSL through 1.0.2h does not properly ensure the use of constant-time operations, which makes it easier for local users to discover a DSA private key via a timing side-channel attack.

- CVE-2016-2180: The TS_OBJ_print_bio function in crypto/ts/ts_lib.c in the X.509 Public Key Infrastructure Time-Stamp Protocol (TSP) implementation in OpenSSL through 1.0.2h allows remote attackers to cause a denial of service (out-of-bounds read and application crash) via a crafted time-stamp file that is mishandled by the “openssl ts” command.
- CVE-2016-2182: The BN_bn2dec function in crypto/bn/bn_print.c in OpenSSL before 1.1.0 does not properly validate division results, which allows remote attackers to cause a denial of service (out-of-bounds write and application crash) or possibly have unspecified other impact via unknown vectors.
- CVE-2016-5195 (a.k.a. Dirty COW): Unprivileged local users could gain write access to otherwise read-only memory mappings, and thus increase their privileges on the system.
- CVE-2016-6210: sshd in OpenSSH before 7.3, when SHA256 or SHA512 are used for user password hashing, uses BLOWFISH hashing on a static password when the username does not exist, which allows remote attackers to enumerate users by leveraging the timing difference between responses when a large password is provided.
- CVE-2016-6302: The tls_decrypt_ticket function in ssl/t1_lib.c in OpenSSL before 1.1.0 does not consider the HMAC size during validation of the ticket length, which allows remote attackers to cause a denial of service via a ticket that is too short. CVE-2016-6304: Multiple memory leaks in t1_lib.c in OpenSSL before 1.0.1u, 1.0.2 before 1.0.2i, and 1.1.0 before 1.1.0a allow remote attackers to cause a denial of service (memory consumption) via large OCSP Status Request extensions.
- CVE-2016-6303: Integer overflow in the MDC2_Update function in crypto/mdc2/mdc2dgst.c in OpenSSL before 1.1.0 allows remote attackers to cause a denial of service (out-of-bounds write and application crash) or possibly have unspecified other impact via unknown vectors.
- CVE-2016-6304: Multiple memory leaks in t1_lib.c in OpenSSL before 1.0.1u, 1.0.2 before 1.0.2i, and 1.1.0 before 1.1.0a allow remote attackers to cause a denial of service (memory consumption) via large OCSP Status Request extensions.
- CVE-2016-6306: The certificate parser in OpenSSL before 1.0.1u and 1.0.2 before 1.0.2i might allow remote attackers to cause a denial of service (out-of-bounds read) via crafted certificate operations, related to s3_clnt.c and s3_srvr.c.

What is New in FOS v8.1.0

Hardware

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

New devices

Product name	Device Name
Brocade G610	Gen 6 Fibre Channel 24-port fixed port switch
Product features	Key features <ul style="list-style-type: none"> • 24 ports at 32 Gbps • POD license • VM Insight • Access Gateway mode • Fabric Vision features

New blades

FOS v8.1.0 and FOS v8.0.2 add the support of the following blades in the Brocade DCX 8510 Backbone. FOS v8.0.0 and FOS v8.0.1x releases do not support these blades.

- FC8-32E, FC8-48E, and FC8-64.

Deprecated hardware

None

Hardware enhancements

The Brocade X6 Directors now have a power supply unit (PSU) option that supports both high voltage AC (HV AC) and high voltage DC (HV DC).

Software features

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

New software features

The following software features are new in this release.

- Support for Brocade G610
- Support for VM Insight — Brocade's Gen 6 product built-in capability to identify and monitor Virtual Machine (VM) traffic flows within a Fibre Channel network. FOS v8.1.0 introduces a new service named application server that manages the VM identification assigned to flows from VM. In addition, Flow Vision, MAPS, and Frame Viewer log features are enhanced to support identifying, monitoring, and troubleshooting VM flows.

Modified software features

The following software features have been modified in this release.

Virtual Fabric Scalability Enhancement

FOS v8.1.0 increases the scalability of Virtual Fabric support for X6 Directors. The number of logical switches (LS) in an X6 Director chassis is increased from eight to sixteen. The new scalability is supported when FOS v8.1.0 is running on both CPs of X6 Directors.

In-flight Encryption for X6 Director

FOS v8.1.0 introduces in-flight encryption support for X6 Directors with FC32-48 port blades 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 per ASIC is supported for in-flight encryption on the FC32-48 blade. The total bandwidth of the encryption enabled ports on an ASIC is 64 Gbps.

Monitoring and Alerting Policy Suite (MAPS)

FOS v8.1.0 includes following MAPS enhancements:

Rule-on-rule Monitoring

FOS v8.1.0 supports a new rule type, named rule-on-rule (ROR). MAPS rules are defined with conditions to evaluate a monitoring system, such as port CRC error and health status of hardware components. A rule-on-rule is defined to monitor a base MAPS rule. A rule-on-rule evaluates the number of times within a given timebase that the base rule is violated. Actions defined for a rule-on-rule are triggered when the frequency that a base rule violation exceeds the threshold. The rule-on-rule monitoring allows administrators to apply different actions based on the frequency that base rules are violated.

Note: FOS v8.1.0 does not support creation of rule-on-rule in MAPS. This is introduced in FOS v8.1.0a.

VM Insight Flow Monitoring

FOS v8.1.0 supports monitoring a VM flow in MAPS. Users can define and activate a VM flow through Flow Vision command, import the VM flow into MAPS, and create a MAPS rule with thresholds for the supported monitoring systems. The monitoring systems supported for Flow Monitoring flows are the same as in FOS v8.0.1.

Configurable MAPS Alert Severity

FOS v8.1.0 supports configurable severities for the alert messages in user-defined rules. Administrators are able to adjust the alert message severities based on their operational procedures for different rule violations. FOS adds a new **-severity** option to MAPS rule command to configure directly an alert message severity for each rule.

Clone Rules with Logical Group

FOS v8.1.0 enhances the logical group cloning operation to be able to clone all rules associated with a logical group in a single step with the new **-clonebygroup** option to the **mapsrule** command.

Note: FOS v8.1.0 does not support cloning rules with logical group. This is introduced in FOS v8.1.0a.

Port TX, RX, and UTIL Monitoring Enhancement

FOS v8.1.0 enhances monitoring of port TX, RX, and UTIL statistics by adding support of these monitoring systems at timebase of a minute.

Error Ports Monitoring

FOS v8.1.0 adds MAPS monitoring of the number of error ports in a switch. When the number of error ports in a switch exceeds the threshold in the rule, MAPS sets alerts for switch status changing to marginal or critical.

In-flight Encryption Port Monitoring

FOS v8.1.0 adds monitoring for the ISL in-flight encryption feature of the X6 Directors. When errors, including encryption block errors, encryption discard errors, and short frame errors, occur on an encryption port that can impact encrypted traffic, MAPS send out alert messages to notify administrators.

MAPS Predefined Policy Modification

FOS v8.1.0 tailors the predefined MAPS policies to be more specific for the switch platforms that are monitored. This makes more efficient use of the number of rules in a predefined policy. The following are summaries of these change. Please refer to *MAPS Configuration Guide Supporting FOS v8.1.0* for details of the changed policy.

- Extension (FCIP and IP Extension) rules are removed from platforms without this support.
- Fixed-port switch removes the rules for modular switches (Directors).
- Back-end port rules are removed from switches without BE connectivity

Miscellaneous

FOS v8.1.0 includes the following miscellaneous MAPS usability enhancements.

- New SNMP Trap for MAPS quiet time expiration.
- MAPS modifies the power supply (PS) monitoring rules for a Switch Status Policy on fixed-port switch platforms.
- MAPS enforces the following maximum number limit for MAPS custom rules and policies.
 - Maximum user defined rules per logical switch: 500
 - Maximum rules in a user defined policy per switch: 350
 - Maximum user defined policies per logical switch: 20
 - Maximum rule-on-rule per policy: 50

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.

Flow Vision

FOS v8.1.0 provides the following new capabilities and enhancements to Flow Vision.

Flow Monitor support for VM Insight

FOS v8.1.0 extends the Flow Monitor feature to support VM Insight on G620, G610, and X6. Flow Monitor provides administrators the capability to seamlessly monitor network and SCSI IO statistics from flows originated on virtual machines connected to Brocade Gen 6 platforms.

Flow Mirror Support in Access Gateway

FOS v8.1.0 supports Flow Mirror on Brocade switches in Access Gateway mode. This enhancement improves troubleshooting on Access Gateway. Flow Mirror on Access Gateway supports mirror to the switch CPU or a mirror port configured on the same Access Gateway.

Flow Generator over FCR

FOS v8.1.0 supports exchanging SIM port parameters across FCR in edge-to-edge topology only. With this enhancement, Flow Generator can generate flow traffics in FCR edge-to-edge topologies.

FCIP and IP Extension

FOS v8.1.0 provides additional enhancements to Brocade storage extension platforms.

Non-disruptive Firmware Download for IP Extension

FOS v8.1.0 supports non-disruptive firmware download for IP Extension traffic on Brocade 7840 and SX6, along with FC Extension (FCIP). WAN bandwidth will be shared for both FCIP and IP Extension during firmware download. During firmware download operation, throughput on an extension platform is limited to half the bandwidth that can be supported by the platform.

IPSec Algorithm Enhancements

FOS v8.1.0 supports new algorithms for key generation, encryption, and integrity under IPSec for Suite-B compliance. FOS v8.1.0 supports a new IKE profile for 192-bit security with the following algorithms.

- ECDH-P384 for the Diffie-Hellman exchange
- ECDSA-P384 for the authentication.
- AES-256-CBC for encryption
- HMAC-SHA-384-192 for integrity
- PRF-HMAC-SHA-384 for PRF

IPSec Configuration

FOS v8.1.0 supports new IPSec configuration parameters to choose preshared or PKI authentication methods. In addition, a restart option is supported for the **portcfg ipsec-policy** command.

Administrators can use this option to restart any IKE sessions that are in an inactive state under that policy.

SX6 Virtual Fabric Enhancement

FOS v8.1.0 supports 16 Logical Switch (LS) per X6 Director. This support also includes SX6 extension blades in an X6 Director to share Ethernet ports in default switch by VEs from other LS and to share VE over XISL.

VM Insight Support

FOS v8.1.0 supports VM Insight frame header with all emulated FCP I/O sequences on 7840 or SX6 VE ports. If an initiator adds the optional VM header as part of FC frame, the optional header will be used between the FCIP complex and the target device and included in FCP sequences back to the initiator.

WAN Tool Enhancements

FOS v8.1.0 supports new options for WAN Tool to specify a connection as initiator or listener, to show statistics of both local and remote peer, to show configured and negotiated SLA configuration for the session in the detailed output displayed by command, and to show the packet drop percentage of the last 3 second sample period in the detailed output.

Maximum Circuits per Tunnel

FOS v8.1.0 increases the number of supported circuits per tunnel. Each tunnel supports a maximum of ten circuits. The maximum number of circuits per Data Processor (DP) remains unchanged. With this change the number of supported Automated WAN Tool sessions per DP will be increased to twenty. Administrators can configure all ten circuits for Automated WAN Tool support. The User WAN Tool sessions max will remain at eight per DP.

31-Bit Subnet Mask

FOS v8.1.0 supports a 31-bit subnet mask (/31) to be assigned to a point-to-point IP network. Administrators can assign only two IPv4 addresses in their subnet and thus conserve the IPv4 address usage.

Miscellaneous

FOS v8.1.0 includes the following miscellaneous extension enhancements:

- Introduce **geportperfshow** command for monitoring performance on Ethernet ports.
- The **portcfg** command supports a new option **filter-set** to allow administrators to define a compound set of CLI filters for use with extension commands
- Supports new CLI filters including VLAN ID, OperStatus of an extension tunnel/circuit, or IP address prefix or mask.
- The **portcfg app-type** command supports user defined app types for TCL definitions, per-flow statistics and filtering.
- Obscure pre-shared keys in the command output and uploaded configuration file.

Note: The **portcfg** command enhancements is supported in FOS v8.1.0a or later release.

Zoning

FOS v8.1.0 provides the following enhancements to zoning.

Alias Support in Peer Zoning

FOS v8.1.0 supports zoning alias to be used in peer zones, either as a principal member or a non-principal member. With this support, administrators can use aliases in peer zones as in other zone types.

Zone Object Name Enhancements

FOS v8.1.0 supports additional special characters: hyphen, dollar, caret, in zone object names. It also supports zoning object names starting with a numeric character.

Zone Database Enforcement

FOS v8.1.0 enhances the enforcement of the zone database size limits for fixed-port switch (1MB) and Directors (2MB) in VF mode. The aggregated zoning database size from all logical fabrics (LF) are enforced against the above limits. The added enforcement check prevents unsupported zoning configuration from being created.

Security

FOS v8.1.0 provides the following enhancements to system security.

LDAP Configuration Enhancement

FOS v8.1.0 enhances the LDAP configuration support for Brocade vendor specific attributes, such as chassis role, home logical fabric (LF), and LF list to be assigned per LDAP server group. The **ldapcfg** command supports a new option **--mapattr** to assign a list of vendor specific attributes. With this enhancement, a user account that belongs to an LDAP role or group can inherit the same switch attributes, if those attributes are not defined for that individual user on the server.

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.

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.

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.

RAS

FOS v8.1.0 includes the following enhancements to RAS functionalities.

Audit Messages for Switch and Port State and Configuration

FOS v8.1.0 adds new audit log messages for operational state and configuration change of a switch, blades, slots, and ports initiated by administrators. Audit messages are generated with the following FOS commands:

- portdisable / portenable
- switchdisable / switchenable
- bladedisable / bladeenable
- chassisdisable / chassisenable
- slotpoweroff / slotpoweron
- portcfgpersistentdisable / portcfgpersistentenable
- portcfgdefault
- portcfgfec
- portcfglongdistance
- portcfgoctetspeedcombo
- portcfgqos
- portcfgspeed
- portcfgtrunkport
- portcfgismode
- fabricprincipal

SupportSave Enhancement

FOS v8.1.0 adds the output of **portbuffershow** to the “supportsave” capture for troubleshooting.

Link Reset (LR) RASLOG

FOS v8.1.0 generates message IDs RASLOG C3-1040 and C4-1040 respectively with Link Reset (LR) when multiple RDY/Frame Loss is detected.

Frame Viewer Log Enhancements

FOS v8.1.0 adds the discarded frames due to Type-1, Type-2, and Type-6 miss to the frame viewer log. The **framelog** CLI command is enhanced to support these three new discard types. FOS v8.1.0 also displays the VM Entity ID (UUID) if a discarded frame contains the VM Application ID in the frame header. The corresponding RASLOG message (AN-1014) is also enhanced to display the VM UUID.

Fibre Channel Routing (FCR)

FOS v8.1.0 supports following FCR enhancements.

LSAN Devices Scalability Increase

FOS v8.1.0 increases the total number of LSAN zones and LSAN devices supported in a metaSAN. The number of LSAN zones supported is increased from 5,000 to 7,500. The number of LSAN devices supported is increased from 10,000 to 15,000. The LSAN device scalability increase is supported with Gen 6 platforms as backbone routers.

FC-4 Type for Proxy Devices

FOS v8.1.0 adds support of exchange FC-4 type and SIM port capabilities for proxy devices across FCR with Name Server. With this enhancement, hosts can discover targets with FC-4 type feature queries (GID_FF).

ClearLink Diagnostics (D_Port)

FOS v8.1.0 enhances fabriclog for D_Ports to enable and disable fabriclog during D_Port test, or to automatically stop fabriclogs when D_Port tests fail. FOS v8.1.0 adds audit log messages for D_Port configuration changes.

Access Gateway

FOS v8.1.0 enhances **fosexec** command to support execution of a command on an AG remotely from a domain in the attached fabric. This is an extension of the remote command execution for switch domains within a fabric.

Management Server

FOS v8.1.0 supports Get Fabric Object (GFO) command of the FC-GS-7 standard in the Management Server. This support provides the Fabric Configuration Server services to retrieve the following information.

- Fabric name(WWN)
- Priority supported
- Priority Range
 - Minimum range
 - Maximum range

SNMP

FOS v8.1.0 includes the following enhancements and changes for SNMP.

- Supports encryption option for SNMPv3 user authentication and privacy passwords.
- Supports new MIB objects to the table “fcipConnStatsTable” in brcdfcip.mib for Brocade 7840 and SX6 blade.

Read Diagnostics Parameter

FOS v8.1.0 includes the following enhancements for RDP.

- Supports the three new descriptors: buffer-to-buffer credit descriptor, optical element data descriptor, optical product data descriptor, in response to unsolicited request.
- Supports sending request through RLS when RDP is not supported by end devices.
- Support RDP request for E-ports in FICON environment.

Miscellaneous Enhancements

dlsshow Command

FOS v8.1.0 enhances the **dlsshow** command output when the 2-hop lossless feature is disabled.

Port Decommissioning RASLOG Message

FOS v8.1.0 adds the RASLOG message FSPF-1016 when a port decommissioning is executed via a user CLI command or as a MAPS action.

FC-4 Type Display by Name Server

FOS v8.1.0 enhances the Name Server device display output to include the FC-4 types of Application Services, NVMe, and various FICON (FC-SB) values.

Principal Switch Detect RSCN

FOS v8.1.0 supports the FC standard format Principal Switch Detect RSCN so that HBAs can register for these standard RSCN. Please refer to *FC-LS 3, Table -39 RSCN Event Qualifier Values*. The RSCN is delivered when principal switch or fabric name change occurs.

nsshow Command

FOS v8.1.0 enhances **nsshow** output for devices connected through Brocade Access Gateway. If a device connection to a FC fabric is through an Access Gateway, **nsshow** output will display the device with the information “Connected through AG: Yes”.

lscfg Command

FOS v8.1.0 enhances the **lscfg --create** command with a new option **-lisldisable**, which creates a new logical switch with the logical ISL (LISL) in disabled state. Administrators can use the **lscfg -lislenable** command to enable disabled LISL ports at a later time. FOS v8.1.0 also adds a new **-ficon** option with the **lscfg --create** and **lscfg --change** command.

Note: The **lscfg --change -ficon** option is introduced in a FOS v8.1.0a release.

IPv6 Gateway Manual Configuration

FOS v8.1.0 adds new option to **ipaddrset** command to manually configure an IPv6 gateway address for a switch’s management Ethernet interface.

Persistently Power-off/Power-on Slots

FOS v8.1.0 supports a new command **slotcfgpersistence** to set persistently power-on or power-off configuration of a slot on the DCX8510 and X6 platforms. Configuring a slot persistently power-off prevents a faulty blade from powered on after a chassis reboot.

Note: Persistently power-off an empty slot with this command is supported in FOS v8.1.0a or later releases.

Deprecated software features

The following software features are deprecated beginning with this release.

Administrative Domain

FOS v8.0.1 deprecated support for the Admin Domain feature. FOS v8.1.0 removes the configuration command for the Admin Domain feature.

CLI Changes

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

New Commands

The following commands are new in this release.

- appserver
- seccertmgmt
- slotcfgpersistence
- geportperfshow
- fpgaUpgrade

Modified Commands

Refer to the “Modified commands” section in the *Brocade Fabric OS Command Reference* supporting Fabric OS v8.1.0.

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 v8.1.0.

The following commands were previously undocumented, and have been deprecated in Fabric OS v8.1.0.

- acklistshow
- lsretranslistshow
- dbretranslistshow

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>.

Software License Support

Optionally Licensed Software

Fabric OS 8.1.0 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 10km of switched fabric connectivity at full bandwidth over long distances (depending on platform this can be up to 3000km).

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, 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 16Gbs or 32Gbs-capable port).

Integrated Routing Ports on Demand — This license allows any Fibre Channel port in a Brocade 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 32Gbs-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 1 GbE or 10 GbE 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 Gbps on a Brocade 7840. The base configuration for a Brocade 7840 without this license provides WAN throughput up to 5 Gbps.

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.

Temporary License Support

The following licenses are available in Fabric OS 8.1.0 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.

Hardware Support

Supported devices

The following devices are supported in this release:

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

Supported blades

DCX 8510-8/DCX 8510-4 blade support

Fabric OS v8.1.0 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	FOS v7.x. FOS v8.0.2 or later
FC8-32E, FC8-48E	FOS v7.x FOS v8.0.2 or later.
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.

X6-8/X6-4 blade support

Fabric OS v8.1.0 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.

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 Gbps. Otherwise, the optics will be faulted.

Supported power supplies

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

DCX8510-8 Power Supply Requirements

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

(For specific calculation of power draw with different blade combinations, please 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 8Gb or 16Gb ports with QSFP ICLs	FC16-32, FC16-64, FC8-32E	Port Blade	4 Power Supplies	2 Power Supplies	200-240 VAC: 1+1 Power Supplies 110 VAC: 2+2 ¹ Power Supplies
256 16Gb ports + QSFP ICLs	FC16-32, FC16-48 (Maximum of fully populated FC16-32)	Port Blade	4 Power Supplies	2 Power Supplies	200-240 VAC: 1+1 Power Supplies 110 VAC: 2+2 ¹ Power Supplies

¹ 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.

Hardware Support: Supported power supplies

	blades), FC16-64				Max 8 FC16-32 port blades
256 8Gb ports + QSFP ICLs	FC8-32E, FC8-48E (Maximum of fully populated FC8-32E blades)	Port Blade	4 Power Supplies	2 Power Supplies	200-240 VAC: 1+1 Power Supplies 110 VAC: 2+2 ¹ Power Supplies Max 8 FC8-32E port blades
192 16Gb 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
192 8Gb Ports & max 2 intelligent blades (FX8-24) with QSFP ICLs	FC8-32E, FC8-48E, 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 FC8-48E port blades and max 2 Intelligent blades
336 16Gb 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
336 8Gb ports + QSFP ICLs	FC8-48E (Maximum of seven FC8-48E 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 FC8-48E port blades
384 16Gb 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 16Gb 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
384 8Gb ports + QSFP ICLs	FC8-48E	Port Blade	4 Power Supplies	4 Power Supplies	200-240 VAC: For DCX 8510-8, four (2+2) ¹ 220 VAC Power Supplies are required

Any combination of 8Gb or 16Gb ports and intelligent blades with QSFP ICLs	FC16-32, FC16-48, FC8-64, FC8-32E, FC8-48E, 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 16Gb 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 16Gb 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

DCX8510-4 Power Supply Requirements

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, FC8-32E	Port Blade	2 Power Supplies	2 Power Supplies	1+1 redundancy with 110 or 200-240 VAC power supplies
Any combination of 8Gb or 16 Gb ports and intelligent blades with QSFP ICLs	FC16-32, FC16-48, FC16-64, FC8-32E, FC8-48E, FC8-64, FX8-24	Intelligent Blade / Combination	Not Supported	2 Power Supplies	200-240 VAC: 1+1 Power Supplies

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-RACNIPISU-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

X6-8 Power Supply Requirements

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) ¹	X6-8 @200-240 VAC (Redundant configurations) ¹
144 32 Gbps 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 Gbps ports + QSFP ICLs	FC32-48	Port Blade	Not Supported	3 or 4 Power Supplies (2+1 or 2+2 redundancy)
Any combination of 32 Gbps ports and Extension blades with QSFP ICLs	FC32-48 SX6	Port Blade Extension Blade	Not Supported	3 or 4 Power Supplies (2+1 or 2+2 redundancy)

X6-4 Power Supply Requirements⁴

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) ²	X6-4 @200-240 VAC (Redundant configurations) ²
Any combination of 32 Gbps ports and Extension blades with QSFP ICLs	FC32-48 SX6	Port Blade Extension Blade	Not Supported	2 Power Supplies (1+1 redundancy)

¹ 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.

² 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.

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.

Software Upgrades and Downgrades

Image filenames

Download the following images from www.brocade.com.

Image filename	Description
v8.1.2a.zip	Fabric OS v8.1.2a for Windows
v8.1.2a_tar.gz	Fabric OS v8.1.2a for Linux
v8.1.2a.md5	Fabric OS v8.1.2a Checksum
v8.1.2a_all_mibs.tar.gz	Fabric OS v8.1.2a MIBs
v8.1.2a_releasenotes_v1.0.pdf	Fabric OS v8.1.2a Release Notes v1.0

Migration Path

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

Note: Non-disruptive firmware upgrade from FOS v8.1.0 to FOS v8.1.2a on Brocade G610 is not supported.

Migrating from FOS v8.0.1

Any Brocade platform running any FOS v8.0.1 firmware can be non-disruptively upgraded to FOS v8.1.2a.

Migrating from FOS v8.0.0

Brocade G620 running FOS v8.0.0 firmware cannot be non-disruptively upgraded to FOS v8.1.0 or later directly. Brocade G620 must be upgraded to FOS v8.0.1 or later before it can be non-disruptively upgraded to FOS v8.1.0 or later. Brocade G620 running FOS v8.1.0 or later must be non-disruptively downgraded to FOS v8.0.1 or later before non-disruptively downgraded to FOS v8.0.0.

Migrating from FOS v7.4

Any Brocade 16G (Gen 5) platform and all blades in the “Supported Blades” table running any FOS v7.4 firmware must be upgraded to FOS v8.0.x firmware before it can be non-disruptively upgraded to FOS v8.1.1a. For a DCX8510 with FC8-64, FC8-32E, or FC8-48E blades running any FOS v7.4 firmware, it must be upgraded to FOS v8.0.2 or later firmware before it can be non-disruptively upgraded to FOS v8.1.2a.

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 v8.1.2a are allowed and supported from FOS v7.4.x (up to a two-level migration) using the optional “-s” parameter with the “firmwaredownload” command.

Limitations and Restrictions

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.brocade.com.

Compatibility/interoperability

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 14.2.1 is available in the following editions:

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

For SAN Management, Network Advisor 14.2.1 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 14.2.1 Release Notes, Network Advisor 14.2.1 User Guide, and Network Advisor 14.2.1 Installation, Migration, & Transition Guides.

Notes:

- Brocade Network Advisor 14.2.1 or later is required to manage switches running Fabric OS 8.1.1 or later. Brocade Network Advisor 14.2.0 or earlier cannot manage switches running Fabric OS 8.1.1 or later.

- The Brocade Network Advisor seed switch should always have the highest FOS version used in the fabric.

WebTools Compatibility

Fabric OS 8.1.1 is qualified and supported with Oracle Java version 8 update 131. Please refer to the “Other Important Notes and Recommendations” section for more details.

SMI Compatibility

It is important to note that host SMI-S agents cannot be used to manage switches running Fabric OS 8.1.0. If you want to manage a switch running Fabric OS 8.1.0 using the SMI-S interface, you must use Brocade Network Advisor’s integrated SMI agent.

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: <http://www.brocade.com/en/support/product-end-of-life.html>

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 ¹
Brocade DCX/DCX-4S with FA4-18 blade(s)	No support for interoperability in the same fabric — must use FCR ²
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

¹ Brocade 8000 is not supported with Fabric OS v7.2.x or later.

² FA4-18 is not supported in a DCX/DCX-4S that is running Fabric OS v7.0 or later.

Brocade 6510, 6505, 6520, 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 ¹
Brocade G610	FOS v8.1.0 or later
Brocade G620	FOS v8.0.0 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 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

SNMP Support

Fabric OS 8.1.0 documents the supported MIBs in the *MIB Reference Guide* supporting Fabric OS 8.1.0. 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 8.1.0.

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. Click the downloads tab.
4. On the downloads tab, under Product Downloads, select All Operating Systems from the Download by 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.

¹ Support merged from embedded FOS releases.

Important Notes

MAPS

- The creation of rule-on-rule is supported with FOS v8.1.0a or later.
- An empty MAPS policy, i.e. a policy without rules, should not be created in 8.1.0a. Otherwise, a firmware downgrade to an earlier release will cause MAPS daemon to crash. While this defect is fixed in 8.0.2b, a subsequent downgrade to 8.0.1x will cause the MAPS daemon to crash.

VM Insight

- VM Insight is supported on Brocade G610, G620, 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.
- FOS v8.1.0 supports VM Insight with the following adapters on VMWare ESX servers:
 - Cavium (QLogic) Gen 6 (32Gbps) adapters on ESX 5.5/6.x servers with adapter firmware version 8.5.4 or later.
 - Broadcom (Emulex) Gen 6 (32Gbps) adapters on ESX 6.x servers with adapter firmware version 11.2.156.27 and later.
- FOS v8.1.0 supports up to 1008 Application IDs for each N_Port ID.
- VM Insight is not supported across FCR but frames with Application Header may traverse through FCR.
- FOS v8.1.0 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.

In-flight Encryption and Compression

- Fabric OS 8.1.0 does not support in-flight encryption on Brocade G620. But in-flight compression is supported on Brocade G620.
- In-flight encryption and compression are supported on 6510, 6520, DCX 8510, and X6 platforms in FOS v8.1.0.

ClearLink Diagnostics (D_Port)

- Fabric OS 8.1.0 supports D_Port tests between two Brocade switches and between Brocade switches and Gen 5 (16 Gbps) and Gen 6 (32 Gbps) Fibre Channel Adapters from QLogic and Emulex. Following are specific adapter models and driver versions tested by Brocade with Fabric OS v8.1.0 for ClearLink, with the exception of D_Port test between Brocade G610 and Emulex adapters.

	Emulex 16G Adapter	Emulex 32G Adapter	QLogic 16G Adapter	QLogic 32G Adapter
Adapter Model	LPe16002B-M6	LPe32000 (LPe31002-M6)	QLE2672	QLE2742
Adapter Firmware	11.1.217.0	11.1.212.0	v8.03.06	v8.03.07
Adapter Driver	11.1.145.16	11.1.145.16	STOR Miniport 9.2.1.20	STOR Miniport 9.2.1.20

- D_Port support between Brocade G610 and Emulex 16Gbps and 32Gbps adapters will be available in a future Emulex adapter firmware release.
- The D_Port long duration test can only be run on one port at a time.
- Long-duration optical loopback tests can be run on only one port at a time.
- Long-duration electrical loopback tests are not supported.
- The electrical loopback and optical loopback tests of D_Port test for SmartOptics 16G-ER-BR2 is 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
 - D_Port test should be performed only on one user port at a time in these modules
 - Dynamic or On-Demand D_Port is not supported on the user ports in these modules
 - Brocade Network Advisor 14.3.0 does not support D_Port test on the user ports in these modules from BNA
- 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.

Forward Error Correction (FEC)

- FEC is mandatory with Gen 6 Fibre Channel operating at 32 Gbps. This means that the **portcfgfec** command only applies to ports running at 16 Gbps or 10 Gbps.
- FEC capability is not supported with all DWDM links. This means that FEC may need to be disabled on 16 Gbps or 10 Gbps 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.

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.

Ingress Rate Limiting

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

Ethernet Management Interface

- Enabling IPsec on management interface is not supported on Brocade G620 switches. The **ipseconfig** 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 Gbps forced-speed and fails to establish a link, Brocade recommends using a cross-over cable.
- If a Brocade switch management interface is running at 10Mbit/sec, certain FOS operations such as **firmwaredownload** may fail.
- The 10 Gbps 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.

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
```

Brocade Analytics Monitoring Platform

- FOS v8.1.0a 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, G620, G610, X6
- 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 hfailover 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 hfailover or hareboot
 - Disable and then enable the AF_Port on the Analytics Monitoring Platform
 - Deactivate vTap flow before firmware download, hfailover, 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, 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”.
- After a **slotpoweroff** and **slotpoweron** a blade in an X6 director with an AE_Port, a vTap mirrored flow may stop but the number of mirrored frames may continue incrementing. To recover from this condition, port disable and enable the AE_Port, or de-activate and activate the vTap flow. This is tracked as defect 603698.
- 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.

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:
 1. Disable all flows in the logical switch.
 2. Delete the problem flow.
 3. Create a new flow to replace the problem flow.
 4. Activate the new replacement flow.
 5. Verify the new replacement flow.
 6. Enable all other flows.
- IO Insight metrics are supported on ingress and egress ports on Brocade X6 and on egress ports on Brocade G620 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.

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).

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 62C degree 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 Gbps, 32 Gbps, or ASN.
- When zoning database size exceeds the maximum supported limit, 2MB for directors and 1MB 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 4x16GFC in an ICL of DCX8510. The speed must be set to 16Gbps fixed.
- FOS v8.1.0b and later provides a fix for defect 635286 where error counters increments while traffic is running through 2km 4x16G QSFP on ICL in DCX8510. After DCX8510 is upgraded to a FOS version with the fix, the ICL ports connected through the 2km 4x16G QSFPs on both end of DCX8510 need to be disabled and enabled for the fix to take effect. In rare instances, ICL ports connected with 2km 4x16G QSFP may go to “insync” state after a reboot or port toggle. If this is encountered, the ICL ports can be disabled and enabled again to recover.

Defects

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

Closed with code changes in FOS 8.1.2a

Defect ID:	DEFECT000656422		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management GUI
Reported In Release:	FOS8.2.0	Technology:	Management
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:	<ul style="list-style-type: none"> • 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. • 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 		

Closed with code changes in FOS 8.1.2

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: DEFECT000608997	
Technical Severity: High	Probability: Medium
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: 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 (portcfgtdz -disable *) is ran on all ports of the switch. The issue is NOT seen if only a few ports are disabled.	

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: 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: 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: 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 "sfpshow" 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 porterrshow 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: 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: 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.	

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: 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). <p>Once the E-Port becomes buffer limited "mapsdb --show all " reports the switch status as HEALTHY instead of MARGINAL.</p>	

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: 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: 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: 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: 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: 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: DEFECT000632637	
Technical Severity: High	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: 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 unroutable 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: 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: 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: 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: 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: 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.	

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: DEFECT000638991	
Technical Severity: High	Probability: Medium
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 hafailover could trigger this issue.	

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: 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: 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: 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.	

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: 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: 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.	

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: DEFECT000641724	
Technical Severity: High	Probability: Medium
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 mailto:user-name@domain.com format and weblinker.fcg encounters a panic.	
Condition: This is encountered when fabric discovery is done through BNA using mailto:user-name@domain.com format.	
Workaround: Use UPN only for username in BNA discovery.	

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: <pre> ** 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. *</pre>	
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: DEFECT000643020	
Technical Severity: High	Probability: Medium
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: 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: 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: 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.	

Defect ID: DEFECT000643776	
Technical Severity: Medium	Probability: Medium
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 mixed FOS versions of 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: 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	
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 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: DEFECT000645782	
Technical Severity: Medium	Probability: High
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: Medium
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. Thus 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: 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: DEFECT000646305	
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: 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: 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: 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: 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: 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: <ol style="list-style-type: none"> 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: 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. <p>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.</p> <p>Monitor XTUN-1008 RASLOGs and adjust configuration as necessary.</p>	

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: 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 User may also encounter switch panic following the repeated logging of Raslog C4-1010.	
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.	

Defect ID: DEFECT000647952	
Technical Severity: Medium	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: 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 hfailover 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: 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: 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: DEFECT000651983	
Technical Severity: Medium	Probability: High
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: 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: No action needed for a port that has never gone through D-port testing. For a port that has gone through D-port testing, after upgrading the code to a release with fix, run: portdisable <port> portdporttest --reset -module <port> portenable <port>	

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: DEFECT000653457	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.4.2	Technology: FCIP - Fibre Channel over IP
Symptom: Firmwaredownload 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	

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: 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: <ul style="list-style-type: none"> • No action is needed if the director was never upgraded/downgraded between FOS v8.0.x and v8.1.x. • 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. 	
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	

Closed with code changes in Fabric OS 8.1.1

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of June 12, 2017 in version 8.1.1.

Defect ID: DEFECT000542251	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.1.2	Technology: NTP - Network Time Protocol
Symptom: Customer would not be able to block the NTP update using Ipfiler rules for IPv6 NTP server address.	
Condition: Applicable for IPv6 Network. Configure Ipv6 address on both switch and NTP server, block port 123 as destination port through ipfilter and activate the ipfilter policy.	

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: DEFECT000593783	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: D-Port - Diagnostic Port

Symptom: DPort test starts without any Fabric Vision license but it should not start with out the license
Condition: Unexpected behavior when running D Port tests and no Fabric Vision license is installed.
Workaround: Reboot

Defect ID: DEFECT000604071	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.2.1	Technology: Fabric Watch
Symptom: Logs in DP's RAS_PRE.txt is incomplete.	
Condition: This issue is seen rarely while collecting supportsave from BR7800.	

Defect ID: DEFECT000605675	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Hardware Monitoring
Symptom: Port Status in the Logical Switch is white not Green on WEBTools even though it's healthy. And in the "portshow" output, "portHealth" value isn't shown in the Default switch once Logical switches created.	
Condition: Issue seems to manifest both in CLI and in GUI when the port is in an Logical Switch, and only reproduced in FOS v8.0.1x.	

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: DEFECT000611335	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.3.2	Technology: HTTP/HTTPS
Symptom: Using Webtools with HTTPS/FQDN support requires the new certificate to be generated and using certificates generayed using commoncertall is not supported.	
Condition: This issue occurs only with FOS v732, v741d, v801 and v802.	

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: The WWN Based Persistent PID feature is enabled. The address mode on the partition (logical switch) is either Zero Based or Port Based Area Assignment. 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. Different ports are moved into the partition, come online, but the devices are not able to login. Hafailover/hareboot occurs.	
Workaround: Move ports (and their devices) back into the partition that were there originally.	
Recovery: Remove all files matching the following on all CPs: /etc/fabos/port2BoundAreaMap* /mnt/etc/fabos/port2BoundAreaMap* Cold reboot all CPs.	

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.	

Defect ID: DEFECT000618536	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Management GUI
Symptom: "PCS Block Errors" and "Power On Time" details not shown for 32G switches in WebTools.	
Condition: Using WebTool on 32G switch.	

Defect ID: DEFECT000620494	
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: 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: 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: 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: 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: 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.	

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 rped attributes, even though rped 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: 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.	

Defect ID: DEFECT000627135	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: High Availability
Symptom: Kernel panic while processing media message.	
Condition: Null pointer access during HA when there is transient I2C bus access failure.	

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: 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.	

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: 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: 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: 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: DEFECT000633179	
Technical Severity: Medium	Probability: High
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: High
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 also 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: 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: 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: 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: 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: 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: 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: 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 others may be observed. In some cases the switch may also panic when attempting to read from non qualified QSFPs.	
Condition: Installing an 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: 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 after upgrade to avoid memory leak.	

Closed with code changes in Fabric OS 8.1.0b

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of May 1, 2017 in version 8.1.0b.

Defect ID: DEFECT000607458	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0b	Technology Area: SNMP – Simple Network Management Protocol
Symptom: User is able to see community string details in Snmconfig.html file from WT supportsave.	
Condition: This is an issue with Webtools supportsave.	

Defect ID: DEFECT000626959	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology: Monitoring
Reported In Release: FOS8.1.0	Technology Area: Management
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.	

Defect ID: DEFECT000627826	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0	Technology Area: CLI - Command Line Interface
Symptom: Chassis Role:user allows sysShutDown command to be run.	
Condition: User account is allowed to execute the "sysshutdown" command when the role of the chassis level user is configured.	

Defect ID: DEFECT000630820	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology: Management
Reported In Release:	Technology Area: Management GUI
Symptom: WebTools supportsaves collects files not accessible by non-Admin users.	
Condition: When WebTools supportsaves collect by a non-Admin user.	
Defect ID: DEFECT000633978	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology: Extension
Reported In Release: FOS8.1.0	Technology Area: Inband Management

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: DEFECT000635739	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology: Management
Reported In Release: 8.0.2	Technology Area: 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.	

Closed with code changes in Fabric OS 8.1.0a

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of February 28, 2017 in version 8.1.0a.

Defect ID: DEFECT000606375	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology: Monitoring
Reported In Release: FOS8.0.1	Technology Area: 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: DEFECT000610499	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology: Monitoring
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000616744	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0	Technology Area: Inband Management
Symptom: User daemon terminated after reading a corrupted frame buffer caused switch panic	
Condition: During race condition when there is frame trapped to CPU for handling or when there is multi-frame sequence received out of order	
Defect ID: DEFECT000619717	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0	Technology Area: SNMP - Simple Network Management Protocol
Symptom: Customer may not be able to set Forwarding from notforwarding using SNMP browser.	
<pre> ***** SNMP SET-RESPONSE START ***** Error: Wrong value Error index: 1 1: ipForwarding.0 (INTEGER) forwarding(1) ***** SNMP SET-RESPONSE END ***** </pre>	
Condition: Observed while changing switch mode from Forwarding to notforwarding.	
Defect ID: DEFECT000620319	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology: Security

Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000622664	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology: Traffic Management
Reported In Release: FOS8.1.0	Technology Area: Port Bring-up
Symptom: No_Sync on G610 ports configured as fixed 16G port.	
Condition: Occasionally seen when G610 ports configured as fixed 16G and connect to 32G auto speed negotiate.	
Workaround: Reconfigure the 32G ASN port by issuing CLI portcfgspeed <pt> 0 -m 16.	
Recovery: Port toggle recovers the port.	
Defect ID: DEFECT000623551	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology: Monitoring
Reported In Release: FOS8.1.0	Technology Area: 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: Extension
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000623780	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology: Monitoring
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000624845	
Technical Severity: Medium	Probability: Medium

Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.0.2	Technology Area: 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: Management
Reported In Release: FOS8.1.0	Technology Area: 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	
Defect ID: DEFECT000625249	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology: Monitoring
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000625698	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology: Monitoring
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000625879	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology: Security
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000626447	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000626676	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000626833	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000627130	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000627207	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000627440	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000627488	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS8.1.0	Technology Area: CLI - Command Line 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: DEFECT000627572	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology: Monitoring
Reported In Release: FOS8.1.0	Technology Area: 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: Monitoring
Reported In Release: FOS8.1.0	Technology Area: 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: Management
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000627794	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology: Monitoring
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000628189	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology: Security
Reported In Release: FOS8.1.0	Technology Area: SSH - Secure Shell
Symptom: SSH connection to G610 switch will occasionally fail.	
Condition: Sometime SSH connection with public key (password less login) may fail to login to G610 switch. This condition is rarely to happen.	
Workaround: Disconnect and establish the connection again.	
Defect ID: DEFECT000628484	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology: Monitoring
Reported In Release: FOS8.1.0	Technology Area: 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: DEFECT000629335	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology: Extension
Reported In Release: FOS7.4.1	Technology Area: FCIP - Fibre Channel over IP
Symptom: Reduced performance between FCIP connected SID/DID pairs and presence of repeated fabric rejects for ELS PLOGI, RNID and PDISC sequences through the configuration.	
Condition: FCIP configuration in a VF environment with a mixture of fabrics that do and do not include zoning enforcement.	

Closed with code changes in Fabric OS 8.1.0

This section lists software defects with Critical, High, and Medium Technical Severity closed with a code change as of December 14, 2016 in version 8.1.0.

Defect ID: DEFECT000418780	
Technical Severity: Low	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.1.0	Technology: SNMP - Simple Network Management Protocol
Symptom: Single event in the switch triggers more than expected number of traps sent to the trap receiver.	
Condition: 1. Need to configure same trap receiver IP address multiple times in the trap configuration. 2. Use snmpsendtraps test command to send the traps.	
Workaround: Configure only one trap receiver for the given trap receiver IP, to avoid duplicate traps being sent.	

Defect ID: DEFECT000506068	
Technical Severity: Low	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.1.2	Technology: Configuration Fundamentals
Symptom: CLI chassiscfgperrthreshold parameter settings are not saved to configuration, for parameters such as: system.perrFaultFlg and system.perrThreshold. Though the setting is in effect and persists through cold boot, but CLI, such as configshow or configdownload, show the value as 0.	
Condition: This issue is seen when enabling parity threshold using CLI chassiscfgperrthreshold.	

Defect ID: DEFECT000536439	
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: Switch panic after reaching out of memory (OOM) condition.	

Condition: Misbehaving device is sending a zero-length frame at the end of a multi-frame sequence of FC frames.

Defect ID: DEFECT000539134	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.1.1	Technology: Fibre Channel Routing
Symptom: When observing portershow and portperfshow on E_Ports to an embedded switch, the throughput is observed to not be evenly distributed. The distribution appears to be 2:1 ratio.	
Condition: Exchange-based routing configured when incoming data to local switch is arriving on two ISLs. The incoming data is routed to two ISLs (the two ISLs showing the imbalance).	
Workaround: Add an additional ISL or trunk the existing links.	

Defect ID: DEFECT000540101	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.2.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: SNMP query reports a fan speed of 0.	
Condition: Erroneous fan speed report occurs only when switch hits transient I2C failure and it will be recovered automatically.	

Defect ID: DEFECT000549856	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Other
Reported In Release: FOS7.4.0	Technology: Other
Symptom: When a Quarantined port is moved out of the current Logical Switch, the port is listed as -1/-1 in the output of 'sddquarantine --show' executed in the current Logical Switch	
Condition: Moving a quarantined port in disabled state to a different Logical Switch in a chassis based switch	
Workaround: Remove the port from quarantined state using sddquarantine --clear <slot/port> before moving the port to a different logical switch	

Defect ID: DEFECT000559528	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: MAPS traps are not sent as part of snmpTraps --send (test traps) command.	
Condition: All FOS platforms with MAPS enabled are affected. FOS 7.4 and above there is no support for Fabric Watch or MAPS traps in snmptraps command.	

Defect ID: DEFECT000561871	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: Fibre Channel Services
Symptom: If the portEportCredits and portFportBuffers are set on ports using these respective CLI commands, then performing a configdownload that does not include these 'keys' results in the ports being set back to the default setting.	
Condition: This occurs upon configdownload of a configuration file with portEportCredits and portFportBuffers keys absent.	
Workaround: Do not remove port eportcredits and fportbuffers configuration from the configdownload configuration file.	
Recovery: Reconfigure the impacted ports by invoking portEportCredits and portFportBuffers CLI commands.	

Defect ID: DEFECT000561914	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.3.0	Technology: User Accounts & Passwords
Symptom: The description of userconfig -d is specified in the man pages and documentation to be 40 characters, but is actually only 32 characters.	
Condition: This is specific to the CLI command userconfig -d	

Defect ID: DEFECT000563629	
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: One or more IPSec enabled FCIP circuits may continuously bounce or go down and not recover. The affected DP will report Authentication Tag Mismatch errors continually.	
Condition: This may be encountered when IPSec is enabled on an FCIP tunnel between a pair of FX8-24 blades.	
Recovery: Reboot the affected FX8-24 blade.	

Defect ID: DEFECT000563757	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: Access Gateway
Symptom: After a hard power off the server, HBA port remains online in Brocade 5450 switch running in AG mode.	
Condition: This issue will be observed when Brocade 5450 in AG mode is connected to an HBA port and the server connected via that port is powered off.	

Defect ID: DEFECT000564334	
Technical Severity: Low	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: MAPS indicates the switch state is marginal if only one power supply unit is present on Brocade 6505.	
Condition: This is only applicable to Brocade 6505 switch.	
Workaround: This erroneous message may be ignored.	

Defect ID: DEFECT000564450	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.0	Technology: Management GUI
Symptom: After using "seccertutil import -config cacert" to import an SSL CA cert in .cer (binary) format, HTTPD fails to start and hareboot fails with a message "system is not ready yet or other LS/HA config is in progress, rc = -1".	
Condition: This may be encountered when using Windows Active Directory (AD) Server Certificate Authority (CA) to sign the CSRs and import the Windows AD Sever CA cert into the switch.	
Workaround: CA certificate is allowed only with the base64 encoded certificate along with .pem extension.	

Defect ID: DEFECT000564909	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: CLI - Command Line Interface
Symptom: Switches upgraded to FOSv7.x firmware from FOSv6.4.x with long distance ISLs configured will see "Desired Buffers = 0" in portshow output instead of the configured distance.	
Condition: This issue is seen in the output of the CLI command portshow, on all platforms upgraded from FOSv6.4.x with Long distance ISLs configured. However, the ISL itself is correct and functional.	
Workaround: Use portbuffershow CLI to view the correct distance/buffer as configured.	

Defect ID: DEFECT000566393	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.0	Technology: Flow Vision
Symptom: Unable to configure a SIM port when QOS is enabled.	
Condition: When a port has QOS enabled, the SIM port enablement will fail	
Workaround: Disable QOS on the port, then enable SIM port, followed by re-enable QOS.	

Defect ID: DEFECT000566919	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.0	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: The audit log message "SULB-1001" will not be shown after firmware upgraded to new version.	
Condition: Configure and enable audit filter for firmware class. Then Upgrade firmware from one version to another. After the firmware download is complete, the audit log SULB-1001 message will not be shown.	
Workaround: Use "errdump" to see the "SULB-1001" message as a RAS log message.	

Defect ID: DEFECT000567733	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: After an upgrade to Fabric OS v7.4.x, MAPS may stop working and HA Sync may be lost on a director switch.	
Condition: This is seen only after an upgrade to FOS version v7.4.x from FOS versions v7.3.x or lower under the following conditions: <ul style="list-style-type: none"> 1. Time base values in Fabric Watch are set to any value other than "none" for the FABRIC class. 2. And these Fabric Watch thresholds are converted to MAPS rules using "mapsconfig --fwconvert" command before the FOS upgrade occurs. 	

Defect ID: DEFECT000567870	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.0	Technology: Management GUI
Symptom: "IP filter operation is not allowed in this switch instance" error message when configuring an IP filter	
Condition: When an IP Filter configuration is performed on logical switch context	

Defect ID: DEFECT000571469	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.1	Technology: Hardware Monitoring
Symptom: Dual CP rolling reboots might occur when there is a bad blade inserted in the chassis.	
Condition: Presence of bad C3 blade that fails PCI scanning in chassis based systems might result in Rolling Reboot.	

Defect ID: DEFECT000572038	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.1.1	Technology: SSH - Secure Shell
Symptom: Authorized keys were deleted after distributing the PWD policy across the fabric.	
Condition: While distributing the PWD policy using distribute -PWD command,	

Defect ID: DEFECT000573229	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.2.1	Technology: TIZ - Traffic Isolation Zoning
Symptom: Invalid TI zones constraints may affect traffic on other ports.	
Condition: This occurred when user created invalid TI zone configuration which did not include all member of the trunk group in the TI zone.	
Recovery: Delete the invalid TI Zone and toggle effected ports	

Defect ID: DEFECT000573714	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: Fibre Channel Services
Symptom: Response to Management Server queries for Get Port List may be incomplete.	
Condition: This may be encountered while trying to get the port list by using the switch wwn	

Defect ID: DEFECT000575054	
Technical Severity: Low	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.2.1	Technology: Configuration Fundamentals
Symptom: Configuring a host name longer than 31 characters causes blank host name and the user cannot update host name any further.	
Condition: This occurs when a host name longer than 31 characters is configured.	
Recovery: FTP or scp /etc/hosts from the switch, edit it manually and ftp/scp it back to the switch to fix the impacted hosts (This does require root access).	

Defect ID: DEFECT000575105	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: Switch could go out of memory if user creates thousands of MAPS rules.	
Condition: This is rare condition and should not happen in normal situation.	

Defect ID: DEFECT000575837	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.1	Technology: APM - Advanced Performance Monitoring
Symptom: 'Port Snapshot Error ' screen on WebTools performance graphs indicates a number of CRC errors graphically, but the 'tool tip' when hovering the mouse over the error indication still lists 0.0 frames / sec.	
Condition: When using WebTool tool tip.	

Defect ID: DEFECT000575899	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: SNMP - Simple Network Management Protocol
Symptom: SNMP requests from BNA are sent to the chassis IP address but the switch responds back with the active CP IP. This may lead to BNA discovery issues.	
Condition: This issue will be seen on director class products only.	

Defect ID: DEFECT000576048	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: CLI - Command Line Interface
Symptom: Switch panic after an invalid input parameter to a CLI command.	
Condition: This occurs if the user inputs invalid blade port number to "creditrecovmode --check" CLI command.	
Workaround: Do not enter invalid input.	

Defect ID: DEFECT000576361	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.2.1	Technology: ACLs - Access Control Lists
Symptom: FCS and SCC Policies in fabric disappear when changes are made to DCC policy.	
Condition: This behavior is seen in all platforms when setting the fabric data distribution configuration to SCC,DCC and FCS.	

Defect ID: DEFECT000576382	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.0	Technology: Management GUI
Symptom: User is not able to disable QoS configuration of ports when multiple Auto Enabled QoS Ports are selected in WebTools	
Condition: When multiple Auto Enabled QoS Ports are selected	
Workaround: Disable one port at a time	

Defect ID: DEFECT000577234	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: Management GUI
Symptom: User cannot login via web tool	
Condition: This issue is encountered when FID is swapped between default and other logical switch and login to default switch via WebTools using user whose home LF is 128.	

Defect ID: DEFECT000578031	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.0	Technology: D-Port - Diagnostic Port
Symptom: The user may observe a difference in estimated buffers required between the output of command "portDportTest --show" and "portBufferShow".	
Condition: With a long distance link connected through a DWDM box, the user may observe a difference in required buffers between the output of command "portDportTest --show" and "portBufferShow".	

Defect ID: DEFECT000578229	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.4.0	Technology: QoS - Quality of Service
Symptom: Frame prioritization may not be effective in device applications even though CSCTL configuration is enabled for the switch and ports.	
Condition: This is a rare occurrence that may be encountered on a switch or chassis in a FICON environment.	

Defect ID: DEFECT000578556	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.2.1	Technology: Extended Fabrics
Symptom: Detected termination of iswitchd and switch panic.	
Condition: This may be encountered upon receiving ELS (ADISC) ACC frame with invalid size from devices.	
Workaround: Disable misbehaving 3rd party device.	

Defect ID: DEFECT000578895	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS6.3.2	Technology: NTP - Network Time Protocol
Symptom: NTP server details may not be propagated when an edge switch is attached	
Condition: This may be encountered while doing portdisable and portenable frequently.	

Defect ID: DEFECT000579051	
Technical Severity: Low	Probability: Low
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: AAA - Authentication, Authorization, and Accounting
Symptom: Observed "Permission Denied" while executing the command apploginhistory with option "show" for the roles Admin and Factory.	
Condition: This occurs when CLI command "apploginhistory --show" is invoked.	

Defect ID: DEFECT000580692	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.3.1	Technology: FCIP - Fibre Channel over IP
Symptom: BR7800 failed to come online after logging diagnostic failure.	
Condition: Timing issue caused by fcipathtest as part of diag POST on BR7800	
Workaround: Disable POST.	

Defect ID: DEFECT000581219	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: SNMP - Simple Network Management Protocol
Symptom: SNMP get/getnext walk fails.	
Condition: When the SNMP access control list is configured with an invalid IP address	
Workaround: Remove the invalid IP address entry in the SNMP access control list.	
Recovery: Remove the invalid IP address entry in the SNMP access control list.	

Defect ID: DEFECT000581254	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: SNMP - Simple Network Management Protocol
Symptom: User is unable to change mib capability i.e Action to enable or disable a MIB/TRAP fails.	
Condition: This issue is seen on all platforms with FOS v7.4 and above when the user tries modifying mibcapability.	

Defect ID: DEFECT000582386	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: Extended Fabrics
Symptom: The GE ports of the SX6 extension blade displays the port state as "No_Light" rather than "Mod_Inv" when a 32G SFP+ is inserted	
Condition: When a 32G SFP+ is inserted into the GE port of a SX6 extension blade.	

Defect ID: DEFECT000582539	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.3.1	Technology: Fibre Channel Routing
Symptom: After a link reset on an inter fabric link (IFL) or the trunk master of an IFL trunk on a Fibre Channel Router (FCR) switch, traffic through the IFL or IFL trunk is halted.	
Condition: This occurs after a hareboot or hafailover on an 8G FCR switch, followed by a link reset on an IFL or an IFL trunk master, then traffic can no longer flow through the IFL. If a fabric only has devices with proxy IDs that have Domain ID of 3 or every fourth ID after that (Ex: 3, 7, 11, 15, etc.), then the fabric is not impacted. 16G FCR switches are not impacted.	
Recovery: portdisable/portenable IFL or the full IFL trunk.	

Defect ID: DEFECT000583512	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.0	Technology: Management GUI
Symptom: The switch Administration dialog uses Bandwidth and provides no clue if it is uni-directional or bi-directional bandwidth.	
Condition: The Switch Administration dialog in WebTools doesn't provide details if the bandwidth is uni-directional (Tx or Rx) or bi-directional (Tx + Rx) bandwidth similar to command line interface.	

Defect ID: DEFECT000583693	
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 circuit spillover feature may not meet expectations	
Condition: When the tunnel's bandwidth is not fully saturated or utilized. As in the case a tunnel's throughput is below the configured bandwidth and the bandwidth is modified, the actual throughput may move in the opposite direction from the bandwidth value modified. The bandwidth of a tunnel can change based on the circuit's bandwidth changing, tunnel's load-level algorithm changing, and/or the metric of a circuit changing.	
Workaround: There is no predictable configuration since the host application's configured block sizes and outstanding I/Os can vary	

Defect ID: DEFECT000585585	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: D-Port - Diagnostic Port
Symptom: Spinfab test may fail to run successfully on ports configured as D-ports when attached to a QLogic HBA. Functionality of the switch is not affected	
Condition: Spinfab failure maybe observed when running on a port configured as D-port attached to a QLogic HBA with "-fports 1" option	

Defect ID: DEFECT000585875	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: System-defined flow does not collect flow monitor stats for F-port trunks.	
Condition: When a system defined flow "sys_mon_all_fport" is activated on a switch which has F-port trunk. After a few portdisable/portenable of the slave ports, it has been observed that stats are not displayed for master F-port.	

Defect ID: DEFECT000586141	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: High Availability
Symptom: CP goes for reboot after ASSERT on new Active CP after hafailover.	
Condition: This issue occurred during stress test with hafailover on full populated X6-8 chassis in large fabric with lot of devices.	

Defect ID: DEFECT000587033	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Configuration Fundamentals
Symptom: A switch panic may be seen when Spinfab is disrupted while in progress.	
Condition: The panic is seen only when all ports or the switch are manually disabled while D-Port or Spinfab (online tests) are running. Note that such manual disabling of ports/switch is not recommended while these tests are in progress.	

Defect ID: DEFECT000587351	
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: Failed FCIP I/O (FICON or FCP) sequences. IFCCs on server console or errors on FCP imitators. FTRACE analysis shows duplicate FC frame sequences and missing sequences.	
Condition: During traffic burst, over BR7840 FCIP Tunnel.	

Defect ID: DEFECT000587533	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: D-Port - Diagnostic Port
Symptom: When the D-Port test is run on a range of ports containing more than 30 ports, the D-Port test may occasionally fail on one port.	
Condition: The issue occurs only when the D-Port test is run simultaneously on more than the recommended number (8) of ports.	
Workaround: Rerun the D-Port test on the failed ports.	

Defect ID: DEFECT000589602	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.0	Technology: Virtual Fabrics
Symptom: After a flooding of Class 2 FICON frames hit switch CPU, various symptoms may be encountered, such as: CP cards cannot initialize FOS or loss of Logical switch configuration.	
Condition: This may occur in FICON setup where device floods switch with class 2 RNID frames at a high rate.	
Workaround: Disable ports that send switch flooding frames.	
Recovery: Recreate missing FID after rebooting switch.	

Defect ID: DEFECT000590383	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.3.1	Technology: Fabric Authentication
Symptom: Certain devices are denied access to login to the switch when they have a DCC policy configured with proper WWNs.	
Condition: This may occur when either of the WWN words have the most significant bit set. For example WWNs like c0:xx:xx:xx:xx:xx:xx:xx or xx:xx:xx:xx:c0:xx:xx:xx might see this problem when DCC is configured.	

Defect ID: DEFECT000590397	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Management GUI
Symptom: In WebTools, the list of users is not displayed instead user sees "fatal: Null Pointer Exception" error.	
Condition: It occurs when Users tab is launched from Switch Admin in WebTools	

Defect ID: DEFECT000590472	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: Sort by option for flow show in sys_mon_all_fports does not take the SID column into consideration.	
Condition: When 'flow --show sys_mon_all_fports -sortby column2' CLI is executed, it takes the DID column to sort the output instead of the SID column.	

Defect ID: DEFECT000590689	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.3.2	Technology: Security Policies
Symptom: When "seccertutil genscr" is executed to generate CSR file, unneeded integer number is displayed between "Generating CSR, file name is:" and "Done." messages.	
Condition: This issue is seen on all platforms running FOSv7.3.2 but there is no functional impact.	

Defect ID: DEFECT000590780	
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: During a reboot operation, there are rare instances of internal blade port bring up failures resulting in the switch becoming faulty.	
Condition: During a reboot operation, in rare instances the switch becomes faulty.	

Defect ID: DEFECT000590890	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: Maps CIR_UTIL violation may display large % value in configurations having 8 logical switches.	
Condition: Extension Service Module may run out of resources when an IPEX tunnel in the base switch is shared by multiple logical switches	

Defect ID: DEFECT000590931	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Software Installation & Upgrade
Symptom: System checks during firmware download can add several minutes delay when downgrading a 16G platform to FOS v7.3.x or v7.4.x from FOS v8.0.1.	
Condition: On 16G platforms during firmware downgrade to FOS v7.3.x or v7.4.x from FOS v8.0.1.	

Defect ID: DEFECT000590946	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.3.1	Technology: Fibre Channel Routing
Symptom: After moving an unused port from one logical switch to another, connectivity could not be established between two other ports.	
Condition: The moved unused port shares an area with a used port in the same logical switch as the two ports which lost connectivity. After being moved, the moved port has a Port ID with an area with area and AL_PA fields that match one of the ports which lost connectivity.	
Workaround: Same as recovery.	
Recovery: Choose different ports to move to other logical switches.	

Defect ID: DEFECT000591297	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: CLI - Command Line Interface
Symptom: Customer may observe standby CP clock does not properly synchronize with the active CP.	
Condition: Customer might see this issue rarely after code upgrade or a standby CP replacement. This issue is only seen on subordinate switch in fabric.	
Recovery: Hafailover will sync the time once the standby CP becomes active CP.	

Defect ID: DEFECT000591695	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Hardware Monitoring
Symptom: Portstatsshow counters er_single_credit_loss and er_multi_credit_loss do not increment for credit loss on an IFL connections	
Condition: The error credit count in portStatsShow do not increment when the ASIC detects the following errors: 1. Software based link time out logic (RASLOG Cx-1012 BE port) 2. ASIC based credit leak (RASLOG Cx-1011) Only RASLOG is triggered to notify these errors.	

Defect ID: DEFECT000591718	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: SNMP - Simple Network Management Protocol
Symptom: auditcfg config key is not getting updated properly if the VF is enabled and switch has Logical Switches created.	
Condition: This will happen in system with logical switches setup.	
Recovery: Use hareboot/hafailover to create the keys properly.	

Defect ID: DEFECT000591922	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: FCIP - Fibre Channel over IP
Symptom: Unable to modify an enabled TCL when max TCLs are active.	
Condition: Maximum number of TCLs configured and enabled on the system.	
Workaround: Use portcfg tcl <name> modify --admin-status disable to disable the TCL first and then can modify the required parameter and re-enable the TCL.	

Defect ID: DEFECT000592012	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Layer 3 Routing/Network Layer
Reported In Release: FOS8.0.1	Technology: IP Addressing
Symptom: Unable to telnet to switch when IP over FC is configured.	
Condition: When the switch's management port is configured with a static IP address having the same subnet mask of IP over FC address.	
Workaround: Reconfigure the IP over FC address after the management IP is configured.	

Defect ID: DEFECT000592041	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: Configuration Fundamentals
Symptom: Supportffdc configuration is not persistent across firmwaredownload.	
Condition: This behavior is seen in all platforms with FOS Versions v7.3.2 and prior	

Defect ID: DEFECT000592079	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.2.0	Technology: High Availability
Symptom: HA synchronization issues may be encountered, or port names may be lost in switch configuration database on both primary and secondary partitions following an hafailover.	
Condition: This may be encountered if a carriage return is inserted into a port name. The configuration database is not properly synced in such situations.	
Workaround: Reconfigure all ports (that have a carriage return in the port name) to remove the carriage returns from the port names.	
Recovery: Reconfigure missing port names, taking proper caution not to insert any carriage return in the port names.	

Defect ID: DEFECT000592244	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: Security Policies
Symptom: Ipfiler policies do not apply to IPFC addresses.	
Condition: Create IPFC addresses on same subnet as switch IP for a virtual fabric, ipfilter rules are not applied to these IPFC addresses.	

Defect ID: DEFECT000592537	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Fibre Channel Services
Symptom: Termination of Weblinker process when the standby Brocade CPX blade is removed.	
Condition: Although not recommended, when removing the standby Brocade CPX blade and the Weblinker polling is running.	
Recovery: The Weblinker is a restartable process.	

Defect ID: DEFECT000592779	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: Port Bring-up
Symptom: The 16G QSFP can only get sync at 16G. It is not supporting 4G or 8G connections. If the speed is fixed to either of those two speeds, the QSFP port gets a C4-1001 port faulted due to invalid SFP or laser fault.	
Condition: If the speed is fixed to 4G/8G, C4-1001 will be seen on 16G QSFP port.	
Workaround: Please set the port to AN mode.	
Recovery: Configure the port speed to AN/16G and toggle the port.	

Defect ID: DEFECT000593194	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Software Installation & Upgrade
Symptom: During a disruptive firmware download, the RASLog do not show the firmware download for the SX6 extension blade.	
Condition: During a disruptive firmware download on the SX6 extension blade	
Workaround: There is no loss of functionality.	

Defect ID: DEFECT000593302	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: Extended Fabrics
Symptom: Small data transfers fail on TCP connections running through IP Extension.	
Condition: A very short lived TCP connection that sends a small amount of data immediately after it is established and is followed by an immediate close, may close without transferring any data. The TCP connection must be terminated through IP Extension.	

Defect ID: DEFECT000593461	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Fibre Channel Services
Symptom: CLI "agshow" may not display all F-ports.	
Condition: After a disruptive operation, CLI "agshow" may not display all F-ports	
Workaround: F-Port information can be found in output of CLI 'switchshow' display on the attached switch and in Access Gateway.	

Defect ID: DEFECT000593472	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: HTTP/HTTPS
Symptom: The security certificate DAYS_TO_EXPIRE rule violation will not be highlighted in Summary Report's Todays section instead, it will be highlighted in Last 7 day's section even when the rule was violated today.	
Condition: The issue is observed due to dashboard backup is after the rule violation.	
Workaround: For security certificate DAYS_TO_EXPIRE rule violation, please refer RASLOG message.	

Defect ID: DEFECT000593482	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Software Installation & Upgrade
Symptom: Firmwaredownloadstatus command does not reflect the activation completed message.	
Condition: When the firmware download is triggered using firwaredownload -r. Once the firmware download is completed, then firmwaredownloadstatus message displays all stages completion logs, but the firmwareactivate stage completed message was missing in the firmwaredownloadstatus command output.	

Defect ID: DEFECT000593528	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.3.1	Technology: Port Bring-up
Symptom: Ports on certain blades are always coming up as G-Port	
Condition: Two different conditions may cause this defect: 1. Interrupt the configure CLI when changing the address mode from "1" to "0". ...or... 2. Replace the port2BoundAreaMap of a switch in address mode "0" with the port2BoundAreaMap of a switch that was in address mode "1" and reboot. The number of ports on each slot of each switch must match.	
Workaround: Don't interrupt the switch in any way during an Address Mode change and don't use an incompatible port2BoundAreaMap.	
Recovery: Change the address mode to "1" and then change it again to "0".	

Defect ID: DEFECT000593549	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: FCIP - Fibre Channel over IP
Symptom: SFP on GE port comes up as Laser_Flt.	
Condition: This is seen on 10G tunable SFP.	

Defect ID: DEFECT000593645	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: Port Bring-up
Symptom: Some ports are not logging in following a bladedisable/enable or switchdisable/enable.	
Condition: Rare condition after executing stress test of a loop of bladedisable/enable or switchdisable/enable.	
Recovery: Try another disable/enable or reboot as last resort.	

Defect ID: DEFECT000593653	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.2.0	Technology: CLI - Command Line Interface
Symptom: The portcfgportcredits CLI command does not appear to set the credits specified in the command input.	
Condition: This issue may be observed with various platforms running FOS7.2.1f, 7.3.1c, 7.4.1 or later releases.	
Recovery: Bounce the affected port after running portcfgportcredits.	

Defect ID: DEFECT000593734	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: D-Port - Diagnostic Port
Symptom: While running DPORT tests on a port connected to QLogic 16G HBA, observed test fail with reason "Device does not support DPORT functionality".	
Condition: Continuously configuring the port as DPORT and toggling to run the DPORT tests can occasionally cause this.	
Recovery: Re-running the test will make it pass.	

Defect ID: DEFECT000593781	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: CLI "mapsdb --show" gives the sum of all the violations related to the category rather than the number of violated rules per each category as the "Rule Count" counter.	
Condition: This is encountered on Switch using MAPS with the specified CLI.	

Defect ID: DEFECT000594002	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: FCIP - Fibre Channel over IP
Symptom: Operational status displays as 'degraded' when using the --qos or --ha flag with the 'portshow fciptunnel' command when SLA is running. Should show as 'Testing' instead.	
Condition: When SLA test is running on a circuit and the 'portshow fciptunnel' command is issued with either the --qos or --ha option specified (but not both).	

Defect ID: DEFECT000594100	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: CLI - Command Line Interface
Symptom: Unable to clear ASIC stats.	
Condition: When issuing CLI command "statsclear" on GEN6 platforms.	

Defect ID: DEFECT000594259	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: False MAPS alerts reported for SFP RX/TX Power as value is 0.	
Condition: This is applicable to all platforms and it happens when i2c access is temporarily not available.	

Defect ID: DEFECT000594354	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: SSHOW_OS timeout during SS collection from CLI.	
Condition: In fully loaded setup while collecting SS, SSHOW_OS command exceeds its threshold timeout value (8min) and gets timeout. In that fully loaded setup it crossed 8min timeout while traversing pt_throttle_info proc entry for all ports.	
Workaround: Run supportsave with -t option (timeout multiplier option).	

Defect ID: DEFECT000594797	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Management GUI
Symptom: Temperature display table in WebTools shows incorrect values for sensor index column.	
Condition: This issue will occur when temperature sensor index is greater than 240.	

Defect ID: DEFECT000594896	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: Software Installation & Upgrade
Symptom: Director or switch cannot boot up after reboot/hareboot/hafailover. It reports "The system is coming up, please wait..." but does not progress further.	
Condition: This is more likely to happen on switch/director that is configured with NTP service with FOS v7.2.1e, v7.3.1, v7.4.1 and later releases that contains the fix for Defect 501658. Impacted platforms are: DCX, DCX-4S, DCX8510-8, DCX8510-4, Brocade 5300, Brocade 6520, Brocade Encryption Switch	
Workaround: For director, before any reboot, run <pre>> /sbin/hwclock RTC_RD_TIME: Bad address ioctl() to /dev rtc to read the time failed.</pre> If it reports above error, perform hafailover and reset CP so recovery is non-disruptive. For switch, please schedule a window for a disruptive POR.	
Recovery: Reseat the impacted / hung CP blade. POR the impacted switch.	

Defect ID: DEFECT000594904	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: FCIP - Fibre Channel over IP
Symptom: After issuing 'extncfg --config -clear -slot <slot>' to a SX6 slot, the user will be required to reboot the chassis before any further configuration changes are allowed.	
Condition: Will occur when the 'extncfg --config -clear -slot <slot>' command is issued on an SX6 blade.	

Defect ID: DEFECT000595186	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.1	Technology: Flow Vision
Symptom: With Maps logical group as ingress port for vTap flow, portdisable/enable on an F_Port belonging to MAPS group may result in halting of vTap-mirroring.	
Condition: 1. Maps logical group as ingress port for vTAP flow. 2. Repetitive portdisable/enable of F_Ports belonging to MAPS group.	
Recovery: Perform an hareboot to failover to the standby CP.	

Defect ID: DEFECT000595314	
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: ESMd panic can occur on tunnel delete / cleanup.	
Condition: Rare timing case that can occur during any tunnel deletion / cleanup event. This can occur during a slotpoweroff, execution of 'portcfg fcipunnel <ve> delete' command, execution of 'portcfgdefault <ve>' command, etc.	

Defect ID: DEFECT000595324	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.1	Technology: Hardware Monitoring
Symptom: CF space utilization may go to 100%, mostly from large file /var/log/slpd_xmalloc.log.	
Condition: This may be seen on Brocade BR6547 switch.	

Defect ID: DEFECT000595368	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.0	Technology: Management GUI
Symptom: In WebTools zone configuration tab, two zone nodes will be displayed instead of one zone node.	
Condition: This may be encountered when launching zone admin in FOS 7.4 version and later.	

Defect ID: DEFECT000595429	
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: SX6 blade in Gen6 chassis may experience a panic on DP.	
Condition: This may be encountered on Gen6 chassis.	

Defect ID: DEFECT000595443	
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: On config replay after reboot, the SLA flag can be removed from the FCIP circuit configuration.	
Condition: This can occur in large configuration scenarios (2+ SX6 blades, 7+ Logical switches configured, 10 or more FCIP tunnels configured). It is seen on reboot of the chassis during the config replay when there may be a timeout when attempting to modify the wtool session. Upon the timeout, the SLA is removed from the circuit instead of being put into an error state.	

Defect ID: DEFECT000595452	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: FCIP - Fibre Channel over IP
Symptom: FICON interface timeout detected messages/IOS005I messages during FCIP hot code load.	
Condition: Problem occurs after retry-able HCL Feature Disable errors occur, with active FICON traffic on an FCIP tunnel that has FICON emulation features enabled.	

Defect ID: DEFECT000595467	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Configuration Fundamentals
Symptom: Preservation of the vTap/QoS compatibility mode setting is non-deterministic across firmware downgrade from FOSv8.0.x to FOSv8.0.0, and/or on upgrade from FOSv8.0.0 to FOSv8.0.x.	
Condition: Downgrade will not be blocked as a result of vTap/QoS compatibility setting; downgrade is allowed even when the mode is enabled. The setting may or may not persist through downgrade and subsequent upgrades; that is, there is no effort made by the Fabric OS firmware to maintain, nor clear, this setting as part of downgrade/upgrade. With FOS v8.0.1, vTap/QoS compatibility mode is disabled by default.	
Workaround: It is recommended that vTap/QoS compatibility mode, if enabled, be manually disabled by the user if downgrading from FOS v8.0.x to FOSv8.0.0.	

Defect ID: DEFECT000595474	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Software Installation & Upgrade
Symptom: The power usage of CPX6 blade or SX6 extension blade might display higher in the chassisshow output than the actual power usage.	
Condition: FOS erroneously calculates the power usage of the CPX6 blades.	

Defect ID: DEFECT000595573	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.2	Technology: Flow Vision
Symptom: Customer observes a "/" following the * in the ingress port display of sys_analytics_vtap.	
Condition: This is seen when AMP is used for monitoring the fabric performance.	
Workaround: This is a cosmetic issue and functionality is not impacted.	

Defect ID: DEFECT000595586	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Management GUI
Symptom: Memory, equal to the size of the hash configured, lost during each authentication. Over a long period of time, system may become unstable and report memory leak issue.	
Condition: On switches having WebTools and BNA management sessions.	

Defect ID: DEFECT000595599	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: Fibre Channel Routing
Symptom: A port in a 32G trunk group, after bounce, formed a separate trunk due to FEC state mismatch with master port.	
Condition: This problem applies for 32G trunking ports and occurs when the port goes offline because of Link failure and then comes online and tries to join master port.	

Defect ID: DEFECT000595635	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: FSPF - Fabric Shortest Path First
Symptom: User may observe memory allocation failure and system stuck in unresponsive state.	
Condition: This may be very rarely encountered when user terminates a running D_Port test using “portDportTest -stop <port>” command.	
Recovery: Perform power cycle to recover the switch from this state.	

Defect ID: DEFECT000595760	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.2.1	Technology: CLI - Command Line Interface
Symptom: After switch run out of shared memory, processes terminate or CLI cannot be run with error: shmInit: shmget failed: No space left on device.	
Condition: After multiple iterations of exiting the process doing configshow/configupload before getting a response from CVLM.	

Defect ID: DEFECT000595761	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Software Installation & Upgrade
Symptom: Fan speed continuously oscillate between two speed levels every 30 minutes. Customers will see HIL-1516 raslog every time the fan speed increases as part of this oscillation.	
Condition: The fan oscillation happens on X6-4 and X6-8 chassis.	

Defect ID: DEFECT000595768	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.4.1	Technology: Fastwrite
Symptom: Repetitive XTUN-1001 and associated XTUN-1997 or XTUN-1999 RASLOGs reported from active FCIP DP Complex.	
Condition: Problem can occur when a particular Disk controller to controller mirroring application is active over the FCIP Tunnel, and uses an FC ELS-PRLI sequence as a heartbeat mechanism.	

Defect ID: DEFECT000595812	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.3.0	Technology: Buffer Credit Management
Symptom: Hosts may experience aborts and frame loss without visible errors on switch.	
Condition: This is a rare occurrence that may be triggered by a bit corruption on BE port leading to frame loss	

Defect ID: DEFECT000595881	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: WAN Performance Analysis Tools
Symptom: FCIP Circuit is in an Online Warning state after applying an SLA, due to SLA misconfiguration.	
Condition: Configuring an FCIP Circuit with an SLA when the circuit is in a Down state.	
Workaround: Apply SLA configuration as part of the FCIP circuit create command, or after the circuit state reaches In Progress or Online.	

Defect ID: DEFECT000595919	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: Port Bring-up
Symptom: Two FCIP-linked SW7840s with 40Gb LWL QSFP transitioned to a Laser Flt during firmwareupgrade	
Condition: Using 40Gb LWL QSFP on GE ports during port enable.	
Recovery: Recovery was to physically unplug\re-plug both GE0 40Gb LWL optics and both ports transitioned Online.	

Defect ID: DEFECT000596027	
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: FCIP FCP and FICON I/O Errors during FCIP HCL Failover or Failback processing on FCP or FICON Emulation enabled tunnels.	
Condition: When running active FICON and FCP traffic over a FICON emulation and FCP emulation enabled FCIP tunnel (or different tunnels) and performing an FCIP HCL firmware upgrade or downgrade.	

Defect ID: DEFECT000596055	
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: Non-disruptive upgrade resulted in soft fault on DP.	
Condition: This can occur when running concurrent non-disruptive HCL on both sides of the extension tunnel with multiple extension tunnels configured between the two switches.	
Workaround: When upgrading firmware via non-disruptive HCL with extension tunnels, upgrade all switches in series allowing each switch to complete before starting the next switch.	

Defect ID: DEFECT000596066	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.2.0_hit	Technology: CLI - Command Line Interface
Symptom: Brocade 6546 units may occasionally signal to the chassis management module that a power supply voltage has reached a “fatal” level, leading to switch to be powered off.	
Condition: This is encountered only while performing AC power on/off cycling with Full POST enabled during outgoing inspection.	

Defect ID: DEFECT000596073	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: Flow Monitor with option frametype doesn't count frames.	
Condition: Flow created with option frametype.	

Defect ID: DEFECT000596090	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Virtual Fabrics
Symptom: User may not be able to move a port to another Logical Switch.	
Condition: This may occur on ge10 port of SX6 blade.	

Defect ID: DEFECT000596200	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: Brocade 6520 platform missing RASLog event "[SULB-1044], 4, CHASSIS, INFO, Brocade_6505C3, Firmwaredownload to secondary partition has completed successfully."	
Condition: During firmwaredownload on the Brocade 6520 platform	
Workaround: Use firmwaredownloadstatus to see the status.	

Defect ID: DEFECT000596220	
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: Upon GE port disable or switchdisable, connections are not cleared, as a result buffers are not freed.	
Condition: This occurs following GE port disable or switchdisable with IPSec configured tunnels.	

Defect ID: DEFECT000596474	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: The user cannot configure frame monitors in Egress port on Brocade 6520 switch.	
Condition: This is encountered only on Brocade 6520 switch	

Defect ID: DEFECT000596504	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: IPsec - IP Security
Symptom: "IKE: Session DP1.1 Shared Key Authentication failure" errors on an FCIP tunnel - configured with an ipsec-policy having 64-bit PSK value.	
Condition: This can occur between two 7840s when one side is running 7.4.x code and the other is running 8.0.1 when there is an IPSec policy being used with a full 64 byte pre-shared key value.	
Recovery: Reconfigure the ipsec policy to use a key less than 64 bytes.	

Defect ID: DEFECT000596524	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Virtual Fabrics
Symptom: SNMP fruclass object returning switch blade as application blade and in chassisshow its showing as SW blade instead of AP blade	
Condition: Fruclass is incorrect for application blade	

Defect ID: DEFECT000596527	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: Fabric Authentication
Symptom: Port may become disabled after a firmware download from FOS v8.0.1 to FOS v7.4.x with port authentication set to DHCHAP.	
Condition: Firmwaredownload from FOS v8.0.1 to FOS v7.4.x.	
Workaround: Remove the DHCHAP keys using "secauthsecret --remove --all" and add the keys back after downgrade to FOS v7.4.x.	

Defect ID: DEFECT000596539	
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: Brocade 6505 model switch when shipped with single FAN/PS FRU which is the default ship configuration for this model will show WARNING message and MARGINAL switch state.	
Condition: Brocade 6505 model that is shipped with single FAN/PS FRU.	

Defect ID: DEFECT000596542	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: Fibre Channel Addressing
Symptom: In a FICON environment, timeouts occur between the mainframe and the FICON CUP which causes lots of error messages to appear on the mainframe console.	
Condition: This is more likely to occur when: 1) increase the number of Brocade Network Advisors (BNAs) monitoring the fabric, and/or 2) increase the number logical FICON paths between the mainframe and the FICON CUP.	
Workaround: Reduce the number of Brocade Network Advisors (BNA) monitoring the fabric. And/or reduce the number of logical FICON paths.	
Recovery: Same as the workaround.	

Defect ID: DEFECT000596564	
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: User may see a termination of process esmd.	
Condition: This can occur on heavily configured extension systems where we are near max resource limit.	

Defect ID: DEFECT000596570	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: RFM flow stats increment though mirrored frames are not being sent out through the AE-Port.	
Condition: This issue happens when a slot is power toggled or a slot is powered on when RFM flow is active and enforced.	

Defect ID: DEFECT000596578	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Configuration Fundamentals
Symptom: FOS needs to update the APIs to support BNA in validating switch name is not all numeric.	
Condition: This is applicable to Brocade Network Advisor switch name validation only.	
Workaround: Do not use characters that are not alphanumeric, dash, underscore, or dash in a Write Port Address Name for port 0xFE.	

Defect ID: DEFECT000596587	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: FSPF - Fabric Shortest Path First
Symptom: When LOLA is enabled on a switch, an ISL Port offline rerouting performance enhancement results in a regression where stale routes remain programmed. The stale routes may result in frame loss or fabric domains not marked as unreachable. An FSPF crash may be observed following a non-disruptive reboot or failover.	
Condition: The stale routes can be observed following multiple E-Ports going offline in quick succession (on order of 10s of milliseconds), some of which need to include trunk master changes, when the Location ID is configured on the switch. If trunks come back online and domains become reachable again, frames may be discarded due the inclusion of the stale routes. The FSPF crash may happen if the non-disruptive reboot or failover is performed more than 30 minutes following the bulk offline.	
Workaround: When the Location ID is enabled on the switch, perform ISL port bring-down in a slower, more controlled fashion, leaving at least 1 to 2 seconds between each port disable.	
Recovery: A cold recovery or switch disable cleans up the stale routing information.	

Defect ID: DEFECT000596616	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.0.2	Technology: High Availability
Symptom: Termination of weblinker is observed.	
Condition: This issue is seen rarely during configupload operation from management application.	

Defect ID: DEFECT000596728	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: WAN Performance Analysis Tools
Symptom: An extension circuit will remain in a Test state for a longer period of time than expected once the packet loss on the circuit goes below the configured SLA threshold.	
Condition: Large amounts of packet loss experienced on the network for an extended period of time during an Automated WAN Tool test can cause the SLA requirements to fail even after the packet loss has been corrected.	
Recovery: Issue a stop command for the Automated WAN Tool session.	

Defect ID: DEFECT000596729	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Licensing
Symptom: After a time based (i.e. trial) Integrated Routing license on Gen6 chassis has expired, EX ports are coming up even after a reboot/switchdisable/switchenable commands were issued.	
Condition: EX Ports can be activated with an expired Trial/Temp Integrated Routing Ports on Demand license installed.	

Defect ID: DEFECT000596765	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: The counters on a User created flow monitor on F-ports with frame type swr/srd are zero or have random values	
Condition: This occurs on user created flow monitors on F_Ports	

Defect ID: DEFECT000597464	
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: IPv6 address not logged in SEC-1023 RASLog message	
Condition: This applies for telnet session; SSH session logs fine.	

Defect ID: DEFECT000597570	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Configuration Fundamentals
Symptom: Link level error may be seen on unsupported 32G QSFP in 16G switch ICL port.	
Condition: 32G QSFP Vendor Name: BROCADE, Vendor OUI: 00:05:1e, Vendor PN: 57-1000331-01 when inserted in a 16G chassis.	

Defect ID: DEFECT000597572	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.1.0	Technology: FCIP - Fibre Channel over IP
Symptom: Channel Detected Error message on z/OS console and extended tape read job failure.	
Condition: This is seen when FCIP FICON Tape Read Pipelining is active and the tape controller returns an immediate command retry status (0x4E status) to the active read command.	

Defect ID: DEFECT000598105	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: Flow termination of npd may occur.	
Condition: This may be encountered during configdownload.	

Defect ID: DEFECT000598549	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: Management GUI
Symptom: Https with FQDN will not work if switch CSR is generated from Non- default switch FID.	
Condition: VF enabled switch might exhibit this issue.	
Workaround: Switch CSR needs to be generated only on default switch.	
Recovery: Please delete switch csr and recreate the csr from default switch ID.	

Defect ID: DEFECT000598560	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: Flow Dev Latency Impact and slow drain device messages may be seen shortly after enabling sys_gen_all_simports as follows flow --act sys_gen_all_simports	
Condition: These may be false latency reports, resulting from erroneous adjustments to currently running latency counters.	

Defect ID: DEFECT000598592	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.3.1	Technology: FCIP Tunnel Management
Symptom: Application traffic is disrupted without recovery after credit loss on internal trunk between C2 and FPGA/FCIP block. Enhance code to allow user configure for faulting FX8-24 in this condition.	
Condition: When there are any kind of FPGA internal or DP errors resulted in credit not returned back to the FC block on FX8-24.	
Recovery: Slotpoweroff/Slotpoweron FX8-24 blade under this condition.	

Defect ID: DEFECT000598768	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: Fabric Authentication
Symptom: User may encounter a RASLog ERROR Message: [AUTH-1042] - "Port <n> has been disabled, because authentication failed with code 'Authentication Failure' and explanation 'Authentication Failed'.	
Condition: This occurs when port is being enabled and DHCHAP secret is set.	

Defect ID: DEFECT000599105	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.0.2	Technology: Software Installation & Upgrade
Symptom: DCX Power Supply may encounter "unknown header" after performing a reboot via firmwaredownload or hafailover that may result in a faulty power supply unit, where chassisshow command shows PS as follows: POWER SUPPLY Unit: <n> Unknown	
Condition: This is a very rare occurrence that may lead to FRU header corruption in the power supply internal EEPROM.	

Defect ID: DEFECT000599182	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.2	Technology: Flow Vision
Symptom: VTAP is active in a fabric with QOS high zones enabled.	
Condition: This is encountered when AMP is used to monitor the fabric performance.	
Workaround: Deactivate sys_analytics_vtap flow.	
Recovery: Deactivate sys_analytics_vtap flow.	

Defect ID: DEFECT000599416	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.1	Technology: Syslog
Symptom: Changing MIB capability in SNMP does not report proper old and new values in RAS log.	
Condition: This is applicable to all platforms.	

Defect ID: DEFECT000599746	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.3.2	Technology: ISL - Inter-Switch Linking
Symptom: The switch.login.perSwitchMax parameter of 'F-port login setting' is removed after user issued configure setting or configdefault.	
Condition: Configkey "switch.login.perSwitchMax" gets removed only when the default value is configured. This is applicable to all platforms.	

Defect ID: DEFECT000599808	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.0_CBN	Technology: Access Gateway
Symptom: Webserviceapp module panic will be observed when user tries to update PG mappings using “setFport” SOAP call.	
Condition: This issue will be observed when user deletes last N-port from the PG (with F-ports still mapped to this N-port) using configureNPortsInPG SOAP call, and then try to update PG mappings for these F-ports using setFport SOAP call.	

Defect ID: DEFECT000599939	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.2	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: The integer value after the string INTEGER in SNMP trap does not match with ifindex.	
Condition: This issue is applicable for all platforms.	

Defect ID: DEFECT000599955	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.2	Technology: Flow Vision
Symptom: Customer uses VTAP with port based csctl configuration on a chassis.	
Condition: This is encountered when AMP is used for monitoring fabric performance.	
Workaround: Deactivate sys_analytics_vtap flow	
Recovery: Deactivate sys_analytics_vtap flow	

Defect ID: DEFECT000599994	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: FICON
Symptom: Chassis reboot may be encountered with a (***) libc detected (***) ficud: malloc(): memory corruption: 0x1035f978 (***)	
Condition: The problem should only be possible to encounter for sites running zHealth Checker on the host and FMS Mode on the switches. The problem would also require having multiple switches connected with ICL links and having the switches running Device Based Routing mode.	
Workaround: Disable ICLs or change to a routing policy other than DBR or do not initiate director diagnostics queries that might traverse an ICL	

Defect ID: DEFECT000600016	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: Kernel Panic may be encountered, triggered by "Detected termination of MAPS mdd process".	
Condition: This may occur when executing the CLI command "mapsdb --show" to get the MAPS dashboard.	

Defect ID: DEFECT000600653	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.3.1	Technology: FCIP - Fibre Channel over IP
Symptom: FCIP Tunnel down errors and accompanying BLZ-5024 RASLOG.	
Condition: This is seen with FCIP FICON Emulation configured tunnel and channel path error recovery occurring between channel(s) and control unit(s) or between control unit(s) and channel(s) causing OXID registration errors on the DP (only visible via FTRACE).	

Defect ID: DEFECT000600859	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: Configdownload with CSCTL Mode OFF does not deactivate remote flow mirroring (RFM) and mirroring still is happening.	
Condition: This occurs following configdownload with CM set to OFF.	

Defect ID: DEFECT000600982	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: Management GUI
Symptom: WebTools Name server tab freezes.	
Condition: This occurs if nsinfo has WWN format of: "00:00:00:00:00:00:00:00".	
Workaround: Remove wrong format WWN.	

Defect ID: DEFECT000601378	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Configuration Fundamentals
Symptom: Switch may encounter Detected termination of process mdd:2176.	
Condition: This may occur during system verification tests.	

Defect ID: DEFECT000601394	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Management GUI
Symptom: Web Tools flyover on an X6-8 (only) Core blade in slots 7 or 8 shows far-left row of ports as Port 8 and not as port 0.	
Condition: This is seen only on X6-8 chassis, upon launching Web Tools Hardware session with X6-8 Logical Switch.	

Defect ID: DEFECT000601716	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: FA-PWWN - Fabric-Assisted Port WWN
Symptom: The FOS CLI command fapwwn on FOS embedded platforms return "This operation is not supported on this platform".	
Condition: This is encountered only on embedded platforms.	

Defect ID: DEFECT000601756	
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: CUP Diags may report "BRP103-LostFrame" in Health Summary when the actual error was a Link Failure MAPS threshold violation.	
Condition: <ol style="list-style-type: none"> 1. FMS is enabled. 2. Switch online to MVS 3. IBM Health Checker running, with IOS_FABRIC_MONITOR. 4. FMS action is enabled in MAPS config 5. MAPS rule for Link Failure threshold has the FMS action enabled 6 Link Failure threshold violation is detected by MAPS 	

Defect ID: DEFECT000601844	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: Port Bring-up
Symptom: FC8-32E, FC8-48E and FC8-64 blades are not supported in FOS8.0.1.	
Condition: FC8-32E, FC8-48E and FC8-64 blade support was disabled/discontinued in v8.0.1. The support for these blades is reinstated in FOS8.0.2 and beyond.	

Defect ID: DEFECT000601910	
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: User won't be able to receive HA traps even after enabling the mibcapability.	
Condition: This issue is seen in all the platform upgraded to FOS v7.4.x or later from lower versions with MIB capability disabled.	

Defect ID: DEFECT000602113	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: Buffer Credit Management
Symptom: The applicability of fe_crdloss option is not clear.	
Condition: This is an issue for switches running v8.0 or higher which do not support FE credit recovery.	

Defect ID: DEFECT000602116	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Syslog
Symptom: Switch may panic due to CF getting 100% full.	
Condition: This may occur in some specific syslog-ng server connection retry cases that generates huge messages to /var/log/syslog.log.	

Defect ID: DEFECT000602264	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: Fastwrite
Symptom: I/O errors over an FCIP Tunnel with Fast Write enabled.	
Condition: After processing a target initiated ELS-RRQ sequence on a FCIP Tunnel that has Fast Write enabled.	
Workaround: Disable Fast Write feature on the FCIP Tunnel.	

Defect ID: DEFECT000602406	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: FEC - Forward Error Correction
Symptom: FEC lock and TIMEOUT errors encountered during diagnostic portloopbacktest -lb_mode 1 -ports 57-58,62 on Brocade G620 32G switch.	
Condition: This is encountered only on Brocade G620 switch.	

Defect ID: DEFECT000602632	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.2.1	Technology: Software Installation & Upgrade
Symptom: Active and standby CP failed to gain HA sync during HCL.	
Condition: Rare timing condition caused ipadmin daemon to start up late during firmware upgrade in director class products.	
Recovery: Reboot of active CP is need to recover.	

Defect ID: DEFECT000602919	
Technical Severity: Low	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: SNMP - Simple Network Management Protocol
Symptom: SNMPv1 community string does not update if the updated string is the same but different case. For example changing from STRING-1_RW to STRING-1_rw.	
Condition: This is encountered only when using CLI command line mode. This is not an issue in CLI interactive mode.	

Defect ID: DEFECT000603254	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: Firmware downgrade blocking message displayed is not clear "The vTap and QOS compatibility mode is ON at the switch FID: xx".	
Condition: This may occur when compatibility mode is ON while trying to downgrade from v8.0.1 to v7.4.x.	

Defect ID: DEFECT000603339	
Technical Severity: Low	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: The description of swMemUsage/swmemUsageLimit in sw.Mib provides total memory conflicting with MIB description where it shows "memory usage limit".	
Condition: Applicable to all platforms that run MAPS.	

Defect ID: DEFECT000603533	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: Inband Management
Symptom: User may not be able to login to one or more LS through IPFC address after upgrading from FOS7.3.x to higher FOS versions.	
Condition: Most likely to see this issue if the user deletes the LS that was not the last one created.	
Workaround: Create a dummy LS if any LS was deleted before upgrading to new version.	
Recovery: Create a dummy LS after hitting the issue.	

Defect ID: DEFECT000603672	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Hardware Monitoring
Symptom: Observed OOM condition with cached memory going up very high (>70% of total memory) during IO, with no apparent memory leak.	
Condition: This may be encountered more often with BNA polling FCR fabrics.	
Recovery: Perform an hafailover/hareboot to recover.	

Defect ID: DEFECT000603905	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: Software Installation & Upgrade
Symptom: FOS may attempt a CP firmware autosync even when the standby CP is at FOS levels below v6.4.0.	
Condition: This is seen only when Active CP is at v6.4.0 or higher FOS version and a standby CP with FOS version lower than v6.4.0 is inserted.	
Workaround: Manually invoke firmwaredownload to bring the standby CP in sync with the same FOS version as the active CP.	

Defect ID: DEFECT000604324	
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: FCIP Tunnel keep alive timeout failures and tunnel does not recover without a blade or switch reboot.	
Condition: Problem occurs as a result of the FCIP DP complex running out of WIRE buffers. The WIRE buffer pool is below 41% free and Ethernet port input is limited due to flow control mechanisms. The WIRE buffers are lost after processing received non-IKE UDP Unicast frames.	
Workaround: Prevent non-IKE UDP frames from being sent to the 7800/FX8-24 GE port IP Addresses.	

Defect ID: DEFECT000604960	
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: Switch state remains in CRITICAL even when all the switch status contributing parameters change from critical to marginal state.	
Condition: This behavior is seen in all platforms with FOS version 8.x.	

Defect ID: DEFECT000604974	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.3.2	Technology: HTTP/HTTPS
Symptom: After upgrade to FOS v7.3.2a the customer get an error message when attempting to add a new commonCA.pem file using the seccertutil command.	
Condition: This issue hit only on FOSv7.3.2a (fixed in 7.3.2b) as this is side effect of fix done for the Defect 564450. This defect does not impact any other FOS7.x and FOS 8.x running in field.	
Workaround: Import certificates in non-interactive mode will get succeed.	

Defect ID: DEFECT000605149	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.0	Technology: Hardware Monitoring
Symptom: MAPS 'dflt_base_policy' will not warn the user when 1 of its 2 power supplies is missing or faulty	
Condition: On Brocade switches such as Brocade7800 and 5300 where Fans and Power Supplies are separate units and when power supply fails with FOS v7.4 or later.	
Workaround: This problem can be worked around with Flow Vision license until switch can be upgraded.	

Defect ID: DEFECT000605207	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.1	Technology: Hardware Monitoring
Symptom: Increase in memory utilization which could potentially lead to OOM.	
Condition: Applicable to all platforms run FOS7.4.x and above when the switch is being discovered and undiscovered by BNA continuously/periodically. Many KmsgHandler process are shown on the switch when this happens.	

Defect ID: DEFECT000605295	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: High Availability
Symptom: Observed ports went offline and online on 8G pizza box during hareboot or firmwaredownload.	
Condition: This happens on 8 Gbps switches when there is class3 timeout frame during hareboot.	
Workaround: Remove conditions that could cause class3 timeout frame drop, such as slow drain device, before a hareboot happens.	

Defect ID: DEFECT000605414	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: Software Installation & Upgrade
Symptom: Firmwaredownload using SCP protocol may fail with reason: Cannot download the requested firmware because the firmware doesn't support this platform.	
Condition: This firmwaredownload failure is encountered when using SCP and the network in use is slow or error prone.	
Workaround: 1. Investigate and fix possible network issue. 2. Use firmwaredownload with FTP or 3. Retry firmwaredownload with SCP.	
Recovery: Use firmwaredownload with FTP or retry firmwaredownload using SCP.	

Defect ID: DEFECT000606560	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.2	Technology: Management GUI
Symptom: Web Tool showing E-port type is allowed for internal port.	
Condition: It may be seen on embedded switches.	

Defect ID: DEFECT000607159	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: Configuration Fundamentals
Symptom: CP panicked when blades were PORED and initializing.	
Condition: Race condition while power-cycle the blade running turboram diag test.	
Workaround: Avoid power-cycle the blade while diag test is not completed.	

Defect ID: DEFECT000607458	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: SNMP - Simple Network Management Protocol
Symptom: User is able to see community string details in Snmconfig.html file from WT supportsave.	
Condition: This is an issue with Webtools supportsave.	

Defect ID: DEFECT000607510	
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: DIAG messages flooding RAS log causing RASLog to wrap.	
Condition: This is exposed with background polling from application with FOS v7.4.1 and later.	

Defect ID: DEFECT000607518	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: FCIP - Fibre Channel over IP
Symptom: Observed Panic and switch went to rolling reboot when user tries to enable "20VE & FCIP mode" from "10Ve & Hybrid mode" on 7840 switch.	
Condition: This will occur in a multi-LS environment if there are LAN ports configured in the default switch, and the 'extncfg --app-mode' command is issued in a non-default switch.	
Workaround: Issue 'extncfg' command to change the app-mode in the default switch.	

Defect ID: DEFECT000607529	
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: FICON IFCCs on FCIP FICON emulated extended devices.	
Condition: In a FICON FCIP Emulation enabled configuration a Z/OS channel driver upgrade (to channel driver level 27 or higher) has been completed or if a DS8X00 firmware upgrade has been completed (upgrade to DS8870 Release 7.5 SP3/87.51.38.0 or later or DS8880 Release 8.01 R8.0SP1/88.1.17.0 or later).	
Workaround: Change the FICON FCIP Tunnel OXID Base to 0x9000. This can be completed with the following CLI command and subsequent tunnel bounce: portcfg fciptunnel <slot/>vePort modify --oxid-base 9000.	

Defect ID: DEFECT000607627	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.4.0	Technology: FCIP - Fibre Channel over IP
Symptom: VE Port stuck in G-Port state after FCIP tunnel down event.	
Condition: BR7800 or FX8-24 FCIP Tunnel with moderate or aggressive software compression enabled after a decompression error (a rare event).	
Recovery: Reboot the BR7800 or slot power off and on the FX8-24 blade.	

Defect ID: DEFECT000607971	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.3.1	Technology: FCIP - Fibre Channel over IP
Symptom: TSM gets ANR9999D CheckPosition - Position error volume writing to tape.	
Condition: On an FCIP OSTP enabled Tunnel, if there are FC sequence errors, there are cases when OSTP will not attempt sequence recovery (ELS-REC and FC4 SSR processing). In those cases, there will be a tape creation or recall error.	

Defect ID: DEFECT000608539	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: Access Gateway
Symptom: The agshow command with the --local option shows AGs that are "local/remote" when they are only local.	
Condition: Stale AG data received from a remote switch is not cross referenced with the remote database on the local switch.	
Workaround: Same as recovery.	
Recovery: If it is known on which switch the remote AG is stale, run agshow on that switch to clean out the stale entry. After that, the agshow command should show the correct output when run on the switch showing the issue. NOTE: more than one other switch may have the stale AG as a local entry.	

Defect ID: DEFECT000608551	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: When the ports are added to a logical group using dynamic definition, the members of the group won't be removed though their names are changed through portcfgdefault.	
Condition: This issue is seen when the ports are added to a logical group through dynamic definition and their names are changed on portcfgdefault.	

Defect ID: DEFECT000608726	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Configuration Fundamentals
Symptom: No expected error message observed during EX_ports configuration.	
Condition: When one or more ICL ports that belongs to same QSPF group present in non-base switch, configuring EX_port results in no error being displayed.	
Recovery: All ICL ports belonging to the same QSFP group should be in base switch in order to configure EX_port.	

Defect ID: DEFECT000609380	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.2	Technology: Access Gateway
Symptom: CLI 'agshow' output on one of the edge switch doesn't display ipv6 address of AG switch it is connected to.	
Condition: When AG mode switch is connected to two switches and set ipv6 address on AG, one switch will show ipv6 info while the other does not.	
Workaround: On the AG connected to switch not showing IPv6 address, disable all the N-ports together, then enable them.	

Defect ID: DEFECT000609437	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Inband Management
Symptom: 3rd party management chassis shows previous static IP address instead of address assigned by DHCP server.	
Condition: It impacts 3rd party management chassis with embedded switch.	

Defect ID: DEFECT000609479	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: AAA - Authentication, Authorization, and Accounting
Symptom: "charset" option in passwdcfg is not properly checked.	
Condition: Perform passwdcfg --set -charset and passwdcfg --set -minlength, but minlength is not verified with error message.	

Defect ID: DEFECT000609504	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: HTTP/HTTPS
Symptom: Customer will see the message:/fabos/sbin/configSslNoti: /fabos/libexec/rpcdcfghandler: No such file or directory when configuring SSL certificate file name via the "configure" command.	
Condition: It happens when ssl attribute is configured/changed on switches running FOSv8.0.1, v8.0.1a and v8.0.1b only.	

Defect ID: DEFECT000609546	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: Fabric Authentication
Symptom: Error message in output of executing `seccertutil import` and `seccertutil export` with interactive mode. The message shows "stty: invalid argument `/bin/echo' Try `stty --help' for more information." and in executing these commands, input password is displayed.	
Condition: Issuing seccertutil import/export command.	

Defect ID: DEFECT000610053	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: High Availability
Symptom: Switch went into rolling reboot after load a config file with a MAPs policy rule >= 40 characters.	
Condition: A MAPs policy rule Name from previous version got downloaded to a switch with version higher than FOSv7.4.0	
Workaround: Remove the MAPs policy rule with >=40 rule length before download.	
Recovery: Contact TAC to assist with stop switch from rolling reboot: swap boot partition or firmwarecleaninstall can be used to bring the switch back.	

Defect ID: DEFECT000610300	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: A newly created MAPS rule may get associated with existing policy and rule deletion may fail.	
Condition: This occurs when policy name is not mentioned while creating the MAPS rule.	

Defect ID: DEFECT000610619	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Hardware Monitoring
Symptom: G620 has 3 fans in each PSU. Incorrect fan speed and status are observed when any of the fan in G620's PSU is stopped.	
Condition: This issue is seen on stopping any of the fan in G620.	

Defect ID: DEFECT000611046	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.4.1	Technology: Security Policies
Symptom: CLI ipfilter allows user to block TCP port 514 which cause BR7840 bring up timeout reboot loop.	
Condition: This impacts BR7840 and Analytics Monitoring Platform. Use the following command to check the ipfilter policy: ipfilter -show 7 any tcp 514 deny	
Workaround: Remove TCP port 514 from ipfilter block list to bring up switch.	

Defect ID: DEFECT000611167	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: High Availability
Symptom: Ifmd termination encountered on core base switch along with Critical RASLog message: [KSWD-1002], 44/2, SLOT 2 FFDC CHASSIS, WARNING, ?, Detected termination of process Ifmd [HAM-1014], 4, SLOT 2 CHASSIS, CRITICAL, ?, Non restartable component (Ifm (pid=2758)) died.	
Condition: This occurs after switch is disabled and enabled in all edge base switches.	

Defect ID: DEFECT000611430	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Configuration Fundamentals
Symptom: New Log file will be created to capture the logs from Switch and Zone admin tab.	
Condition: Applicable to all switches.	

Defect ID: DEFECT000611715	
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: User is not allowed to create MAPS group with the supported MAX of 32 characters.	
Condition: This issue is seen while create MAPS group via CLI with 32 characters.	
Workaround: BNA will allow 32 chars in a group name.	

Defect ID: DEFECT000612205	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: IPsec - IP Security
Symptom: In IKE policy tab in WebTools, Add and Edit button are enabled. They needs to be disabled.	
Condition: Applicable to all switch types.	

Defect ID: DEFECT000612616	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: CLI - Command Line Interface
Symptom: Request enhancement that using -f - force options to bypass prompt for following CLIs: cfgsave, cfgenable, cfgdisable.	
Condition: Run CLI cfgsave, cfgenable, cfgdisable.	

Defect ID: DEFECT000613200	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Configuration Fundamentals
Symptom: A Kernel Panic is observed during zoning configuration update.	
Condition: This occurs after setting defzone to noaccess followed by cfgsave.	

Defect ID: DEFECT000613468	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: High Availability
Symptom: Ifmd termination and switch panic encountered along with Critical RASLog message: [HAM-1014], 35, CHASSIS, CRITICAL, Stinger84, Non restartable component (Ifm (pid=1558)) died	
Condition: This occurs after hareboot/hafailover on other switches in the fabric, while rebooting the core switch in the same fabric.	

Defect ID: DEFECT000613656	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.4.1	Technology: FCIP Tunnel Management
Symptom: Following an upgrade, the FCIP tunnels may not come back up fully. DP status in "portshow fciptunnel --hcl-status" CLI output still shows the DPs being stuck at the previous firmware version.	
Condition: This may be encountered following an upgrade or downgrade with VF enabled.	
Recovery: Revert back to the previous firmware version that the DPs were stuck at reboot to bring the tunnels back up.	

Defect ID: DEFECT000613767	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.1.0	Technology: FCIP - Fibre Channel over IP
Symptom: IPEX traffic fails to start due to ARP resolution issues.	
Condition: This may occur when changing modes from WAN to LAN.	

Defect ID: DEFECT000613801	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.4.1	Technology: FCIP - Fibre Channel over IP
Symptom: Frequent XTUN-1997 messages logged on BR7840.	
Condition: Problem occurs on a BR7840 FCIP tunnel that has Fast Write and/or Fast Write and OSTP enabled when certain ELS Sequences are received from a target.	

Defect ID: DEFECT000613805	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.1.0	Technology: Fibre Channel Routing
Symptom: Following hafailover traffic is dropped and does not recover.	
Condition: This may occur in a VF switch with edge to edge traffic when there is a segmented E-port in the logical switch which is connected as edge fabric.	
Workaround: Remove the segmented e-port which triggers "build fabric" after warm recovery in the FCR.	

Defect ID: DEFECT000613818	
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 on FC8-64 cards in DCX+ and DCX-4S+ switch. 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 FC8-64 cards are installed.	

Defect ID: DEFECT000613976	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.2	Technology: Configuration Fundamentals
Symptom: Unlimited dhclient processes are created, causing system resource to run out and other daemons to panic randomly. Also dhclient generates flooding of logs.	
Condition: This occurs when DHCP is enabled but there is no IP address obtained from the DHCP server.	

Defect ID: DEFECT000614009	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.1.0	Technology: FCIP Tunnel Management
Symptom: User is blocked from configuring 20VE mode with message stating 'Tunnel X maximum comm-rate too high'.	
Condition: This will occur when user attempts to enter 20VE mode with a tunnel configured with aggregate maximum comm-rate greater than 10Gbps.	
Workaround: Use the portcfg fcipcircuit command to lower the aggregate bandwidth of all circuits under the tunnel to at or below 10Gbps. Then switch the mode to 20VE mode. Once in 20VE mode, use the portcfg fcipcircuit command again to increase the circuit bandwidths to the desired values.	

Defect ID: DEFECT000614282	
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 encounter "DIAG: execDiagCmd FAILED" while performing fcippathtest on SX6 blade.	
Condition: This occurs when performing fcippathtest on a SX6 blade.	

Defect ID: DEFECT000614336	
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: MAPS - Unmonitored designation for rules is inconsistent across policies.	
Condition: This designation (referring to the * that is prepended to some rules) is inconsistent especially with the aggressive policy.	

Defect ID: DEFECT000615004	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.4.1	Technology: Encryption
Symptom: FFDC and software verify error occurs when running cryptocfg --initnode command from BES CLI.	
Condition: This would happen only on BES switches running FOS v7.4.1d release.	

Defect ID: DEFECT000615272	
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: Output of "mapsrule --help" is incomplete.	
Condition: Run "mapsrule --help" CLI.	

Defect ID: DEFECT000615557	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.2.1	Technology: High Availability
Symptom: DCX 8510 and DCX 8510-4S may report faulty fans falsely.	
Condition: This occurs under heavy CPU load situation.	
Recovery: Re-seat the impacted FAN FRU.	

Defect ID: DEFECT000615643	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: Access Gateway
Symptom: WWN may show as logged in with CLI command switchshow, but portshow shows no WWN logged in.	
Condition: This may occur with Access Gateway ports without traffic impact.	

Defect ID: DEFECT000615648	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: Access Gateway
Symptom: May encounter continuous occurrence of FCPH-1007 RASLOG messages.	
Condition: This occurs when the following conditions are met: <ul style="list-style-type: none"> - Access Gateway with FOS v7.3.1c or above. - Multiple Access Gateway N-ports connected to the same fabric switch. - Devices connected to Access Gateway go offline immediately after logging in. - Access Gateway sends the same single event on multiple N-ports at the same time. 	
Recovery: If possible, prevent devices from going offline immediately after logging in.	

Defect ID: DEFECT000615687	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.1.0	Technology: Extended Fabrics
Symptom: Switch is set to a faulty state when a reboot is performed on local node during hot code load.	
Condition: This may occur following creation of MAX tunnels between Brocade 7840 and SX-6.	

Defect ID: DEFECT000616486	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.4.1	Technology: SSH - Secure Shell
Symptom: Unable to authenticate an SSH session after importing public key to switch.	
Condition: This is encountered by admin level users on a switch running Fabric OS v7.4.1d.	

Defect ID: DEFECT000616690	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: NTP - Network Time Protocol
Symptom: After running CLI "tstimezone --old -6" to change the time to GMT -6, CLI date will show it as GMT+6.	
Condition: Run "tstimezone --old" option.	

Defect ID: DEFECT000616781	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: High Availability
Symptom: CPs may drop HA sync after Network Patroller daemon (NPD) panic during firmware upgrade.	
Condition: This may be encountered during firmware upgrade on systems with multiple Logical Switches, and each LS has some ports with csctl_mode enabled.	
Recovery: Reboot active CP in a maintenance window.	

Defect ID: DEFECT000616852	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: CLI - Command Line Interface
Symptom: Port state of LISL ports in switchshow output is misaligned.	
Condition: This behavior is seen only for LISL ports.	

Defect ID: DEFECT000616857	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Analytics Monitoring
Symptom: Activation of vTap flow fails.	
Condition: It happens when vTap was modified on slave port, and then try to deactivate and activate the vTap on master port.	

Defect ID: DEFECT000616896	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: FFDC event along with the following Critical RASLog may be encountered during firmware upgrade. [HAM-1014], 793, SLOT 4 CHASSIS, CRITICAL, Brocade_DCX4S, Non restartable component (ess (pid=2120)) died.	
Condition: This may occur during firmware upgrade from FOS v7.4.1x.	
Workaround: Maintain a stable fabric during Firmware upgrade, where all domains in the fabric remain online during the entire firmware upgrade process.	

Defect ID: DEFECT000617157	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: User may encounter MAPS termination of mdd and assert error.	
Condition: This may be encountered while using sfp monitor user defined rules.	

Defect ID: DEFECT000617706	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: CLI - Command Line Interface
Symptom: When executing the "-m 32" operand of the portcfgspeed command, the speed of portcfgshow is displayed as "??".	
Condition: This will be seen in all 32G platform running FOS 8.0.0 and 8.0.1.	

Defect ID: DEFECT000618464	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: The Maps daemon (MDD) panicked and did not restart on active CP. As a result the director lost HA SYNC.	
Condition: This happened when standby CP was in and out of faulty state very frequently, and HA could not be recovered even after standby CP replacement.	
Recovery: Reboot active CP in a maintenance window.	

Defect ID: DEFECT000618536	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Management GUI
Symptom: "PCS Block Errors" and "Power On Time" details not shown for 32G switches in WebTools	
Condition: Using WebTool on 32G switch	

Defect ID: DEFECT000618708	
Technical Severity: Low	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.4.1	Technology: User Accounts & Passwords
Symptom: When logging in to a user defined account with user defined role, access to the udrole directory runs into the error "No directory /fabos/users/udrole!".	
Condition: This is encountered when a user defined user with user defined role is created.	

Defect ID: DEFECT000619351	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: CLI - Command Line Interface
Symptom: Password distribute command is no longer functional.	
Condition: This issue is seen in FOS v7.4.1d with CLI" distribute -p "PWD" -d "*""	

Defect ID: DEFECT000619435	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.3.1	Technology: FCIP - Fibre Channel over IP
Symptom: Observed FFDC and peer side FCIP Tunnel bounce.	
Condition: When activating zOS paths over a FICON Emulation enabled FCIP Tunnel.	

Defect ID: DEFECT000619818	
Technical Severity: Low	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: CLI - Command Line Interface
Symptom: fosConfig command does not work	
Condition: This occurs on all platforms due to fosconfig command not having the matching camelcase command for "fosConfig"	
Workaround: Use fosconfig instead.	

Defect ID: DEFECT000620268	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.4.1	Technology: FCIP Tunnel Management
Symptom: During upgrade of BR7840s with Virtual Fabric enabled, the tunnels never fully came back up. It showed "empty" and "incomplete".	
Condition: Uninitialized data contains invalid values which cause the tunnel configuration to not be applied after an HA event.	
Recovery: Back down to pre-FOSv7.4.x version and reboot.	

Defect ID: DEFECT000620536	
Technical Severity: Low	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.4.1	Technology: QoS - Quality of Service
Symptom: Following a firmware upgrade, the setup lose its prior tuned serdes values on FX8-24 blade.	
Condition: This occurs on ports 7/7, 7/10, 3/30 of FX8-24 port blade when tuning on transmit side.	

Defect ID: DEFECT000620551	
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: Multiple XTUN-1997 per day with minimal zOS reported IFCCs on extended CHPIDs.	
Condition: Invalid FTRACE trigger (should not be a trigger) occurs when FCIP is processing ELS-RDP SOFi2 sequences on a FICON Emulation enabled FCIP Tunnel. The receipt of a BA-ACC will generate the XTUN-1997 message and trigger a trace buffer on BR7840.	

Defect ID: DEFECT000621064	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Configuration Fundamentals
Symptom: Inconsistency in the value of snmp.mibCap.FCMGMT-MIB between default and manual configurations.	
Condition: This is applicable to all FOS platforms running >= FOS7.4.x.	

Defect ID: DEFECT000621079	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Management GUI
Symptom: Port Admin view within WebTools may show "Advanced mode and not Basic as was expected.	
Condition: This may occur with the following steps: <ul style="list-style-type: none"> - Set view of menu bar on WebTools at the "Advanced" mode. - Close web browser (WebTools' session). - Open your web browser again and start Web Tools. - Change view of Port Admin tab to "Basic" mode. - Click "Switch View" tab. And, please click the FC port in the G620 switch view. Port Admin view is now in "Advanced mode (as in first step)" not Basic as was expected.	

Defect ID: DEFECT000621111	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: High Availability
Symptom: After Out of memory (OOM) is detected, the switch may encounter panic when hareboot is attempted to recover from OOM.	
Condition: This may occur under intense file activities, especially on FC Router switches, when greater than 70% of total memory is moved to cache pool by Linux.	
Recovery: Manual hareboot when free memory is at 15% of total memory.	

Defect ID: DEFECT000621163	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.1	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: Customer noticed the corrupt of audit class configuration: sw0:admin> configshow grep audit audit.cfg.class:1,2,3,4,5,7,8,9,1010, <<< Strange value "1010,".	
Condition: Observed after firmware download to FOS v7.4.1d and FOS v8.0.1x.	

Defect ID: DEFECT000621636	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Management GUI
Symptom: In zone admin dialog, the zone configuration will not list the members for the peer zone.	
Condition: This is applicable only for the cloned peer zone configuration.	

Defect ID: DEFECT000622163	
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 encounter RASLog RTWR-1003 "RTWR retry 48 to domain 15, iu_data 1000000"	
Condition: This is observed when BR 7840 is added to the fabric.	

Defect ID: DEFECT000622873	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: Fibre Channel Services
Symptom: cfgupload file does not contain an entry for "zoning.TIZoneFilter" even when the functionality is enabled	
Condition: This is encountered with config download for TIZoneFilter	

Defect ID: DEFECT000623098	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.1	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: User may encounter a switch hang/panic from "Oops: Exception in kernel mode, sig: 5 [#1]"	
Condition: This may be seen on a Brocade 6520 when there is ASIC parity error.	
Recovery: Reboot switch to recovery	

Defect ID: DEFECT000623984	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: An internal RASLog "PLAT-7001" is flooding RASLog.	
Condition: This message will be coming when users run WebTools and connect to BR6542 FC Switch system.	

Defect ID: DEFECT000624488	
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: User may encounter "Detected termination of mdd0:1649 (4) : HAM: swd_close_proc:exit code:134, exit sig:17, parent sig:0"	
Condition: This may be observed during firmware download from a rare condition.	

Defect ID: DEFECT000624563	
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: Slow or aborted FC Exchanges.	
Condition: After BR7840 FCIP HCL with large number of FC devices in the configuration.	
Workaround: Perform disruptive firmware download.	
Recovery: Reboot switch.	

Defect ID: DEFECT000624897	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Software Installation & Upgrade
Symptom: firmwarecleaninstall to a FOS version without a fix for defect 595584 is permitted but it may fail	
Condition: This occurs only on BR6505, BR6510 and BR300 switches when firmwarecleaninstall is performed to a FOS version without the fix for defect 595584.	

Defect ID: DEFECT000625012	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: Management GUI
Symptom: WebTools launch redirects to non-existent page.	
Condition: Launching WebTools from Firefox or IE.	

Workaround: Launching SwitchExplorer_installed.html instead of SwitchExplorer.html

Defect ID: DEFECT000625058

Technical Severity: High	Probability: Medium
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Product: Brocade Fabric OS	Technology Group: Management
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Reported In Release: FOS7.4.1	Technology: CLI - Command Line Interface
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Symptom: D-port link traffic test does not use the full bandwidth of the link
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Condition: When ISL R_RDY and LD is configured

Defect ID: DEFECT000625435

Technical Severity: Medium	Probability: High
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Product: Brocade Fabric OS	Technology Group: Extension
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Reported In Release: FOS8.0.1	Technology: FCIP Tunnel Management
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Symptom: 10GbE SFP may not be recognized in SX6 blade. It functionally works as expected but may not display SFP data in sfpshow command.
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Condition: This is encountered only for SFPs with Vendor PN AP823A

Defect ID: DEFECT000625469

Technical Severity: Medium	Probability: High
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Product: Brocade Fabric OS	Technology Group: Traffic Management
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Reported In Release: FOS7.4.1	Technology: Port Bring-up
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Symptom: Long distance links using SFPs with Part Numbers FTLX3670SCC**B08 may not come online,
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Condition: This occurs only for SPFs with part numbers FTLX3670SCC**B08
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Defect ID: DEFECT000625584

Technical Severity: High	Probability: Low
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Product: Brocade Fabric OS	Technology Group: Security
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Reported In Release: FOS7.4.0	Technology: Security Vulnerability
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Symptom: CVE-2016-5195(Dirty Cow): Unprivileged local users could gain write access to otherwise read-only memory mappings, and thus increase their privileges on the system.
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Condition: This can only be exploited by someone who has access to the switch already and it is limited to G620 and BR7840 platforms

Workaround: Protecting against unauthorized logins.
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Closed without code changes in Fabric OS 8.1.0

This section lists software defects with Critical, High, and Medium Technical Severity closed without a code change as of December 14, 2016 in version 8.1.0.

Defect ID: DEFECT000463170	Technical Severity: Medium
Reason Code: Not Reproducible	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.2.0	Technology: Configuration Fundamentals
Symptom: ipsecconfig command may hang the command line	
Condition: ipsecconfig --disable command may hang and not work properly. Subsequent disable/re-enables may fail.	

Defect ID: DEFECT000540971	Technical Severity: Low
Reason Code: Already Fixed in Release	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.2.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: In extreme conditions MAPS generates false alert for port errors such as LR etc.	
Condition: This false alert could be generated during state change of port and this happen in extreme conditions.	

Defect ID: DEFECT000554685	Technical Severity: Medium
Reason Code: Will Not Fix	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.1	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: swSsn varbind is missed in the swEventTrap trap if swExtTrap is set to "No" .	
Condition: This behavior is seen on all platforms when the user sets swExtTrap to "No".	

Defect ID: DEFECT000558941	Technical Severity: High
Reason Code: Not Reproducible	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.0 AMP	Technology: Flow Vision
Symptom: Due to ISLs enabled by error or unintentional configuration between two unique fabrics, vTap flow may be mirrored to a wrong Analytics Monitoring Platform (AMP) or to a wrong AF_Port on AMP when the inadvertently merged fabric is connected to the same logical switch on the AMP.	
Condition: The customer may face this issue if the same logical switch on AMP is connected to two unique fabrics which inadvertently merged.	
Workaround: Avoid inadvertent fabric merge or if merge is intentional, deactivate vTap flow, configure the correct AF port, activate vTap flow.	
Recovery: Remove ISL causing the inadvertent merge, deactivate vTap flow, configure the correct AF port, and activate vTap flow.	

Defect ID: DEFECT000564187	Technical Severity: Medium
Reason Code: Will Not Fix	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS6.4.2	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: User can still configure FA-TRAP/ISCSI-TRAP on upgraded version, though FA-MIB/ISCSI-MIB was set to 'NO' in the previous version with snmpconfig --set mibcapability.	
Condition: This may occur if system underwent an upgrade from FOS v6.3.x to FOS v6.4.x with FA-MIB/ISCSI-MIB set to 'NO'.	

Defect ID: DEFECT000570383	Technical Severity: Medium
Reason Code: Will Not Fix	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.3.1	Technology: FICON
Symptom: Soon after a CFG-POR (mainframe reboot) operation, channels in a Logical Switch lost connectivity with Control Units in its neighbor Logical Switch. At the point of lost connectivity, all Logical Fabrics lost connectivity through the Base Fabric to their common-zoned targets in the remote Logical Fabric.	
Condition: A two chassis' topology having three Logical Partitions in each chassis and there a Base Fabric with ISL links.	
Workaround: Hafailover to prevent the issue.	
Recovery: Set the non-base logical switches offline and then online.	

Defect ID: DEFECT000570541	Technical Severity: Medium
Reason Code: Not Reproducible	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.0	Technology: Management GUI
Symptom: Web Tools Switch Throughput Graph closes after error message "null Switch throughput graph will be closed" displays.	
Condition: The Web Tools Switch Throughput Graph closes if kept open for more than 2 days	
Workaround: Close and re-open the Web Tools Switch Throughput Graph every 2 days.	

Defect ID: DEFECT000572497	Technical Severity: High
Reason Code: Feature/Function Not Supported	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS7.3.0	Technology: Port Bring-up
Symptom: Switch cold boot due to "Software Fault:ASSERT"	
Condition: The following conditions may cause this timing issue: <ul style="list-style-type: none"> - Multiple switch ports bouncing repeatedly over the course of several minutes. - Port bounces are initiated by the devices rebooting which causes the offline and online to occur very close together. 	

Defect ID: DEFECT000577686	Technical Severity: Medium
Reason Code: Feature/Function Not Supported	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: DEFECT000577989	Technical Severity: Medium
Reason Code: Feature/Function Not Supported	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.0	Technology: SNMP - Simple Network Management Protocol
Symptom: SNMP "entPhysicalClass" objects does not display correct values for one of the PhysicalClass named as "other" and its associate "entPhysicalSerialNum"	
Condition: When doing SNMP walk on "entPhysicalClass" objects	

Defect ID: DEFECT000581753	Technical Severity: Medium
Reason Code: Feature/Function Not Supported	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: The following error message occurs when the customer tries to create MAPS rules. "The feature is not supported on standby CP"	
Condition: This issue happens when the firmware version in the standby CP is less than the Active CP (FOSv7.3)	
Workaround: hafailover.	

Defect ID: DEFECT000589666	Technical Severity: High
Reason Code: Not Reproducible	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.0.1	Technology: FCIP - Fibre Channel over IP
Symptom: Loss of device connectivity during non-disruptive firmware migration on Brocade 7840	
Condition: Occasional during a non-disruptive firmware migration on an extension platform, when DP upgrade is happening, frames are dropped when the routes change to support DP fail over and DP fallback process	

Defect ID: DEFECT000590653	Technical Severity: Low
Reason Code: Will Not Fix	Probability: Low
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.0.1	Technology: QoS - Quality of Service
Symptom: After enabling QoS in a fabric, frame timeout may be observed under heavy congestion condition.	
Condition: While implementing QoS in an existing fabric, IO was stopped, QoS High was enabled and IO was started again. When the IO started running, latency was reported and C3 discards were observed.	
Workaround: Remove the slow-drain devices in the fabric.	
Recovery: Disabled the QoS zones and reverted back to standard zoning.	

Defect ID: DEFECT000591754	Technical Severity: High
Reason Code: Feature/Function Not Supported	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.0	Technology: Configuration Fundamentals
Symptom: Attempts to change IP address on embedded switch fails intermittently.	
Condition: This may be seen with Brocade M5424 switch, when IP address change is performed through CMC management module.	
Workaround: Log into serial console and use "ipaddrset" to change IP address.	

Defect ID: DEFECT000591792	Technical Severity: Medium
Reason Code: Not Reproducible	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Configuration Fundamentals
Symptom: Executing CLI "ifModeset" command displays error message "Error: ifModeSet - Permission denied"	
Condition: The ifModeset CLI is deprecated. There is no loss of functionality.	

Defect ID: DEFECT000591977	Technical Severity: Low
Reason Code: Feature/Function Not Supported	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.2	Technology: APM - Advanced Performance Monitoring
Symptom: Error message "RBAC permission denied" is observed while executing fmmonitor --clear command.	
Condition: This issue is seen on clearing the counters corresponding to frame monitor using the command "fmmonitor --clear".	

Defect ID: DEFECT000592609	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: When using the CLI command "portcfg lag LAG1 --delete -f" the user may see warning message WARNING: While making configuration changes the modified LAN GE ports will be disabled. Please run "portenable" command to manually enable the modified LAN GE ports after completing all the configuration changes. Operation timed out	
Condition: When deleting Lags	
Workaround: This is cosmetic error with a timeout and there should not be any functionality loss.	

Defect ID: DEFECT000592802	Technical Severity: Medium
Reason Code: Already Fixed in Release	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: D-Port - Diagnostic Port
Symptom: Porttest command fails.	
Condition: This occurs when CLI command porttest is executed on ports in a logical switch or base switch that are configured as D-port.	
Workaround: Use D-port for running link diagnostics	

Defect ID: DEFECT000593757	Technical Severity: Medium
Reason Code: Not Reproducible	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Software Installation & Upgrade
Symptom: F-ports will remain disabled in AG and user need to manually enable the ports to bring up the F_Ports.	
Condition: Switchdisable/enable without any delay on G620 platform alone will make the F_Ports to stay in disabled state	
Workaround: Toggling the port will recover it.	

Defect ID: DEFECT000594196	Technical Severity: Medium
Reason Code: Feature/Function Not Supported	Probability: Low
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.4.0	Technology: Encryption
Symptom: Decommission fails for LUNs having special character "/" in LSN.	
Condition: In encryption environment (BES/FS8-18), if LUN is added for encryption with special character "/" in LSN, then decommissioning of the LUN fails.	

Defect ID: DEFECT000595911	Technical Severity: Medium
Reason Code: Feature/Function Not Supported	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.0_AMP	Technology: APM - Advanced Performance Monitoring
Symptom: While collecting the supportsave logs in a scaled configuration (large number of flows), the DP might go to offline state.	
Condition: Supportsave log collection in a scaled configuration (large number of flows) can cause DP to go to offline state.	
Recovery: Reboot the switch.	

Defect ID: DEFECT000596021	Technical Severity: Medium
Reason Code: Already Fixed in Release	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.0	Technology: Configuration Fundamentals
Symptom: SFP/QSFP NO_MODULE Ports that do not have the POD license installed, on portloopbacktest, the LEDs will glow amber.	
Condition: On running portloopbacktest, the NO_MODULE ports with no POD License glows amber.	

Defect ID: DEFECT000596508	Technical Severity: Medium
Reason Code: Will Not Fix	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: SNMP - Simple Network Management Protocol
Symptom: SNMP swDeviceStatusTrap trap is not generated in FOS v7.3.2 when device status is changed from offline to online or vice versa.	
Condition: Switches running FOS v7.3.2 are affected. FOS v7.3.1x does not have this problem.	

Defect ID: DEFECT000597291	Technical Severity: Medium
Reason Code: Will Not Fix	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.2	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: trackchangeset is deprecated in 7.3. However the following need to be addressed. <ol style="list-style-type: none"> 1. The configuration parameter in configshow/configupload needs to be cleared. 2. TRCK RASLog messages appearing on errdump in 7.3.2 need to be stopped. 3. swTrackChangesTrap that is sent to SNMP Manager also needs to be stopped. 4. swTrackChangesInfo OID should be blocked when SNMP manager tries to SNMP-GET. 	
Condition: This applies only to trackchangeset related cli commands, traps and query supported in pre 7.3 versions in all platforms and deprecated from 7.3 onward.	

Defect ID: DEFECT000597483	Technical Severity: Medium
Reason Code: Feature/Function Not Supported	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.2	Technology: Fabric Watch
Symptom: Some difference are seen in the severity of filter class between Event traps and Fabric Watch traps.	
Condition: This is applicable to all the platforms.	

Defect ID: DEFECT000597731	Technical Severity: High
Reason Code: Feature/Function Not Supported	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.4.0_CBN	Technology: User Accounts & Passwords
Symptom: Enable CLI access for HPE to update firmware in the factory.	
Condition: Issue has always been there and new enhancements are now made as per HPEs request.	

Defect ID: DEFECT000598290	Technical Severity: High
Reason Code: Will Not Fix	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.0_CBN	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: MDD module crash on repeated execution of getTeleMetryData SOAP call.	
Condition: Issue is observed when executing getTeleMetryData SOAP call from OneView	

Defect ID: DEFECT000598447	Technical Severity: High
Reason Code: Will Not Fix	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.0_CBN	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: TXByte and TxFrame telemetry data values are interchanged while sending the data to SOAP/MDTEST modules.	
Condition: Issue is observed when executing getTeleMetryData SOAP call from OneView.	

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: DEFECT000600111	Technical Severity: Medium
Reason Code: Feature/Function Not Supported	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.3.2	Technology: APM - Advanced Performance Monitoring
Symptom: Installation for frame monitor via WebTool may fail	
Condition: This issue is seen when there's any stale monitor present on the port and user is trying to install any frame monitor via WebTool on the same port.	

Defect ID: DEFECT000600473	Technical Severity: High
Reason Code: Design Limitation	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: Flow monitor created on the Backbone to monitor an F_Port with a srcdev and dstdev as learning and also with PIDs do not display stats and the learning flow is not learned.	
Condition: This is encountered if monitored F port and Ex_Port are on the same ASIC chip.	

Defect ID: DEFECT000600495	Technical Severity: High
Reason Code: Feature/Function Not Supported	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.0_CBN	Technology: Hardware Monitoring
Symptom: OneView application displays alarms briefly when the Health LED indicates "degraded" i.e. blinking yellow on Brocade 6559.	
Condition: This occurs during the "Reset to Factory Defaults" operation which is triggered by certain OneView operations.	
Workaround: If the Health LED is yellow for a moment and then goes back to green, user can ignore it. It is only a problem if it stays yellow.	

Defect ID: DEFECT000601599	Technical Severity: Medium
Reason Code: Feature/Function Not Supported	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.4.0_CBN	Technology: User Accounts & Passwords
Symptom: "Unexpected error" message occurs when running FOS cli "roleconfig --show -all -default"	
Condition: No condition, this symptom is always seen in code base before it resolved.	

Defect ID: DEFECT000601757	Technical Severity: High
Reason Code: Feature/Function Not Supported	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.2.1	Technology: Encryption
Symptom: BNA shows that the switch is encryption disabled even when encryption blade is present.	
Condition: Brocade encryption switches and Platforms having encryption blade exhibits this behavior.	

Defect ID: DEFECT000602221	Technical Severity: Low
Reason Code: Feature/Function Not Supported	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: CLI - Command Line Interface
Symptom: The output of the CLI command fwPortDetailShow does not update immediately after a state change.	
Condition: This may be encountered for all SFP types, when using the CLI command fwportdetailshow after the relevant area (RXP/TXP) changes state from above high threshold, back to between high and low thresholds. Here the 'x' indication of SRX and STX in CLI command fwportdetailshow does not change back to a dash '-'.	

Defect ID: DEFECT000604672	Technical Severity: High
Reason Code: Already Fixed in Release	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS AMPOS1.5.0	Technology: D-Port - Diagnostic Port
Symptom: The fabric daemon may get terminated at the end of on-demand D-Port test initiated automatically through slot power on operation.	
Condition: Low probability that this occurs when on-demand D-Port test is initiated automatically through slot power on operation.	
Recovery: No explicit recovery needed, switch reboots and recovers.	

Defect ID: DEFECT000604673	Technical Severity: High
Reason Code: Already Fixed in Release	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS AMPOS1.5.0	Technology: D-Port - Diagnostic Port
Symptom: While running D_Port tests on multiple ports, user may observe electrical loop back test failure due to loss of signal.	
Condition: User may encounter this issue due to loss of signal detected during electrical loop back test, when remote port completes the electrical loop back test ahead of local port.	
Recovery: This is a false failure. Re-run D_Port test on the failed port.	

Defect ID: DEFECT000604966	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: Syslog
Symptom: /var/log/messages file might get filled due to unexpected kernel activities lead to 100% utilization of CF.	
Condition: This is applicable to all the platforms. Chances for this to happen on embedded platforms like 5460 is more due to possible SVP interrupts.	

Defect ID: DEFECT000609393	Technical Severity: Medium
Reason Code: Already Fixed in Release	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.2	Technology: Licensing
Symptom: When attempting to access the Extended Fabrics tab via Web Tools, it gives a message "Access to this and other advanced Web Tools features requires installation of the Enhanced Group Management (EGM) license on this switch."	
Condition: EGM license was not included in FOS by default on 16G embedded switches.	

Defect ID: DEFECT000610657	Technical Severity: Medium
Reason Code: Will Not Fix	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: Hardware Monitoring
Symptom: Tempshow command would display sensor index even without -detail option.	
Condition: This issue is observed on executing tempshow command.	

Defect ID: DEFECT000622898	Technical Severity: High
Reason Code: Will Not Fix	Probability: Low
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.4.0	Technology: Encryption
Symptom: LUN discovery fails until a cfgenable is run on encryption platforms	
Condition: When number of RD zones present in the fabric is large.	

Defect ID: DEFECT000624435	Technical Severity: Medium
Reason Code: Feature/Function Not Supported	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: AAA - Authentication, Authorization, and Accounting
Symptom: Customer observing display issue related to ldapcfg --show command after AMP upgrade from 1.5.0 to 2.0.0. Extra null entries being listed in output.	
Condition: Upgrade the switch from pre 2.0.0 with ldap mapping configured to 2.0.0 or higher version hit this. This is applicable to downgrade from 2.0.0 or higher to pre 2.0.0.	
Workaround: remove the /etc/fabos/ldap.map file before upgrade/downgrade between pre 2.0.0 to 2.0.0 higher version and vice versa.	
Recovery: Removing the /etc/fabos/ldap.map file and creating mappings again will recover from this issue.	

Open Defects in Fabric OS 8.1.0

This section lists open software defects with Critical, High, and Medium Technical Severity as of December 14, 2016 in version 8.1.0.

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: 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: 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: DEFECT000512746	
Technical Severity: Medium	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: 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: DEFECT000555276	
Technical Severity: Low	Probability: Low
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: Low	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 beaoning stops after Spinfab is run.	
Condition: When port beaoning is enabled on a port, LED blink pattern stops after Spinfab is run.	
Recovery: Disable and then re-enable port beaoning on the port.	

Defect ID: DEFECT000569927	
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: Low	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: 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: DEFECT000574429	
Technical Severity: Low	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: 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: DEFECT000577772	
Technical Severity: High	Probability: High
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: 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: DEFECT000591120	
Technical Severity: Low User Impact	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 up.	

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 <code>sddquarantine ---show CLI</code> .	
Condition: When the device takes unusually long duration to come online and the switch port is already quarantined.	

Defect ID: DEFECT000609100	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: Issuing switch reboot from CLI might result in a kernel panic.	
Condition: During successive reboots on the switch via CLI.	

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 set back to 1970/01/01 after a zone CLI is run, in addition, sometimes, pdm queue full is reported.	
Condition: This issue is seen when disable TDZ (portcfgtdz -disable *) on all ports of the switch. Issue is NOT seen if disable only a few ports.	

Defect ID: DEFECT000610499	
Technical Severity: Medium	Probability: Medium
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: 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: 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: 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: 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: DEFECT000618484	
Technical Severity: Medium	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: 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
<p>Symptom: Customer may not be able to set forwarding from notforwarding using SNMP browser.</p> <pre>***** SNMP SET-RESPONSE START *****</pre> <p>Error: Wrong value</p> <p>Error index: 1</p> <p>1: ipForwarding.0 (INTEGER) forwarding(1)</p> <pre>***** SNMP SET-RESPONSE END *****</pre>	
Condition: Observed while changing switch mode from forwarding to notforwarding.	

Defect ID: DEFECT000619851	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Configuration Fundamentals
<p>Symptom: The following FCIP statistics will not be displayed in WebTools:</p> <pre>InCompressedOctets InUncompressedOctets OutCompressedOctets OutUncompressedOctets</pre>	
Condition: The issue is seen on FCIP setups that have compression enabled.	

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: 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: 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 management 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: DEFECT000620329	
Technical Severity: Medium	Probability: Medium
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: 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 is not effective 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: 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: 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. [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	
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"> • Perform firmware downgrade from FOS v8.1.0 to v8.0.1 first. • Perform firmware downgrade from FOS v8.0.1 to v8.0.0 next. 	

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: DEFECT000622664	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.1.0	Technology: Port Bring-up
Symptom: No_Sync on G610 ports configured as fixed 16G port.	
Condition: Occasionally seen when G610 ports configured as fixed 16G and connect to 32G auto speed negotiate.	
Workaround: Reconfigure the 32G ASN port by issuing CLI portcfgspeed <pt> 0 -m 16.	
Recovery: Port toggle recovers the port.	

Defect ID: DEFECT000622718	
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: Trace Route for the FOS FCIP extension platforms may fail in Brocade Network Advisor.	
Condition: When attempting trace route from Brocade Network Advisor.	

Defect ID: DEFECT000623020	
Technical Severity: High	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: 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: 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 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: DEFECT000623930	
Technical Severity: Medium	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: 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 reboot.	
Condition: After rebooting core Access Gateway and the connected fabric switch, host on edge AG may not discover target in the fabric.	
Recovery: Issue a switch disable/enable on core Access Gateway will recover from the issue	

Defect ID: DEFECT000624603	
Technical Severity: High	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: 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	

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 <code>"/bin/rm: cannot unlink `~/fabos/link_sbin/lscfg_test': Permission denied"</code>	
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: DEFECT000625251	
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 severity of the MAPS SFP temperature violations are at "INFO" level instead of "WARNING"	
Condition: If the SFP temperature goes below the configured threshold, then the MAPS violation for this condition is triggered with INFO severity though it is warning.	

Defect ID: DEFECT000625537	
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: 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: 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: DEFECT000625758	
Technical Severity: Medium	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: 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. <pre>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</pre>	

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 Release: FOS8.1.0	Technology: MAPS - Monitoring and Alerting Policy 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: DEFECT000626366	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: High Availability
Symptom: System crash when reboot both CPs at the same time.	
Condition: Occasionally use may observe system crash happened, if user simultaneously reboot of both the CPs with POST Diagnostics enabled.	

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: 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. The following are examples: <ol style="list-style-type: none"> 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: 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 cfsz 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.	

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 switch 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.	

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: DEFECT000627183	
Technical Severity: High	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 an edge chassis switch is changed from non VF to VF mode, the Access Gateway switch connected to the edge chassis may crash.	

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: 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 do not flash green in WebTool.	
Condition: When user uses WebTool to monitor switch port state, if chassis beacon is enabled, user may observe not all ports LEDs flash in green.	

Defect ID: DEFECT000627339	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Inband Management
Symptom: When eth0 interface is down, the eth3 interface becomes 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: DEFECT000627417	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Access Gateway
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 "portdportest --start" command is executed on the switch at the remote end of the link.	

Defect ID: DEFECT000627462	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.2	Technology: Configuration Fundamentals
Symptom: The uploaded configuration file might be missing the zoning.tizonefilter and will not be downloaded to the switch.	

Condition: The upload config file is missing the "zoning.tizonefilter " key
Recovery: Manually set the setting for ti filtering after config download.

Defect ID: DEFECT000627488	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: CLI - Command Line Interface
Symptom: User will not be 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: 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: 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 srceid and dstdev defined, then the second frame type flow is allowed. If the first frame type flow is defined with srceid 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 srccd. 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: 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: 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: DEFECT000628050	
Technical Severity: Medium	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 an 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: 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 to G610 switch will occasionally fail.	
Condition: Sometime SSH connection with public key (password less login) may fail to login to G610 switch. This condition is rarely to happen.	
Workaround: Disconnect and establish the connection again.	

Defect ID: DEFECT000628444	
Technical Severity: High	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: 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: DEFECT000628518	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Virtual Fabrics
Symptom: "Port not bounded to Address in FICON Switch" error will be shown to the user when ports are moved to FICON LS.	
Condition: When ports are moved to FICON LS before binding their addresses, user may observe these ports are not enabled and error message will be displayed.	