Brocade Fabric OS v7.4.2f Release Notes v1.0

February 3, 2020

Document History

Document Title	Summary of Changes	Publication Date
Brocade Fabric OS v7.4.2f Release Notes v1.0	Initial Release for Fabric OS 7.4.2f	February 3, 2020

Contents

Overview

FOS v7.4.2f is a legacy supported patch release based on FOS v7.4.2e. It supports the platforms noted in the Supported Switches section. Features for the supported switches that are supported in FOS v7.4.2e are also supported in FOS v7.4.2f. This release contains new security vulnerability fixes listed at the end of this document.

FOS v7.4.2 Overview

New Enhancements

FOS v7.4.2 includes the following software enhancements.

- The *ldapCfg* command supports a new option *--mapattr* to assign a list of vendor specific attributes. This 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.
- Support GPN_SDFCP Query in Name Server.
- Add new audit log message RAS-2010 to indicate syslog service start after switch reboot or a standby CP transition from standby to active state.

New OUIs

FOS v7.4.2 supports the following new IEEE organizationally unique identifier (OUI) assigned to Brocade.

- D8-1F-CC

Deprecated Hardware

The following Brocade devices are no longer supported starting with FOS v7.4.2.

- Brocade Encryption Switch
- FS8-18 blade

Resolution of Important Defects

- DEFECT000567817 - Firmware upgrade fails on a director with the standby CP remaining in a constant powering up state.
- DEFECT000540101 - SNMP query reports a fan speed of 0.
- DEFECT000563416 - Observed Kernal panic (Unable to handle kernal paging request) during single Channel running Local Control Unit Port (CUP).
- DEFECT000568423 - Intermittent I/O Failures through an 7800/FX8024 or 7840 FCIP Tunnel due to processing an Extended Link Services PDISC (Discover N_Port Service Parameters) Request.
- DEFECT000586977 - Switch panic occurs while performing any zone transactions (like cfgdisable/cfgenable/setting defzone) when there is an LISL present on the logical switch.
- DEFECT000588834 - Continuous DP panics on BR7840 and loss of ip interface configurations.
- DEFECT000635804 - Loading MAPS policies and rules causes high memory utilization.

FOS v7.4 Obsoleted FOS Features

The following features supported in FOS v7.3 and earlier releases are obsolete beginning with FOS v7.4:

- Fabric Watch
- Advanced Performance Monitoring (APM)

Users running Fabric Watch for switch monitoring in FOS v7.3 are advised to convert to MAPS monitoring before upgrading to FOS v7.4. Converting Fabric Watch to MAPS before upgrading to FOS v7.4 can preserve Fabric Watch threshold configurations. If users choose to upgrade to FOS v7.4 without converting to MAPS, Fabric Watch will stop functioning after the firmware upgrade and the Fabric Watch thresholds cannot be automatically migrated for use by MAPS. Please refer to the Fabric OS MAPS Administrator's Guide for step-by-step migration instructions.

Users running APM in FOS v7.3 are required to remove all monitors before upgrading to FOS v7.4 by using the following commands:

1. Enter perfdeleemonitor to remove all End-to-end monitors.
2. Enter perfcfgsave to save this change.
3. Enter fmmonitor --delmonitor to remove all filter monitors.
4. Enter fmmonitor --delete *frametype* to remove the specified user-defined frametype.
5. Enter perfttmon --delete to remove all switch level Top Talker monitors.
6. Enter perfttmon --delete fabricmode to remove fabric mode Top Talker monitors.

After upgrading to FOS v7.4, the APM monitors will stop functioning. Users can use the Flow Vision features as part of Fabric Vision for performance monitoring. Please refer to the Fabric OS Flow Vision Administrator's Guide for detailed instructions on removing APM monitors and Flow Vision feature configurations.

Brocade Fabric Vision licenses are required for MAPS and Flow Vision. The combination of Brocade Fabric Watch license and Brocade APM license enables the MAPS and Flow Vision features. For switches with only Fabric Watch licenses or only APM licenses, users can acquire and install the missing license to acquire MAPS and Flow Vision features.

FOS v7.4 New Feature Descriptions

New Hardware Support

FOS v7.4 adds support for the following new hardware:

- Brocade-branded 4GB external USB flash drive

IP Extension features for Brocade 7840

FOS v7.4 introduces IP Extension support for the Brocade 7840. Users can use this capability to extend IP storage for replication and disaster recovery in much the same way as Fibre Channel storage while taking advantage of the compression, encryption, QoS, and trunking features available in the Brocade 7840.

A Brocade 7840 running FOS v7.4 can support both FCIP Extension and IP Extension at the same time. IP Extension includes the following:

- Support for system configuration for IP Extension
- Support for GbE port configuration for IP Extension
- Tunnel configuration for IP Extension
- Adaptive Rate Limiting
- TCP/IP Features
- Traffic Control List

Support System Configuration for IP Extension

FOS v7.4 supports users configuring Brocade 7840 for both FCIP Extension and IP Extension (hybrid mode). By default, Brocade 7840 supports FCIP Extension only. Changing a Brocade 7840 between FCIP-only and hybrid mode requires a switch reboot.

Support GE Port Configuration for IP Extension

FOS v7.4 supports users configuring the front end 1/10 GbE ports as LAN ports on a Brocade 7840 for hybrid mode. These ports are used to connect to IP storage devices on the LAN side. FOS v7.4 supports static Link Aggregation Group (LAG) configuration so that multiple LAN ports can be assigned to the same LAG group.

Tunnel configuration for IP Extension

FOS v7.4 supports user configuration of IP tunnels on a Brocade 7840 in the same way as FC tunnels are configured. IP tunnels and FC tunnels are all represented under virtual E-port (VE). Each VE is configured as a FC-only tunnel or as both FC and IP tunnels. Trunking, QoS, and compression are supported on IP tunnels as they are for FC tunnels.

Adaptive Rate Limiting (ARL)

FOS v7.4 supports all ARL features available on the FCIP Extension for IP Extension. The static distribution of unused bandwidth is hierarchical.

TCP/IP Features

FOS v7.4 supports the following TCP/IP features for IP Extension.

- LAN side jumbo frames
- IPv4 and IPv6 for LAN side
- Maximum 512 TCP connections per Data Processor (DP)
- Maximum 512 TCP open requests per second per DP
- Maximum 64 UDP flows per DP
- DSCP/VLAN L2CoS marking
- Segment Preservation
- Each LAN TCP window will be 64K by default. If TCP window scaling is requested, the maximum advertised window is 256K. The maximum window per connection is 2M irrespective of the advertised window.
- Untagged and single tagged packets are supported.
- Stacked/double (IEEE 802.1ad) tagged packets from hosts are not supported. Packets will be dropped.

Traffic Control List

FOS v7.4 supports Traffic Control List (TCL) to manage and route IP flows. Each TCL is identified by a unique user configured name. FOS v7.4 supports maximum 128 TCLs. System generated default TCL will drop all the incoming packets.

FCIP Enhancements to Brocade 7840

Base Switch Support for 7840

FOS v7.4 enhances Virtual Fabric support on 7840 switches to include the base switch, i.e., to support XISL. Users can configure E_port (ISL over FC), EX_port (IFL over FC), and VE_port (ISL over GE) in base switch. The maximum number of logical switches supported — including the base switch — remains four.

FCIP Hot Code Load (HCL)

FOS v7.4 enhances FCIP HCL support in the following conditions, which were excluded in FOS v7.3.

- Support concurrent FCIP HCL on all 7840 switches in the configuration
- Support multiple sites for FCIP HCL

Monitoring and Alerting Policy Suite (MAPS) Enhancements

FOS v7.4 has a number of important MAPS feature enhancements. These include:

- Basic monitoring without Fabric Vision license
- Monitor NPIV device login limits
- Monitor backend ports
- Monitor FCIP circuit QoS
- Monitor FCIP circuit RTT and jitter on Brocade 7800 and FX8-24 blade
- Fabric Performance Impact monitoring enhancement
- Slow drain device quarantine action for Fabric Performance Impact monitoring
- Port toggle action
- FICON notification action
- Alert quiet time support
- Usability enhancements

Monitoring without Fabric Vision license

FOS v7.4 introduces a new basic monitoring capability in MAPS. The basic monitoring capability allows end users without Fabric Vision licenses on their switches to use MAPS to monitor overall switch status, FRU health, and switch resource categories under the new pre-defined MAPS policy dflt_base_policy.

Monitor NPIV device login limits

FOS v7.4 introduces MAPS monitoring of NPIV login limits. FOS has limits on the number of NPIV devices that can login to a physical F_port. MAPS monitors the percentage of logged in NPIV devices relative to the maximum number of NPIV logins allowed on the F_port to alert users before the limit is reached.

Monitor backend ports

FOS v7.4 introduces back-end port error monitoring in MAPS. Users can take early recovery actions if any of the monitored back-end errors have crossed specified thresholds. Typical recovery actions include SerDes tuning on a switch or reseating blades. For detailed instructions on these actions, please contact your support provider for additional assistance.

Monitor FCIP circuit QoS

FOS v7.4 enhances FCIP QoS monitoring in MAPS to add monitoring of Fibre Channel QoS parameters at circuit level. The circuit QoS monitoring combined with the tunnel QoS monitoring available since FOS v7.3 provides additional granularity to monitor the FCIP link performance.

Monitor FCIP circuit RTT and jitter on 7800 and FX8-24

MAPS monitors circuit round trip time (RTT) and jitter statistics in FOS v7.3 on Brocade 7840. FOS v7.4 supports these two FCIP circuit monitoring elements on Brocade 7800 and FX8-24 blade so that they are available to 8G FC extension platforms.

Fabric Performance Impact monitoring enhancement

FOS v7.4 enhances Fabric Performance Impact (FPI) monitoring to add a new IO_LATENCY_CLEAR state so that end users can receive notification when latency conditions are cleared. FOS v7.4 enhances FPI monitoring by adding latency counter monitoring on all ports to detect potential transient spikes of latency conditions. In addition, FOS v7.4 moves port TX, RX, and UTIL monitoring systems to the FPI category from the Port Health category in FOS v7.3 and earlier releases so that all potential congestion conditions are reported under the FPI category.

Slow drain device quarantine action for Fabric Performance Impact monitoring

FOS v7.4 introduces a new MAPS action that automatically isolates slow drain devices when they are detected by FPI monitoring. This frees up buffer credits for normal devices that are sharing the same links and mitigates the effect due to presence of slow drain devices in the fabric.

Port toggle action for Fabric Performance Impact monitoring

FOS v7.4 introduces Port Toggle as an action which automatically recovers slow drain device conditions when they are detected by FPI monitoring. A port toggle, (which is a port disable followed by a port enable) can recover the ports from some slow drain device conditions or force traffic failover to an alternate path.

FICON notification action

FOS v7.4 introduces FICON notification as a new action that enables MAPS events to be sent to FMS with detailed event information upon rule violations. FMS CUP can translate these MAPS events into FICON-specific Health Summary Check reports.

Alert quiet time support

FOS v7.4 introduces a quiet time support for RASLOG and EMAIL alert actions. This feature allows end users to configure within a rule a period of time not to receive duplicated alerting actions after the first alert has already been sent.

Usability enhancements

FOS v7.4 has a number of usability enhancements to MAPS. These include:

- Allow *none* to be used as an email address to clear previously configured email addresses in the CLI command *mapsconfig*.
- Enhanced Temperature Sensor monitoring so that actions are triggered on change of Temperature Sensor (TS) states.
- Modified FRU monitoring so that the states being monitored are more accurate and useful for operations.
- An upper limit to the number of rules that can be created in a policy. The maximum number of rules in a policy is dependent on the character length of each rule name.

Flow Vision Enhancements

FOS v7.4 provides the following enhancements to Flow Vision:

All F_Port Flow Monitoring

FOS v7.4 introduces a system predefined learning flow named sys_mon_all_fports to monitor performance on all F_ports in a switch. Flow learning on all F_ports provides a continuous, automatic, and comprehensive view of application traffic patterns for all device connections.

Scalability Improvement

FOS v7.4 increases the scalability limit supported by Flow Vision. In particular, the total number of sub-flows supported by chassis switches is increased to 2048 and by fixed port switches is increased to 512.

Identify All Devices in a Flow

FOS v7.4 supports displaying all zoned devices in a flow by introducing a new option -allzoned to the Flow Vision command. This will identify all zoned devices for a flow defined on an E_Port or F_Port.

Fabric Flow Dashboard

FOS v7.4 introduces support of a Flow Dashboard that provides information for a flow from all the available data points in the fabric through which it can pass. With all relevant data summarized for a flow of interest, users are able to more easily troubleshoot and identify the root cause of various issues that may occur.

ClearLink Diagnostic (D_Port) Enhancements

FOS v7.4 implements the following D_Port feature enhancements.

Link Power (dB) Loss Calculation

FOS v7.4 supports calculating TX and RX power loss of a link with D_Port tests. D_Port tests include the power loss calculation to provide additional details on the health of physical media of links.

Dynamic D_Port and On-demand D_Port with DWDM

FOS v7.4 enhances D_port pre-provision feature to allow administrators to pre-provision certain ports connected to DWDM links. With the pre-provisioned list, dynamic D_port and on-demand D_port tests can start automatically on those ports with the optical loopback test skipped.

CLI Command Hierarchical Help Display

FOS v7.4 enhances the help page for D_port CLI commands so that only the relevant sub-options are displayed when a command action is specified for the portCfgDport and portDportTest commands.

Peer Zoning Support

FOS v7.4 introduces support for Peer Zoning as defined in the FC-SW-6 and FC-GS-7 standard. In a Peer Zone configuration, membership in a zone is differentiated into principal members and non-principal or peer members. Peer Zoning configuration allows communication between a principal member and any peer member but does not allow communication between two peer members or between two principal members. By adopting Peer Zoning, users can simplify zoning configuration and management, improve performance, and increase scalability.

Target Driven Zoning support

FOS v7.4 introduces the Target Driven Zoning feature that allows end devices to create Peer Zone configurations through inband commands. This feature enables zoning to be configured by management software on storage devices and reduces the manual configuration needed on switches.

Lossless DLS enhancement

FOS v7.4 introduces a routing enhancement to support lossless Dynamic Load Sharing (DLS) in a 2-hop topology. This enhancement allows adding links or switches in existing paths that are up to 2 hops between a host and a target, including the new link that is coming online, to ensure lossless and in-order frame delivery.

FCR enhancements

FOS v7.4 has a number of enhancements in FCR. These enhancements include:

Location Embedded LSAN zone

FOS v7.4 introduces the location-embedded LSAN zone feature. A location-embedded LSAN zone specifies in the LSAN zone name the remote fabric ID that shares devices. The corresponding FCR switch will use this information in the LSAN zone names to store only these entries for the locally connected edge fabric. As a result. users are now able to configure more LSAN zones across a backbone fabric.

Increase Number of Imported Proxy Devices

FOS v7.4 increases the maximum number of proxy devices that can be imported into each edge fabric to 4000. This limit applies to the cumulative number of all proxy devices created on all translate domains in the edge fabric. FOS versions prior to v7.4 support 2000 proxy devices as the limit for this number.

Sort WWNs in *lsanzoneshow* CLI

FOS v7.4 supports sorting WWNs in the CLI command lsanzoneshow output. A new -o or -sort option is added to the CLI command to display entries in sorted order by WWNs for each LSAN zone listing.

Support Port Range for *portcfgexport* and *portcfgvexport* CLI

FOS v7.4 supports port range as input parameters for the portcfgexport and portvexport CLI commands so that multiple ports can be configured as EX-port or VEX-port at the same time.

Support Peer Zoning with FCR

FOS v7.4 supports Peer Zoning in LSAN zones if users have configured a peer zone in an edge fabric. Peer zoning rules and RSCN distribution will be enforced by edge fabric switches.

Support New Domain ID Range for Front and Translate Phantom Domains

FOS v7.4 supports assigning for an FCR the front domain ID in the range of 160 through 199 and the translate domain ID in the range of 200 through 239. Users can use the CLI command *fcrConfigure -- resetPhantomDomain* to use the new range to avoid conflicting with the real switch domain IDs.

Security Enhancements

FOS v7.4 has a number of important security enhancements:

Obfuscation of RADIUS Shared Secrets

FOS v7.4 supports obfuscation of the RADIUS shared secrets so that they are not stored as plaintext. With this option, stored shared secrets are not visible as plaintext in configUpload files and SupportSave files.

Import/Export Syslog Server Certificates

FOS v7.4 adds the support of importing and exporting a syslog server certificate to support syslog over TLS. A syslog server CA certificate can be imported from a remote host or exported to a remote host.

Password Policy Enhancement for Root Password Change

FOS v7.4 adds a new option in the switch account password policy to allow root password change by root account login sessions without prompting for the existing (old) password.

secCryptoCfg CLI Command

FOS v7.4 supports a new CLI secCryptoCfg command to configure the set of acceptable cryptographic algorithms for the SSH and HTTPS protocols on a switch. Administrators can use this new CLI command to mandate various cryptographic algorithms conform to their policies.

Default Account Password Change

FOS v7.4 modifies the behavior of default switch account password change. Login to admin account would only prompt changes to the default admin and user account passwords. The default root and factory account passwords change would only be prompted when login to the switch as root.

Time Server Enhancements

FOS v7.4 enhances Time Server to support Network Time Protocol (NTP) server configuration distribution to Access Gateway switches. This enhancement allows AGs, including cascaded AG connections, to receive the same NTP server configuration from a connected fabric.

SNMP Enhancements

FOS v7.4 implements the following SNMP enhancements.

Log Messages for SNMPv3 Authentication

FOS v7.4 logs SNMP authentication success and failure as audit log messages to track the authentication results for SNMPv3 requests.

SNMPv3 Individual Inform Tag

FOS v7.4 enhances SNMPv3 configuration to allow SNMP informs to be enabled or disabled at individual receiver host level. With this enhancement, users can configure some receivers to get SNMP informs, while other receivers get SNMP traps.

Disable SNMP Write Access

FOS v7.4 changes the default SNMP configuration to have SNMP write disabled. This affects the default switch configuration loaded with FOS v7.4 on a new switch from factory.

Obsoletes Fabric Watch and Advanced Performance Monitoring MIBs

FOS v7.4 obsoletes the following MIBs associated with Fabric Watch and Advanced Performance Monitoring feature: swFwSystem, swBlmPerfMnt, swTopTalker.

RDP Enhancements

FOS v7.4 enhances the Read Diagnostic Parameter (RDP) support which includes the following:

- Enable polling to refresh RDP data cache at a default 4 hour interval.

- Include signal power loss information in the *sfpShow --link* or *sfpShow --pid* options.

- Include corrected and uncorrected FEC blocks in *portShow --link* or *portShow --pid* options.

Firmware Download Enhancements

FOS v7.4 introduces the following important enhancements for firmware download.

Staged Firmware Download

FOS v7.4 supports staged firmware download so that users can download firmware package to a switch first and choose to install and activate the downloaded firmware at a later time.

Firmware Clean Installation

FOS v7.4 supports firmware clean installation. This installs a firmware package without retaining the existing configuration or maintaining HA. With this feature, customers receiving a new switch from factory can install firmware in a single step to the desired version that their networks are running, without going through multiple steps of non-disruptive firmware download.

Firmware Auto Sync Enhancement

FOS v7.4 enhances the firmware auto sync feature to support automatic synchronization of firmware versions on a standby CP with a version different from the active CP. If an active CP runs FOS v7.4 or higher:

- A standby CP with firmware version as early as FOS v6.4 can be upgraded automatically.

- A standby CP with firmware version later than FOS v7.4 can be downgraded automatically.

Firmware Integrity Check

FOS v7.4 introduces a firmwareCheck CLI command to check the integrity of firmware packages already installed on the switch. If any of the files or packages as part of firmware has been changed, the firmware integrity check will fail and notify users which package has failed the check.

Challenge-Response Authentication

FOS v7.4 introduces support for SSH servers configured with "keyboard-interactive" as defined in IETF RFC 4256 as authentication method to be used with SCP or SFTP for firmware download, support save, and config upload/download commands. With this SSH server configuration, FOS v7.4 only supports account passwords as a form of challenge-response authentication.

RAS Enhancements

FOS v7.4 supports the following RAS enhancements:

WWN Card Replacement Enhancements

FOS v7.4 enhances the procedure for field replacement of WWN cards in chassis based systems. WWN cards are chassis FRUs that contain chassis WWNs and other information. Each chassis has two WWN cards for redundancy. FOS v7.4 enhances WWN card handling so that certain error or data corruptions associated with WWN cards can be recovered in the field.After users replace a single defective WWN card with a new one, some data can be restored from the current/non-defective WWN card to the newly replaced WWN card. In addition, the system periodically checks the integrity of the WWN cards and logs RASLOG error messages if problems are detected.

Show RASLOG Messages within a Timeframe

FOS v7.4 adds options to errdump and errshow CLI command so that only RASLOG messages within the specified beginning and end time will be shown, instead of all RASLOG messages.

Audit Log Enhancements

FOS v7.4 enables audit log by default for all classes of messages. FOS v7.4 increases the maximum number of audit log messages stored on a switch to 1024 from 256.

Clihistory Identify Command Virtual Fabric FID

FOS v7.4 enhances cliHistory so that FID contexts will be shown along with the command line. With this enhancement, clihistory in a support save file includes the FID information for support and debug usage.

Zoning Enhancements

FOS v7.4 adds the following enhancements to standard zoning to simplify zoning configuration:

List Zones with Specific Alias

FOS v7.4 adds support to zoneshow command to display only the zone configurations that match a given alias instead of the entire zone database. Administrators can use this enhancement to quickly locate certain zone configurations that contain a specific alias or alias prefix.

Sort zoneShow Command Output by WWN

FOS v7.4 enhances the *zoneShow --sort* command output in sorted order for both (D,I) and WWN members.

Indicate offline members in zoneShow output

FOS v7.4 provides a new option *--validate* to the zoneshow command to indicate members in the configuration but not online in the fabric. Administrators can use this enhancement to quickly discover the online and offline members in a zone configuration.

Traffic Isolation (TI) Zoning Enforcement enhancement

FOS v7.4 enhances TI zoning rule enforcement so that devices connected to the same local switch are also enforced by the TI zoning rule.

TI Failover Disabled Zone Message

FOS v7.4 adds a RASLOG message ZONE-1060 to warn users if the TI zone dedicated path is the only path available between two domain IDs.

FICON Enhancements

FOS v7.4 adds the following FICON related enhancements :

MAPS notification to FMS CUP

FOS v7.4 supports a new MAPS FICON notification action. With this action, MAPS rule violations can trigger notifications to the FMS host as Health Summary Code reports.

ConfigUpload and ConfigDownload of FMS Mode

FOS v7.4 enhances configUpload and configDownload to ensure that a configDownload can turn ON the FMS mode in a logical switch that had FMS mode OFF.

D_Port Support in Port Descriptor

FOS v7.4 reports the state of an FC port in D_Port mode to the HOST with the Port Information Block (PIB).

Miscellaneous Enhancements

Login to Logical Switch IP

FOS v7.4 enhances Logical Switch IP address support so that logins using the logical switch IP address automatically set the user VF context to the logical switch associated with the IP address.

Dynamic Switch Port Names

FOS v7.4 introduces a dynamic port name feature to automatically assign port names on a switch based on a default standard format and port types. Users can enable and disable the "Dynamic port name feature" with the configure CLI command.

Port Index Support for CLI Command portErrShow and portTestShow

FOS v7.4 enhances the portErrShow and portTestShow command to support port index as inputs, in addition to the existing slot/port as input.

Link Reset on Loss of Sync

FOS v7.4 enhances credit recovery on backend links for 8G platforms by performing link reset (LR) on loss of sync (LOS) events. This enhancements applies to a port where a loss of sync is detected and the peer port of the backend link is on a 8G platform.

Enhance switchShow CLI Output

FOS v7.4 modifies switchshow -portname command output to display the port PWWN of the switch ports along with the port names.

portLoginShow Command with History Option

FOS v7.4 enhances the portLoginShow CLI to display details of the device that last logged out from a port. This enhancement supports the port login types of "fe" for FLOGI devices and "fd" for FDISC devices. Users can use the -history option to show the device logout information.

Port Peer Beacon Support EX-Port

FOS v7.4 enhances port peer beacon (LCB) feature to support links with EX-ports.

BufOpMode for FC Gen5 Blades

FOS v7.4 adds support of Buffer Optimization Mode (BufOpMode) for FC Gen5 core blades and port blades. The BufOpMode enables non-local switching in an edge ASIC chip where both E-port and F-port exist.

portStatsShow Command Display TXQ Latency

FOS v7.4 enhances the portStatsShow CLI command to display the ASIC transmit queue (TXQ) latency information for each virtual channel (VC).

Support De-bouncing of Loss of Signal for Fixed Speed and Auto Negotiate Ports

FOS v7.4 expands loss of signal de-bouncing for both fixed-speed and auto-negotiated ports in any port state. FOS v7.4 adds a "mode 2" option for the portcfglosstov CLI command to enable for both fixed-speed ports and auto-negotiate ports.

Backend Link Failure Blade Fault Option

FOS v7.4 enhances back-end link failure handling. With this enhancement, when back-end link failure is detected, the link is re-initialized first and the blade is faulted only when re-initialization fails. In addition, a blade would not be faulted if there is another online port within the trunk.

DLS Support on Embedded Switches

FOS v7.4 supports DLS on the embedded platforms. Earlier FOS versions do not support dynamic load sharing (DLS) on the FC embedded platforms.

New portChannelShow CLI Command

FOS v7.4 adds a CLI command portChannelShow to display a DPS group for one or all reachable domains.

Support preserving port2area and area2port mappings with configUpload and configDownload

FOS v7.4 supports uploading and downloading the port2area and area2port mapping tables in a configuration file for all logical switches in a chassis through the new -map option with the existing configUpload and configDownload CLI command.

Optionally Licensed Software

Fabric OS v7.4 includes all basic switch and fabric support software, as well as optionally licensed software that is enabled via license keys.

Optionally licensed features include:

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

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).

Note: If a port on 16G FC blades or a 16G switch is configured to operate at 10G speed, Extended fabrics license is not needed to enable long distance connectivity on that port.

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 Advanced Performance Monitoring — All Advanced Performance Monitoring features are obsolete in FOS v7.4. This license remains to provide end users with Fabric Watch license to upgrade to Fabric Vision capabilities.

Brocade Fabric Watch — All Fabric Watch features are obsolete in FOS v7.4. This license remains to provide end users with Advanced Performance Monitoring license to upgrade to Fabric Vision capabilities.

Brocade Fabric Vision — Enables MAPS (Monitoring and Alerting Policy Suite), Flow Vision, and ClearLink (D_Port) 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 allows extensive diagnostic testing of links to devices other than Brocade switches and adapters.

FICON Management Server — Also known as "CUP" (Control Unit Port), enables host-control of switches in Mainframe environments.

Enhanced Group Management — This license enables full management of devices in a data center fabric with deeper element management functionality and greater management task aggregation throughout the environment. This license is used in conjunction with Brocade Network Advisor application software and is applicable to all FC platforms supported by FOS v7.0 or later.

Note: This capability is enabled by default on all Gen 5 65XX model switches and DCX 8510 platforms, and on DCX and DCX-4S platforms that are running Fabric OS v7.0.0 or later. Gen 5 embedded switches receive this capability by default with FOS v7.2.1 and later. Individual upgrade is required when upgrading directly to FOS v7.2.1 on Gen 5 embedded switches. Subsequent group operations on Gen 5 embedded switches including group upgrade are supported.

Adaptive Networking with QoS — This license was deprecated beginning with FOS v7.2. All functionality enabled by the license is now part of base FOS firmware capabilities.

Server Application Optimization — This license was deprecated beginning with FOS v7.2. All functionality enabled by the license is now part of base FOS firmware capabilities.

Integrated Routing — This license allows any port in a DCX 8510-8, DCX 8510-4, Brocade 6510, Brocade 6520, DCX-4S, DCX, 5300, 5100, 7800, 7840, or Brocade Encryption Switch to be configured as an Ex_port or VEx_port (on some platforms) supporting Fibre Channel Routing.

Advanced Extension — This license enables two advanced extension features: FCIP Trunking and Adaptive Rate Limiting. The FCIP Trunking feature allows multiple IP source and destination address pairs (defined as FCIP Circuits) via multiple 1GbE or 10GbE interfaces to provide a high bandwidth FCIP tunnel and failover resiliency. In addition, each FCIP circuit supports four QoS classes (Class-F, High, Medium and Low Priority), each as a TCP connection. The Adaptive Rate Limiting feature provides a minimum bandwidth guarantee for each tunnel with full utilization of the available network bandwidth without impacting throughput performance under high traffic load. This license is available on the 7800, 7840, and the DCX/DCX-4S/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 Brocade 7840 or Brocade 6505.

On FX8-24:

With this license installed and assigned to a slot with an FX8-24 blade, two additional operating modes (in addition to 10 1GbE ports mode) can be selected:

- 10 1GbE ports and 1 10GbE port, or
- 2 10GbE 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.

This license is available on the DCX/DCX-4S/DCX 8510-8/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 7800, 7840, and the DCX/DCX-4S/DCX 8510-8/DCX 8510-4 for the FX8-24 on an individual slot basis.

7800 Port Upgrade — This license allows a Brocade 7800 to enable 16 FC ports (instead of the base four ports) and six GbE ports (instead of the base two ports). This license is also required to enable additional FCIP tunnels and also for advanced capabilities like tape read/write pipelining.

Temporary License Support

The following licenses are available in FOS v7.4 as Universal Temporary or regular temporary licenses:

- Fabric (E_Port) license
- Extended Fabric license
- Trunking license
- High Performance Extension license
- Advanced Performance Monitoring license (feature not supported)
- Fabric Watch license (feature not supported)
- Integrated Routing 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.

Supported Switches

FOS v7.4.2e supports the following platforms:

- 300, 7800
- M5424, 5430, 5431, 5432, 5450, 5460, 5470, 5480, NC-5480

Access Gateway mode is also supported by Fabric OS v7.4, and is supported on the following switches: the Brocade 300, 5430, 5431, 5432, 5450, 5460, 5470, 5480, NC-5480, M5424.

Use of this Fabric OS release on a switch that has reached its end of support date will result in restricted use of some support level functions. Firmwaredownload, SupportSave and other support commands will not be available. All other basic operational capabilities will be unaffected.

Standards Compliance

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:

The FCOE10-24 blade conforms to the following Ethernet standards:

- IEEE 802.1D   Spanning Tree Protocol
- IEEE 802.1s   Multiple Spanning Tree
- IEEE 802.1w   Rapid reconfiguration of Spanning Tree Protocol
- IEEE 802.3ad   Link Aggregation with LACP
- IEEE 802.3ae   10G Ethernet
- IEEE 802.1Q   VLAN Tagging
- IEEE 802.1p   Class of Service Prioritization and Tagging
- IEEE 802.1v   VLAN Classification by Protocol and Port
- IEEE 802.1AB   Link Layer Discovery Protocol (LLDP)
- IEEE 802.3x   Flow Control (Pause Frames)

The following draft versions of the Converged Enhanced Ethernet (CEE) and Fibre Channel over Ethernet (FCoE) Standards are also supported on the FCOE10-24 blade:

- IEEE 802.1Qbb   Priority-based Flow Control
- IEEE 802.1Qaz   Enhanced Transmission Selection
- IEEE 802.1   DCB Capability Exchange Protocol (Proposed under the DCB Task Group of IEEE 802.1 Working Group)
- FC-BB-5   FCoE (Rev 2.0)

Technical Support

Contact your switch supplier for hardware, firmware, and software support, including product repairs and part ordering. To expedite your call, have the following information immediately available:

1. General Information

    o   Technical Support contract number, if applicable

    o   Switch model

    o   Switch operating system version

    o   Error numbers and messages received

    o   **supportSave** command output and associated files

    o   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

    o   Detailed description of the problem, including the switch or fabric behavior immediately following the problem, and specific questions

    o   Description of any troubleshooting steps already performed and the results

    o   Serial console and Telnet session logs

    o   Syslog message logs

2. Switch Serial Number

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

    FT00X0054E9

    AVS0305E012

    The serial number label is located as follows:

    o   Brocade 300— On the switch ID pull-out tab located on the bottom of the port side of the switch

    o   Brocade 7800— 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)

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.

FOS Migration Considerations

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

FOS Upgrade and Downgrade Special Considerations

Peer zoning and target driven zoning should be used in a fabric with all switches running FOS v7.4 or later. If peer zones have been created in a mixed fabric with switches running FOS v7.3 and FOS 7.4, peer zones created with FOS 7.4 switch are distributed to FOS 7.3 switches. When the FOS v7.3 switches are upgraded to FOS v7.4, traffic disruption may occur on these switches.

Any firmware activation on Brocade 7800 will disrupt I/O traffic on the FCIP links.

For FCIP, the best practice is to always operate the switch or blade at both ends of the tunnel with the same level of Fabric OS, down to the maintenance release. Fabric OS upgrades should be done on both ends of the FCIP tunnel concurrently.

Disruptive upgrades to Fabric OS v7.4.2f are not allowed or supported directly from FOS v7.2.x using the optional "-s" parameter with the *firmwaredownload* command. Firmware upgrade from FOS v7.2.x to FOS v7.4.2f requires firmware upgrade to FOS v7.3.x first and then upgrade to FOS v7.4.x.

Disruptive downgrades from FOS v7.4.2f to FOS v7.2.x using the optional "-s" parameter with the *firmwaredownload* command are not allowed or supported on fixed-platform switches.

Recommended Migration Paths to FOS v7.4.2f

Migrating from FOS v7.3

- Any supported 8G platform running any FOS v7.3.x firmware can be non-disruptively upgraded to FOS v7.4.2f.

Migrating from FOS v7.2

- Any supported 8G platform operating at FOS v7.2.x must be upgraded to FOS v7.3.x before upgrading to FOS v7.4.2f.
- Disruptive upgrade to FOS v7.4.2f from FOS v7.2 is not supported.

Important Notes

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

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. For SAN Management, Network Advisor 14.4.3 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 backbone and director products (DCX 8510-4), 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 Brocade 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 DCX Backbone (DCX 8510-8) and Fiber Connectivity (FICON) capabilities.

More details about Network Advisor's new enhancements can be found in the *Network Advisor 14.4.3 Release Notes*, *Network Advisor 14.4.3 User Guide*, and *Network Advisor 14.4.3 Installation, Migration, & Transition Guides*.

Notes:

- Brocade Network Advisor 14.4.3 or later is required to manage switches running FOS 7.4.2f or later.
- The Brocade Network Advisor seed switch should always have the highest FOS version used in the fabric.

WebTools Compatibility

FOS v7.4.0 is qualified and supported with Oracle Java version 7 update 76 and Java version 8 update 66. The Java code signing certificate for WebTools in this version of FOS expires on November 13, 2020. 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 FOS v7.4. If users want to manage a switch running FOS v7.4 using SMI-S interface, they must use SMI agent integrated in either Professional Plus or Enterprise edition of Brocade Network Advisor.

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 FOS 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 Web site: https://www.broadcom.com/support/fibre-channel-networking/eol

Supported Products and FOS Interoperability	
Brocade 5430, 5431, 5432, 5480, 5424, 5450, 5460, 5470, NC-5480	v7.4.2 or later
Brocade 300	v7.4.2 or later
Brocade 7800	v7.4.2 or later
Brocade DCX 8510-8/DCX 8510-4	v8.0.2 or later
Brocade DCX 8510-8/DCX 8510-4 with FC16-64 blade	v8.0.2 or later
Brocade 6505, 6510, 6520	v8.0.2 or later
Brocade 7840	v8.0.2 or later
Brocade 6547, 6548, M6505, 6545, 6546	v8.0.2 or later

SNMP Support

FOS v7.4.0 documents the supported MIBs in the Fabric OS MIB Reference document.

For information about SNMP support in Fabric Operating System (FOS) and how to use MIBs, see the Fabric OS Administrator's Guide.

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. Go to https://www.broadcom.com/mybroadcom/, click **Login**, and enter your username and password. If you do not have an account, click **Register** to set up your account.
2. Select **Customer Support Portal > DocSafe (Software/Document Downloads)**.
3. Choose one of the following:
    - Enter the product name or the software version number in the **Search** box. For example, the following search is for software and documentation files for software version 8.2.

    - Click the **Product Search** box, select **FIBRE CHANNEL NETWORKING**, and select a product from the product list.
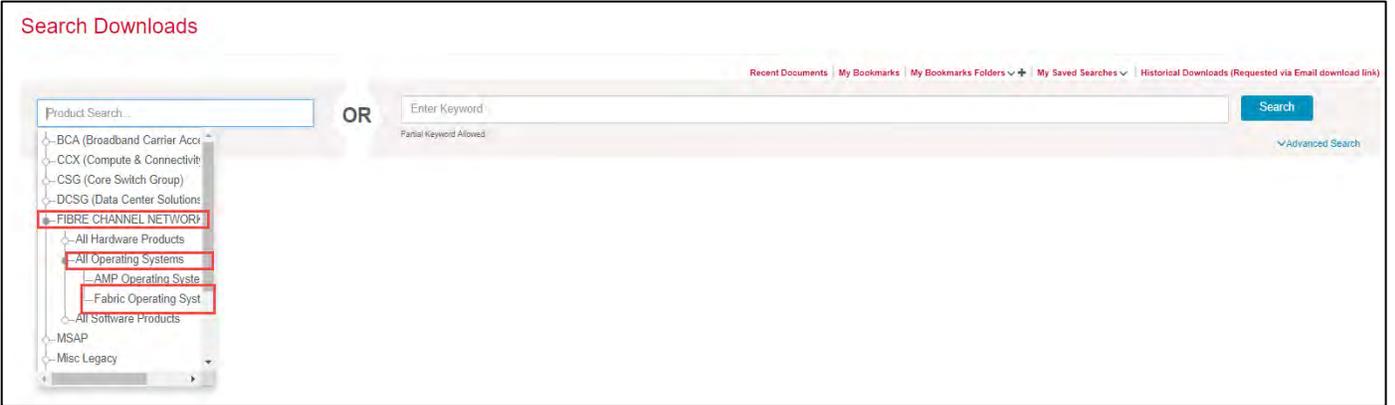
The list of documents and software available for the product appears.

4. 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.

Scalability

All scalability limits are subject to change. Limits may be increased once further testing has been completed, even after the release of Fabric OS. For current scalability limits for Fabric OS, , complete the following steps.

1. Go to https://www.broadcom.com/mybroadcom/, click **Login**, and enter your username and password. If you do not have an account, click **Register** to set up your account.
2. Select Customer **Support Portal > DocSafe (Software/Document Downloads)**.
3. Choose one of the following:

   ▪ Enter the product name or the software version number in the **Search** box. For example, the following search is for software and documentation files for software version 8.2.

   ▪ Click the **Product Search** box, select **FIBRE CHANNEL NETWORKING**, and select a product from the product list.
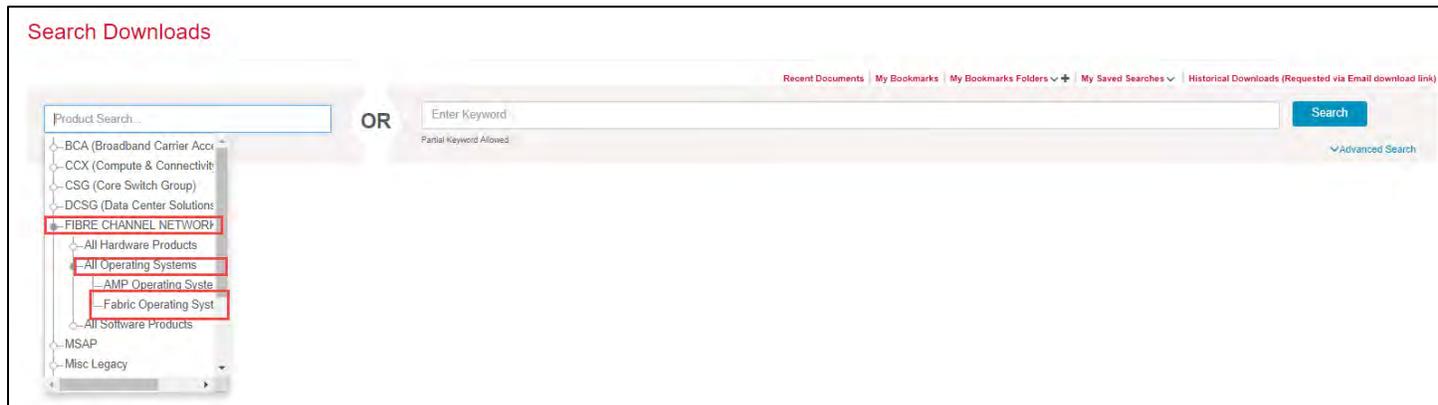
   The list of documents and software available for the product appears.
4. Clear the Software box to list only documents and release notes.

Other Important Notes and Recommendations

Adaptive Networking/Flow-Based QoS Prioritization

- Any 8G or 4G FC platform running FOS v6.2.2e or lower version of firmware cannot form an E-port with a 16G FC platform when Adaptive Networking QoS is enabled at both ends of the ISL. Users must disable QoS at either end of the ISL in order to successfully form an E-port under this condition.

  Users can disable QoS via portcfgQos --disable command. Please consult Fabric OS Command Reference manual for details related to portcfgQoS command.

- When using QoS in a fabric with 4G ports or switches, FOS v6.2.2 or later must be installed on all 4G products in order to pass QoS info. E_Ports from the DCX to other switches must come up AFTER 6.2.2 is running on those switches.

- When FOS is upgraded from v7.1.x to v7.2.0 or later:

    o If the Adaptive Networking license was NOT installed in v7.1.x, all ports will have QOS disabled following the firmware upgrade and links will come up in normal mode.

    o If the Adaptive Networking license was installed in v7.1.x, there will be no change in port QOS mode following the upgrade.

    o If the remote port supports QOS and QOS is not explicitly disabled on the local or remote port, the link will come up in QOS mode. Otherwise, the link will come up in normal mode.

- If FOS v7.2 or later is factory installed (or by firmwarecleaninstall), Adaptive Networking features are always available. This matches the behavior of the Brocade 6520 and all products shipping with prior versions of FOS and with the Adaptive Networking license factory installed.

    o Ports will come up in AE mode by default

    o If the remote port supports QOS and is not explicitly disabled, the link will come up in QOS mode. Otherwise, the link will come up in normal mode.

D_Port

- The 16Gb QSFP optics used in FC16-64 blade do not support electrical loopback and optical loopback tests. Support is limited to:
    o Link traffic tests across the 16Gb QSFPs
    o Roundtrip link latency measurements
    o Link distance measurements for links that are longer than 100 meter

- D_Port support with HBA/Adapter from Qlogic and Emulex begins with FOS v7.3.0a. FOS v7.3.1a or earlier FOS versions require the Fabric Vision license to support D_Port with 3rd party vendor HBAs. FOS v7.4.0 adds the support for D_Port with 3rd party vendor HBAs with the combination of Fabric Watch license and Advanced Performance Monitoring license. Please refer to Qlogic and Emulex documentation for specific adapter models and firmware levels required.

Edge Hold Time

- Edge Hold Time (EHT) default settings for FOS v7.x have changed from those in some FOS v6.4.x releases. The following table shows the Default EHT value based on different FOS release levels originally installed at the factory:

Factory Installed Version of FOS	Default EHT Value
FOS v7.X	220 ms
FOS v6.4.3x	500 ms
FOS v6.4.2x	500 ms
FOS v6.4.1x	220 ms
FOS v6.4.0x	500 ms
Any version prior to FOS v6.4.0	500 ms

Gen 5 platforms and blades are capable of setting an EHT value on an individual port basis. On 8G platforms EHT is set on an ASIC-wide basis, meaning all ports on a common ASIC will have the same EHT setting. Extra care should be given when configuring EHT on 8G platforms or Gen 5 platforms with 8G blades to ensure E_Ports are configured with an appropriate Hold Time setting.

When using Virtual Fabrics and creating a new Logical Switch when running FOS v7.1.0 or later, the default EHT setting for the new Logical Switch will be the FOS default value of 220ms. However, with FOS v7.1.0 and later, each Logical Switch can be configured with a unique EHT setting that is independent of other Logical Switches and the Default Switch. Any Gen 5 ports (Condor3 based) assigned to that Logical Switch will be configured with that Logical Switch's EHT setting. Any 8G ports (Condor2 based) will continue to share the EHT value configured for the Default Switch.

FCIP (Brocade 7800)

- Any firmware activation will disrupt I/O traffic on FCIP links.

- Latency measurements supported on FCIP Tunnels:1GbE & 10GbE - 200ms round trip time and 1% loss.

- After inserting a 4G SFP in GE ports of a 7800 switch, sometimes "sfpshow" output might display "Cannot read serial data!". Removing and re-inserting the SFP should resolve this issue. It is recommended that users perform sfpshow immediately after inserting the SFP and ensure SFP is seated properly before connecting the cables.

- When running FOS v7.2.0 or later, if the new FCIP Circuit Group feature is configured on any FCIP Circuits, a downgrade operation to pre-FOS v7.2.0 will be blocked until the feature is removed from the FCIP configuration(s).

- Under very rare conditions, 7800 switches may set to faulty with code 2004c during firmwaredownload or hareboot. This could be caused by internal communication link initialization failure after a reset. The switch can be easily recovered by power cycling. Supportsave should be taken before power cycling the switch to ensure the fault reason can be investigated by technical support providers.

FCR and Integrated Routing

- With routing and dual backbone fabrics, the backbone fabric ID must be changed to keep the IDs unique.

- VEX edge to VEX edge device sharing will not be supported.

- The man page and help display of *fcrlsanmatrix --display* and *fcrlsan --show* command syntax should be corrected as below:

  fcrlsanmatrix --display -lsan | -fcr | -all

  fcrlsan --show -enforce | -speed | -all

Forward Error Correction (FEC)

- Though FEC capability is generally supported on Condor3 (16G capable FC) ports when operating at either 10G or 16G speed, it is not supported with all DWDM links. Hence FEC may need to be disabled on Condor3 ports when using DWDM links with some vendors by using 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 7.x Compatibility Matrix for supported DWDM equipment and restrictions on FEC use.

- To connect between a switch and an HBA at 16 Gbps, both sides must be in the same mode (fixed speed, and FEC on or off) for them to communicate at that rate. If only one port has FEC enabled, neither port will be able to see the other. If the ports are in dynamic mode, then they may connect, but not at 16 Gbps.

FICON

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

FL_Port (Loop) Support

- The FC8-48 and FC8-64 blade support attachment of loop devices.

- Virtual Fabrics must be enabled on the chassis and loop devices may only be attached to ports on a 48-port or 64-port blade assigned to a non-Default Logical Switch operating with the default 10-bit addressing mode (they may not be in the default Logical Switch).

- A maximum of 144 ports may be used for connectivity to loop devices in a single Logical Switch within a chassis in 10-bit dynamic area mode on DCX-4S.

- A maximum of 112 ports may be used for connectivity to loop devices in a single Logical Switch within a chassis in 10-bit dynamic area mode on DCX.

- Loop devices continue to be supported when attached to ports on the FC8-16, FC8-32   with no new restrictions.

Flow Vision

- Users must not specify well known FC addresses, domain controller addresses or CUP Port ID (in FMS mode) for either the source or the destination device field while defining flows.

- Flow Vision does not support port swap. Users must not create flows on ports that are already swapped and users must not swap the ports on which the flows are currently defined.

- After a HA reboot, a flow generator flow can be created if the source or the destination port is F-Port. But traffic will not be initiated. Toggling the port will enforce the restriction again to simulated ports.

- Flow Monitor does not support flows with defined LUN parameters on ingress ports on 8G platforms.

- Flow Generator traffic over VE port is supported only if no other traffic is running on any of the VE ports on that blade or switch platform. If Flow Generator traffic is run over a VE port and production traffic is run over another VE port, then the production traffic may be effected..

- The all F-Port learning flow *sys_mon_all_fport* does not support fabric mode. In a chassis with virtual fabric enabled, this flow can only be activated for a logical switch at a time.

Port Initialization

Users may observe that a port is in "Port Throttled" state when an F_Port is being initialized. This is mostly an informational message that is shown in switchshow output indicating systematic initialization of F_Ports.

However, a port may remain in "Port Throttled" state for an extended period of time and may never come online if it fails to negotiate speed successfully with the neighboring port. Users are advised to check the speed setting of the neighboring switch port to determine the cause of the speed negotiation failure.

Example Output:

```
74   9   10   36ed40   id   N8      In_Sync   FC   Disabled (Port Throttled)
```

Port Mirroring

- Port Mirroring is not supported on the Brocade 7800.

Virtual Fabrics

- When creating Logical Fabrics that include switches that are not Virtual Fabrics capable, it is possible to have two Logical Switches with different FIDs in the same fabric connected via a VF incapable switch. Extra caution should be used to verify the FIDs match for all switches in the same Logical Fabric.

- A switch with Virtual Fabrics enabled may not participate in a fabric that is using Password Database distribution or Administrative Domains. The Virtual Fabrics feature must be disabled prior to deploying in a fabric using these features.

- ISL R_RDY mode is not supported in a base switch with FOS version 7.0 or higher.

WebTools

- WebTools since FOS v7.1.0 has a "SupportSave" interface. It only collects, however, information specific to WebTools. It does not contain the same information as collected by supportSave initiated through CLI or Brocade Network Advisor.

- When launching WebTools on a computer without Internet access, it could take up to 5 minutes to complete because the certificate revocation check performed for the WebTools application takes time to timeout. Users can turn off the certification revocation check on the Java control panel as a workaround.

- FOS v7.4.0 is qualified and supported with Oracle Java version 7 update 76 and Java version 8 update 66. Oracle enforces the latest JRE update to be used to launch WebTools. After JRE expiration date users will see the message "Your Java version is out of date" when launching WebTools. Users can either ignore the message by selecting the later option to proceed with launching WebTools, or install the latest JRE release and then launch WebTools.

Zoning

- There are limitations to zoning operations that can be performed from a FOS v6.x switch that is in the same fabric as a FOS v7.0 or later switch if the FOS v6.x switch is not running the recommended firmware version. Please see Fabric OS Interoperability section for details.

- Peer zoning and target driven zoning should be used in a fabric with all switches running FOS v7.4 or later. If peer zones have been created in a mixed fabric with switches running FOS v7.3 and FOS 7.4, peer zones created with FOS 7.4 switch are distributed to FOS 7.3 switches. When the FOS v7.3 switches are upgraded to FOS v7.4, traffic disruption may occur on these switches.

Read Diagnostics Parameters

- RDP on FOS v7.4 is not compatible with RDP on FOS v7.3 switches. FOS v7.3 only supports the Read Diagnostics Parameters (RDP) feature between Brocade switches both running FOS v7.3.

Link Cable Beaconing

- The Link Cable Beaconing (LCB) feature on FOS v7.4 is not compatible with the implementation in FOS v7.3.0 – FOS v7.3.0c. LCB is only supported on ISLs between two Brocade switches both running FOS v7.3.0 – FOS v7.3.0c, or both running FOS v7.3.1 or above.Support with third party vendor devices is only available with FOS v7.3.1 or above with fix for defect 540720.

Miscellaneous

- Users must also keep the RADIUS accounting port (Authentication Port+1) open in the firewall to ensure proper working of the RADIUS authentication.

- Using a Windows anonymous FTP server for supportsave collection:

- When using anonymous ftp, to avoid long delays or failure of simultaneous supportsave collections when AP blades are present in a director chassis, the number of unlimited anonymous users for a Windows FTP server should be configured as follows:

- Number of anonymous FTP connections = (Number of director chassis) + (Number of installed Application Blades x 3)

- RASlog message AN-1010 may be seen occasionally indicating "Severe latency bottleneck detected". Even though it is a "Warning" message, it is likely to be a false alarm and can be ignored.

- It is important to note that the outputs of *slotshow –p* and *chassisShow* commands also display the maximum allowed power consumption per slot. These are absolute maximum values and should not be confused with the real-time power consumption on 16G blades. The chassisshow command has a "Power Usage (Watts):" field that shows the actual power consumed in real-time on 16G blades.

- The QSFP information in the *sfpShow* output will indicate the ID field as all zeros. This is as designed.

    ras080:FID128:root> sfpshow 5/32

    QSFP No: 8 Channel No:0

    Identifier: 13   QSFP+

    Connector: 12   MPO Parallel Optic

    Transceiver: **0000000000000000** 16_Gbps id

- It is recommended that for directors with more than 300 E_Ports, the switch be disabled prior to executing the "switchCfgTrunk" command (used to disable or enable trunking on the switch).

- During non-disruptive firmware upgrades, E_Ports in R-RDY mode may cause some frame drops on the E-port links.

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

- For login authentication through RADIUS, Brocade switch should be able to reach RADIUS servers through TCP authentication port (default 1812) and accounting port (default 1813). Both of these ports must be kept open in any firewall settings.

- When a firmware upgrade on a Brocade 6510 switch initiated through Brocade Network Advisor results with "failed to enforce new iptable rules" error message, the switch could be inaccessible via SSH and/or Telnet. Activating (from console) a new policy with the rules of the default active policy will restore access to the switch.

- The Location ID parameter under the *configure* CLI affects routing calculations, and should remain set to the default value of 0 for normal use. Do not change the value unless explicitly instructed to do so by a Brocade Support engineer.

- Fabric OS Command Reference contains an error for the command *creditRecovMode*. The *creditRecovMode --fe_crdloss* configures time-out based credit loss detection of Condor-2 front-end ISL links. However, this feature is NOT enabled by default.

- The maximum number of ports supported for slow drain device quarantine in the same zone with a slow-draining device port is 32. If the 32-port zone limit is exceeded, the quarantine action will not be taken. Once the 32-port zone limit is reached, any new zoned device or port coming online will not be quarantined.

- After firmware upgrade to FOS v7.4.0x, all audit event classes are enabled by default, even for the disabled ones before firmware upgrade. Please run auditcfg again to disable events that should not be enabled.

Security Vulnerability Fixes

This section lists the Common Vulnerabilities and Exposures (CVEs) that have been addressed. Each CVE is identified by the CVE ID number.

The following CVEs have been addressed in FOS <u>v7.4.2f</u>:

- CVE-2019-16204 - A vulnerability in Brocade Fabric OS versions before 8.2.2a, 8.2.1d, 8.1.2j, 7.4.2f could expose external passwords, common secrets or authentication keys used between the swtich and an external server.

The following CVEs have been addressed in FOS <u>v7.4.2e</u>:

- CVE-2018-15473 - OpenSSH through 7.7 is prone to a user enumeration vulnerability due to not delaying bailout for an invalid authenticating user until after the packet containing the request has been fully parsed, related to auth2-gss.c, auth2-hostbased.c, and auth2-pubkey.c.
- CVE-2017-15906 - The process_open function in sftp-server.c in OpenSSH before 7.6 does not properly prevent write operations in read only mode, which allows attackers to create zero-length files.

The following CVEs have been addressed in FOS <u>v7.4.2d</u>:

- CVE-2018-6433 - A vulnerability in the secryptocfg export command of Brocade Fabric OS versions before 8.2.1, 8.1.2f, 8.0.2f, 7.4.2d could allow a local attacker to bypass the exports file access restrictions and initiate a file copy from the source to a remote system.
- CVE-2018-6434 - The Web management interface of Brocade Fabric OS versions before 8.2.1, 8.1.2f, 8.0.2f, 7.4.2d doesn't send cookies with secure flag. This could allow attackers to intercept or manipulate a victim user's session ID
- CVE-2018-6435 - A Vulnerability in the seccryptocfg command available from the Brocade Fabric OS command line interface (CLI) versions before 8.2.1, 8.1.2f, 8.0.2f, 7.4.2d could allow a local attacker to escape the restricted shell and, gain root access to the device.
- CVE-2018-6436 - A Vulnerability in the firmwaredownload command available from the Brocade FabricOS command line interface (CLI) versions before 8.2.1, 8.1.2f, 8.0.2f, 7.4.2d could allow a local attacker to escape the restricted shell and, gain root access to the device.
- CVE-2018-6437 - A Vulnerability in the help command available from the Brocade Fabric OS command line interface (CLI) versions before 8.2.1, 8.1.2f, 8.0.2f, 7.4.2d could allow a local attacker to escape the restricted shell and, gain root access to the device.
- CVE-2018-6438 - A Vulnerability in the supportsave command available from the Brocade Fabric OS command line interface (CLI) versions before 8.2.1, 8.1.2f, 8.0.2f, 7.4.2d could allow a local attacker to escape the restricted shell and, gain root access to the device.
- CVE-2018-6439 - A Vulnerability in the configdownload command available from the Brocade Fabric OS command line interface (CLI) versions before 8.2.1, 8.1.2f, 8.0.2f, 7.4.2d could allow a local attacker to escape the restricted shell and, in some cases, gain root access to the device.
- CVE-2018-6440 - A vulnerability in the proxy service of Brocade Fabric OS versions before 8.2.1, 8.1.2f, 8.0.2f, 7.4.2d could allow remote unauthenticated attackers to obtain sensitive information and possibly cause a denial of service.
- CVE-2018-6441 - A vulnerability in the Secure Shell implementation in Brocade Fabric OS versions before 8.2.1, 8.1.2f, 8.0.2f, 7.4.2d could allow a local attacker to provide arbitrary environment variables, which can be used to bypass the restricted configuration shell.
- CVE-2018-6442 - A vulnerability in the webtools firmware update section of Brocade Fabric OS versions before 8.2.1, 8.1.2f, 8.0.2f, 7.4.2d could allow remote authenticated attackers to execute arbitrary commands as the root user, leading to complete persistent take-over of the target device.

The following CVEs have been addressed in <u>FOS v7.4.2b</u>:

- CVE-2014-2653: The verify_host_key function in sshconnect.c in the client in OpenSSH 6.6 and earlier allows remote servers to trigger the skipping of SSHFP DNS RR checking by presenting an unacceptable HostCertificate.
- CVE-2016-10011: authfile.c in sshd in OpenSSH before 7.4 does not properly consider the effects of realloc on buffer contents, which might allow local users to obtain sensitive private-key information by leveraging access to a privilege-separated child process.
- 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.
- 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-2017-6225 - XSS vulnerabilities in the web-based management interface of Brocade Fibre Channel SAN products running Brocade Fabric OS (FOS) could allow remote unauthenticated attackers to execute arbitrary script code in the context of the interface or allow attackers to access sensitive browser-based information. All versions of Brocade Fabric OS are affected.
- CVE-2017-6227 - A vulnerability in the IPv6 stack on Brocade Fibre Channel SAN products running Brocade Fabric OS (FOS) could allow an unauthenticated, adjacent attacker to cause a denial of service (CPU consumption and device hang) condition by sending crafted Router Advertisement (RA) messages to a targeted system. All versions of Brocade Fabric OS are affected.

The following CVEs have been addressed in FOS <u>v7.4.2a</u>:

- 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.

The following CVEs have been addressed in FOS <u>v7.4.2</u>:

- CVE-2014-0198: The do_ssl3_write function in s3_pkt.c in OpenSSL 1.x through 1.0.1g, when SSL_MODE_RELEASE_BUFFERS is enabled, does not properly manage a buffer pointer during certain recursive calls, which allows remote attackers to cause a denial of service (NULL pointer dereference and application crash) via vectors that trigger an alert condition.
- CVE-2014-3513: Memory leak in d1_srtp.c in the DTLS SRTP extension in OpenSSL 1.0.1 before 1.0.1j allows remote attackers to cause a denial of service (memory consumption) via a crafted handshake message.
- CVE-2014-3567: Memory leak in the tls_decrypt_ticket function in t1_lib.c in OpenSSL before 0.9.8zc, 1.0.0 before 1.0.0o, and 1.0.1 before 1.0.1j allows remote attackers to cause a denial of service (memory consumption) via a crafted session ticket that triggers an integrity-check failure.
- CVE-2014-3570: The BN_sqr implementation in OpenSSL before 0.9.8zd, 1.0.0 before 1.0.0p, and 1.0.1 before 1.0.1k does not properly calculate the square of a BIGNUM value, which might make it easier for remote attackers to defeat cryptographic protection mechanisms via unspecified vectors, related to crypto/bn/asm/mips.pl, crypto/bn/asm/x86_64-gcc.c, and crypto/bn/bn_asm.c.
- CVE-2015-8325: The do_setup_env function in session.c in sshd in OpenSSH through 7.2p2, when the UseLogin feature is enabled and PAM is configured to read .pam_environment files in user home directories, allows local users to gain privileges by triggering a crafted environment for the /bin/login program, as demonstrated by an LD_PRELOAD environment variable.
- CVE-2016-0800: The SSLv2 protocol, as used in OpenSSL before 1.0.1s and 1.0.2 before 1.0.2g and other products, requires a server to send a ServerVerify message before establishing that a client possesses certain plaintext RSA data, which makes it easier for remote attackers to decrypt TLS ciphertext data by leveraging a Bleichenbacher RSA padding oracle, aka a "DROWN" attack.

- CVE-2016-2105: Integer overflow in the EVP_EncodeUpdate function in crypto/evp/encode.c in OpenSSL before 1.0.1t and 1.0.2 before 1.0.2h allows remote attackers to cause a denial of service (heap memory corruption) via a large amount of binary data.
- CVE-2016-2106: Integer overflow in the EVP_EncryptUpdate function in crypto/evp/evp_enc.c in OpenSSL before 1.0.1t and 1.0.2 before 1.0.2h allows remote attackers to cause a denial of service (heap memory corruption) via a large amount of data.
- CVE-2016-2107: The AES-NI implementation in OpenSSL before 1.0.1t and 1.0.2 before 1.0.2h does not consider memory allocation during a certain padding check, which allows remote attackers to obtain sensitive cleartext information via a padding-oracle attack against an AES CBC session, NOTE: this vulnerability exists because of an incorrect fix for CVE-2013-0169.
- CVE-2016-2108: The ASN.1 implementation in OpenSSL before 1.0.1o and 1.0.2 before 1.0.2c allows remote attackers to execute arbitrary code or cause a denial of service (buffer underflow and memory corruption) via an ANY field in crafted serialized data, aka the "negative zero" issue.
- CVE-2016-2109: The asn1_d2i_read_bio function in crypto/asn1/a_d2i_fp.c in the ASN.1 BIO implementation in OpenSSL before 1.0.1t and 1.0.2 before 1.0.2h allows remote attackers to cause a denial of service (memory consumption) via a short invalid encoding.
- 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-2016-6302: 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-2016-6303: 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.
- CVE-2016-6515: The auth_password function in auth-passwd.c in sshd in OpenSSH before 7.3 does not limit password lengths for password authentication, which allows remote attackers to cause a denial of service (crypt CPU consumption) via a long string.
- CVE-2016-8858: The kex_input_kexinit function in kex.c in OpenSSH 6.x and 7.x through 7.3 allows remote attackers to cause a denial of service (memory consumption) by sending many duplicate KEXINIT requests.

Defects

Closed with Code Change in Fabric OS v7.4.2f

There are no additional code changes besides changes made for CVE-2019-16204.

Closed with Code Change in Fabric OS v7.4.2e

Defect ID:	FOS-812841		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.2.1a	**Technology:**	Firmware upload/download
Symptom:	Firmwaredownload fails using Fully Qualified Domain Names with IPv6.		
Condition:	This is seen when FQDN is specified in place of the ip address.		
Workaround:	Use ip address instead of FQDN.		

Defect ID:	FOS-811246		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.2e	**Technology:**	Web Tools
Symptom:	Switch is not accessible via web interfaces - Webtools, BNA, or SANnav.		
Condition:	This is caused by periodic weblinker daemon terminations during disruptive firmware-download testing.		

Defect ID:	FOS-811053		
Technical Severity:	Medium	**Probability:**	Low
Product:	Fabric OS	**Technology**	Management

		Group:	
Reported In Release:	FOS8.2.1	**Technology:**	Fibre Channel Services
Symptom:	Support new OUI 38:BA:B0 that will be used on future platforms.		
Condition:	This is a new development to add support for the new OUI.		

Defect ID:	FOS-809993		
Technical Severity:	High	**Probability:**	High
Product:	Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.1e	**Technology:**	Fibre Channel Services
Symptom:	CP auto reboot due to OOM encountered on Director switches.		
Condition:	This is seen when RDP Enabled, and response to RDP requests are multi-frame -- i.e. response spanning more than one frame.		
Workaround:	Disable RDP polling.		
Recovery:	If OOM has not yet happened, do hareboot or hafailover. If OOM occurred and reboot happened, no action is needed.		

Defect ID:	FOS-809817		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS9.0.0	**Technology:**	MAPS - Monitoring and Alerting Policy Suite
Symptom:	MAPS returns "specified group does not exist" after creating a logical group and then attempting to delete it.		
Condition:	This is seen when attempting to delete a newly created logical group.		

Defect ID:	FOS-809514

Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Monitoring/RAS
Reported In Release:	FOS7.4.2c	Technology:	End-to-end Performance Monitoring
Symptom:	User may encounter cold reboot, along with mdd termination, during MAPS rule creation with an invalid timebase.		
Condition:	This may occur during MAPS rule creation with an invalid timebase on FOS versions v8.0.2x and lower. This release also enhanced code to block invalid timebase configuration.		

Defect ID:	FOS-808696		
Technical Severity:	Low	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	CLI - Command Line Interface
Symptom:	Enhancement to Include LicenseID (LID) in CLI licenseshow output.		
Condition:	This is a new enhancement request for licenseshow CLI command to include LID in the output.		

Defect ID:	FOS-808423		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS7.4.2c	Technology:	CLI
Symptom:	On Brocade switches 5100, 5300, the time reported on syslog server showed a 6 hour difference.		
Condition:	This happens only when timezone in switch is configured using Offset (tstimezone --old 3). This is not seen with time zone interactive mode.		

Defect ID:	FOS-808302		
Technical Severity:	Medium	**Probability:**	High
Product:	Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.2.1a	**Technology:**	CLI - Command Line Interface
Symptom:	Duplicated logical groups can be created in MAPS environment		
Condition:	This occurs when creating the same group_name (with different/capitalized case) using the CLI command: logicalgroup [--create	--delete] group_name <options>		

Defect ID:	FOS-808171		
Technical Severity:	High	**Probability:**	Low
Product:	Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS7.4.2c	**Technology:**	Hardware Monitoring
Symptom:	User may encounter asic error on core blade resulting in Disk errors on the Servers/VMs.		
Condition:	This may be seen in the event that the core blade asic hardware goes faulty. Monitor for threshold crossing detection and blade faults to isolate the problem.		

Defect ID:	FOS-806963		
Technical Severity:	High	**Probability:**	Low
Product:	Fabric OS	**Technology Group:**	Extension
Reported In Release:	FOS7.4.2	**Technology:**	Fastwrite
Symptom:	IO errors are reported during FCIP OSTP tape backup processing.		
Condition:	When using FCIP OSTP write processing and the application and device request partial send of write content that includes non-4 byte aligned write date. FCIP OSTP logic can fail to send		

	the proper amount of data bytes in this case and cause IO errors.

Defect ID:	FOS-806154		
Technical Severity:	Medium	**Probability:**	null
Product:	Fabric OS	**Technology Group:**	Extension
Reported In Release:	FOS7.4.1d	**Technology:**	FCIP - Fibre Channel over IP
Symptom:	High QOS Credit count FTNLQosCredit may be seen on Brocade distance extension switches.		
Condition:	This may occur if an out of credit condition occurs.		

Defect ID:	FOS-805457		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS7.4.2c	**Technology:**	Frame Redirection
Symptom:	Silent frame drops may be encountered on Brocade 6520 running FOS v7.4.2c.		
Condition:	This occurred because the BE link DID check bit was set in the past, which led to frame drops over that particular BE link.		

Defect ID:	FOS-804626		
Technical Severity:	High	**Probability:**	Low
Product:	Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS8.2.1	**Technology:**	Hardware Monitoring
Symptom:	SFP smart data (voltage, current etc.) is not updated by maps or CLI sfpshow. This is applicable to both SFPs and QSFPs.		
Condition:	This may happen after hafailover, hareboot or disruptive operations like chassisreboot or powercycle.		

Recovery:	Issue "sfpshow -f" force an update.

Defect ID:	FOS-803994		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1d	Technology:	FCIP
Symptom:	Compression is inactive on one side of tunnel.		
Condition:	Compression settings are not properly set during error condition.		

Defect ID:	FOS-803654		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.1	Technology:	IPsec - IP Security
Symptom:	Persistent authentication tag errors lead to the tunnels consistently being brought down and up.		
Condition:	This stems from an internal bug resulting in authentication tag errors.		
Recovery:	reboot the blade or chassis.		

Defect ID:	FOS-659528		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1d	Technology:	CLI - Command Line Interface
Symptom:	The output from configshow / configupload may show some random characters as config key.		
Condition:	This may be seen after making a configuration change using other config commands such as tstimezone.		

Defect ID:	FOS-658739		
Technical Severity:	Critical	**Probability:**	Low
Product:	Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS7.4.1d	**Technology:**	Fibre Channel Routing
Symptom:	When a new NPIV device is added to the effective zoning cfg, there can be a short window of frame lost for other NPIV devices on the same physical port running traffic.		
Condition:	When the NPIV is Hard Zoned, adding a new NPIV device on another port can cause a momentary loss of traffic.		
Workaround:	Do not add new NPIV devices into effective HW zoning configuration where other NPIV devices are connected to the same physical port running traffic.		

Defect ID:	FOS-627504		
Technical Severity:	High	**Probability:**	Low
Product:	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:	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:	FOS-622430		
Technical Severity:	High	**Probability:**	High
Product:	Fabric OS	**Technology Group:**	Security
Reported In Release:	FOS7.4.1d	**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.
Workaround:	Use full user/domain name when logging into the switch.

Closed with Code Change in Fabric OS v7.4.2d

Defect ID:	FOS-805380		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.2e	Technology:	LDAP - Lightweight Directory Access Protocol
Symptom:	LDAP and RADIUS validation fails with switches running FOS v8.1.2e		
Condition:	This impacts 16G platforms running FOS v8.1.2e only. Other releases and/or other platforms are not impacted.		

Defect ID:	FOS-803974		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.2c	Technology:	FCIP
Symptom:	Excessive logs caused the trace log file to wrap.		
Condition:	On extension platform, after chip initialization failed, excessive log overwrites useful debug information.		

Defect ID:	FOS-803778		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Monitoring

Reported In Release:	FOS7.4.2	Technology:	Hardware Monitoring
Symptom:	Switch may experience hareboot or hafailover after high amount of memory is withheld by Weblinker process.		
Condition:	When external application repeatedly polls on maps rule information.		
Workaround:	Stop external application poll.		
Recovery:	Use hareboot or hafailover to recover memory.		

Defect ID:	FOS-803424		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.2	Technology:	FTRACE
Symptom:	The FCIP platforms and FCIP Extension blades include a Fibre Channel trace capability that captures some FC user payload. The trace is used to perform problem analysis for customer issues. However, the user data that is included in the traces is not needed for debug purposes, but it was inadvertently not excluded from the trace capture in the original design of the trace facility. All other FOS switches do NOT collect any user data.		
Condition:	When select Fibre Channel frames are passed through an FCIP tunnel between switches in a fabric.		

Defect ID:	FOS-803406		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2	Technology:	Configuration Fundamentals
Symptom:	Support NEW OUIs that will be used on future platforms		
Condition:	This is a new development to add support for the NEW OUI		

Defect ID:	FOS-803349

Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.2b	Technology:	Management GUI
Symptom:	In Web Tools, "Print Effective Zone Configuration" windows shows empty on Zone Admin, even though effective configuration exists.		
Condition:	This is encountered when using Web Tools.		
Workaround:	Use CLI instead of Web Tools.		

Defect ID:	FOS-802874		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	FICON
Reported In Release:	FOS7.4.1d9	Technology:	FICON emulation
Symptom:	Tape restoring job was abend with following message: "N 0020000 #K1 18162 14:51:46.62 JOB00083 00000090 IEC537I BLOCK COUNTS: TLABEL=307, DCB=308 M 0020000 #K1 18162 14:51:46.62 JOB00083 00000090 IEC023I 237-04,IFG0552R,YTVRSG03,DFDSS,FROM,0C4".		
Condition:	This may be seen when host read-forward command chain with multiple large data-chained commands. Tape records being read are very small (less than size of first read command).		

Defect ID:	FOS-801305		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	Management GUI
Symptom:	Web Tools does not allow user to change the password and it shows an error message "Invalid username and password".		

Condition:	The user cannot change password from Web Tools once the account's password is expired.

Defect ID:	FOS-660466		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Fabric OS	**Technology Group:**	Virtualization
Reported In Release:	FOS7.4.1d	**Technology:**	Access Gateway
Symptom:	Devices connected to AG cannot come online.		
Condition:	When device comes online and performs Class2 login to AG immediately. Device receives two ACK_1 responses which causes the device to enter a defective state and/or reset.		
Workaround:	Configure device for Class3 communication. If Class3 is not supported or allowed by the customer, try making the device re-login, or reboot the device, or disable/enable the AG port connected to the device.		

Defect ID:	FOS-658796		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Fabric OS	**Technology Group:**	Extension
Reported In Release:	FOS8.0.2c	**Technology:**	Fastwrite
Symptom:	FCIP Open Systems Tape Pipelining (OSTP) Read/Write timeout errors.		
Condition:	During OSTP operations, if the server requests retransmit of read data and status (due to frame loss or FC CRC errors), the ELS-REC and SRR sequences complete, but the server never confirms receipt of the data and the status and the I/O is eventually timed out with an Abort Sequence.		

Defect ID:	FOS-604071		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Fabric OS	**Technology**	Monitoring

		Group:	
Reported In Release:	FOS7.2.1c1	**Technology:**	Fabric Watch
Symptom:	Logs in DP's RAS_PRE.txt is incomplete.		
Condition:	This issue is seen while collecting supportsave from extension platforms.		

Defect ID:	FOS-600238		
Technical Severity:	High	**Probability:**	Medium
Product:	Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS8.0.1a	**Technology:**	Name Server
Symptom:	Termination of name server daemon caused switch to panic.		
Condition:	During device offline/online event, name server referenced an stale interface ID.		

Closed with Code Change in Fabric OS v7.4.2c

Defect ID:	DEFECT000659739		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Fibre Channel Routing
Reported In Release:	FOS7.4.1	**Technology:**	Traffic Management
Symptom:	In switches with Virtual Fabric configuration, observed traffic disruption following a warm recovery.		
Condition:	In a Virtual Fabric configuration, a logical switch that is neither a default switch nor a base switch and has two or more separate paths via individual or trunked links (ISL/ICL/IFL) to its neighbor will experience port bounce on its F-ports and links to neighbor during a warm recovery event such as an hafailover, hareboot, and non-disruptive firmware download (hot code load). This impacts FOS v7.4.2b ONLY.		
Workaround:	Avoid hareboot/hafailover while on FOS7.4.2b in VF		

	environment, until can upgrade to FOS v7.4.2c
Recovery:	Upgrade to FOS v7.4.2c

Closed with Code Change in Fabric OS v7.4.2b

This section lists the defects with Critical, High, and Medium Technical Severity closed with a code change.

Defect ID:	DEFECT000565784		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Configuration Fundamentals
Reported In Release:	FOS8.0.0	**Technology:**	Management
Symptom:	portcfgexport command with the range option does not work as expected.		
Condition:	This is an issue only with the range option of the CLI command portcfgexport		

Defect ID:	DEFECT000577460		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	FCIP - Fibre Channel over IP
Reported In Release:	FOS8.0.1	**Technology:**	Extension
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:	DEFECT000577515		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology**	Fibre Channel

		Group:	Services
Reported In Release:	FOS7.3.0	**Technology:**	Management
Symptom:	Brocade Switch may experience unexpected reboot resulting from termination of zoned		
Condition:	This may be encountered when zones are created with duplicate zone members		

Defect ID:	DEFECT000586656		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	FCIP - Fibre Channel over IP
Reported In Release:	FOS8.0.1	**Technology:**	Extension
Symptom:	FX8-24 or SX-6 blade in director chassis or Brocade 7840 switch may encounter a reboot		
Condition:	This may occur during long duration FC I/O run		

Defect ID:	DEFECT000600928		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	TACACS & TACACS+
Reported In Release:	FOS7.4.1	**Technology:**	Security
Symptom:	Software verify error is detected when authspec is changed to tacacs+ and local.		
Condition:	This issue encountered on Brocade 5470 embedded switch only		

Defect ID:	DEFECT000604071		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Fabric Watch
Reported In	FOS7.2.1	**Technology:**	Monitoring

Release:	
Symptom:	Logs in DP's RAS_PRE.txt is incomplete.
Condition:	This issue is seen rarely while collecting supportsave from BR7800.

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

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

Defect ID:	DEFECT000609380		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Access Gateway
Reported In Release:	FOS8.0.2	**Technology:**	Management

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:	DEFECT000609532		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	SNMP - Simple Network Management Protocol
Reported In Release:	FOS8.1.0	Technology:	Management
Symptom:	User may encounter snmpd daemon termination		
Condition:	This may be observed during snmp walk through from iso.		

Defect ID:	DEFECT000610800		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	High Availability
Reported In Release:	FOS8.1.0	Technology:	Management
Symptom:	Observed "Software Bootup Failure: Bringup timed out "- after power-cycled the switch or "Need to reboot the system for recovery, reason: Software Recovery Failure? during hafailvoer followed by emd panic.		
Condition:	Rare condition observed during switch POR or hafailover.		
Recovery:	Reboot switch		

Defect ID:	DEFECT000616534		
Technical Severity:	High	Probability:	Medium

Product:	Brocade Fabric OS	Technology Group:	Fibre Channel Services
Reported In Release:	FOS8.1.0	Technology:	Management
Symptom:	User may encounter "Oops: kernel access of bad area, sig: 11 [#1] " leading to a switch panic dump		
Condition:	This may occur following a reboot after firmwaredownload.		

Defect ID:	DEFECT000624498		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Fibre Channel Services
Reported In Release:	FOS7.4.1	Technology:	Management
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:	DEFECT000628189		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	SSH - Secure Shell
Reported In Release:	FOS8.1.0	Technology:	Security
Symptom:	SSH connection intermittently fails		
Condition:	SSH connection with public key (password less login) may fail to login to switch. This condition happens rarely on G620 and BR7840 platforms		
Workaround:	Disconnect and establish the connection again.		

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

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

Defect ID:	DEFECT000637235		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	FCIP - Fibre Channel over IP
Reported In Release:	FOS8.1.1	**Technology:**	Extension
Symptom:	Fabrics may segment and head of line blocking of F-Class frames behind C3 frames may occur.		
Condition:	This may be encountered when an FCIP tunnel with moderate or aggressive compression enabled.		

Workaround:	Do not enable software compression on FCIP tunnel.

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

Defect ID:	DEFECT000637701		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	NTP - Network Time Protocol
Reported In Release:	FOS8.0.2	**Technology:**	Management
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:	DEFECT000639775		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	CLI - Command Line Interface
Reported In Release:	FOS7.4.0	**Technology:**	Management
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:	DEFECT000639880		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	RAS - Reliability, Availability, and Serviceability
Reported In Release:	FOS7.4.1	**Technology:**	Monitoring
Symptom:	Raslog messages prior to switch power cycle disappeared.		
Condition:	It happens after a switch power cycle, or sometime a panic. It seems to occur more with FOSv7.4.x;		

Defect ID:	DEFECT000640577		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Fibre Channel Services
Reported In Release:	FOS8.1.0	**Technology:**	Management
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:	DEFECT000640661		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	FCIP - Fibre Channel over IP
Reported In Release:	FOS7.4.1	**Technology:**	Extension
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:	DEFECT000640731		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Fibre Channel Routing
Reported In Release:	FOS7.3.1	Technology:	Traffic Management
Symptom:	Off-chip shared area routes are missing and cause connectivity issue for devices on shared area port after CP failures.		
Condition:	Rare condition when there was a loss of heartbeat between Standby and Active CP which caused the Active CP to go down abruptly, both the primary and secondary IFIDs are not mapped to the shared area IFID. Also added debug trace to catch this condition.		

Defect ID:	DEFECT000642118		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	LDAP - Lightweight Directory Access Protocol
Reported In Release:	FOS7.3.1	Technology:	Security
Symptom:	Fabric discovery fails through BNA when using user-name@domain.com format and weblinker.fcg encounters a panic.		
Condition:	This is encountered when fabric discovery is done through BNA using user-name@domain.com format.		
Workaround:	Use UPN only for username in BNA discovery.		

Defect ID:	DEFECT000643566		
Technical	Medium	Probability:	Medium

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

Defect ID:	DEFECT000644778		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	User Accounts & Passwords
Reported In Release:	FOS7.4.1	**Technology:**	Security
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:	DEFECT000645071		
Technical Severity:	Medium	**Probability:**	Medium

Product:	Brocade Fabric OS	Technology Group:	CLI - Command Line Interface
Reported In Release:	FOS7.4.2	Technology:	Management
Symptom:	CLI command 'apploginhistory --show' returns permission denied		
Condition:	This is encountered when the command is run from admin account		

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

Defect ID:	DEFECT000646307		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management GUI
Reported In Release:	FOS8.1.1	Technology:	Management
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:	DEFECT000646323		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology	CLI - Command

		Group:	Line Interface
Reported In Release:	FOS8.1.0	**Technology:**	Management
Symptom:	CLI command "portshow 0" reflect "FAA" as inactive, even when FAA is enabled for the port.		
Condition:	This is a cosmetic discrepancy, that appears in the output of only "portshow 0", with no functional impact.		

Defect ID:	DEFECT000648118		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Port Bring-up
Reported In Release:	FOS7.4.1	**Technology:**	Traffic Management
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:**	FCIP - Fibre Channel over IP
Reported In Release:	FOS7.4.1	**Technology:**	Extension
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:	DEFECT000648606		
Technical Severity:	Medium	**Probability:**	Medium

Product:	Brocade Fabric OS	Technology Group:	FCIP - Fibre Channel over IP
Reported In Release:	FOS7.3.2	Technology:	Extension
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:	DEFECT000648860		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	ISL - Inter-Switch Linking
Reported In Release:	FOS7.4.1	Technology:	Traffic Management
Symptom:	After the trunk master goes offline, the links on the remote end of a trunk may show invalid values for the deskew.		
Condition:	This is seen when the trunk master goes offline and the remote end switch had performed an hafailover some time prior to this.		

Defect ID:	DEFECT000650786		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	RAS - Reliability, Availability, and Serviceability
Reported In Release:	FOS7.2.1	Technology:	Monitoring
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:	DEFECT000651738		
Technical	High	Probability:	Medium

Severity:			
Product:	Brocade Fabric OS	**Technology Group:**	Port Bring-up
Reported In Release:	FOS7.4.1	**Technology:**	Traffic Management
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:	DEFECT000652145		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	SNMP - Simple Network Management Protocol
Reported In Release:	FOS8.1.1	**Technology:**	Management
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:	DEFECT000652170		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Inband Management
Reported In Release:	FOS7.4.1	**Technology:**	Management
Symptom:	EVMd panic while deleting a logical switch.		
Condition:	The may occur when user deletes a logical switch while a zone transaction is still in progress.		

Defect ID:	DEFECT000652508		
Technical Severity:	High	**Probability:**	Medium

Product:	Brocade Fabric OS	Technology Group:	D-Port - Diagnostic Port
Reported In Release:	FOS8.1.0	Technology:	Monitoring
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:	DEFECT000653185		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	FICON
Reported In Release:	FOS8.2.0	Technology:	Traffic Management
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:	Hardware Monitoring
Reported In Release:	FOS7.3.2	Technology:	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:	DEFECT000655108		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Buffer Credit Management
Reported In Release:	FOS7.3.2	**Technology:**	Traffic Management
Symptom:	Customer seeing the long distance LS buffer settings get lost following reboot of 7800 switch		
Condition:	Configuring the long distance mode on 7800 switch port and then reboot of the box may exhibit the issue on a very rare occasion.		
Recovery:	Customer may reconfigure the long distance configuration again on the switch port		

Defect ID:	DEFECT000655837		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	High Availability
Reported In Release:	FOS7.4.1	**Technology:**	Management
Symptom:	Customer may encounter hafailver turn into a cold recovery		
Condition:	This may result from a voltage not in range reading from the voltage sensor logged via the raslog message HIL-5010		

Defect ID:	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:	• 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 Change in Fabric OS v7.4.2a

This section lists the defects with Critical, High, and Medium Technical Severity closed with a code change.

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

Defect ID:	DEFECT000586993	
Technical Severity: Medium	**Probability:** Medium	
Product: Brocade Fabric OS	**Technology Group:**	Security
Reported In Release: FOS8.0.1	**Technology:** User Accounts & Passwords	
Symptom: When distributing a password in a fabric with a mixed FOS version the switch panics and additionally the oldpassword parameter is not distributed to the AG switch.		
Condition: Executing CLI command "distribute -p PWD –d switch_list" on a switch with a FOS version earlier than v7.4.0 causes distribute password db on a switch running FOS v7.4.0 and above to panic.		
Workaround: Run the command from switches with the highest FOS version, or upgrade receiving switches to a FOS version with the fix for this defect. i.e. FOS7.4.2a or FOS8.0.1 or later . Additionally if there is FOS7.1.0 or earlier in the fabric, the switch running FOS8.x needs to upgrade to a FOS version with a fix for defect 643776 .i.e upcoming FOS8.1.1a or later. Please Note: if there is AG in the fabric, please use WWN to distribute password instead of wildcard "*", even with this fix.		

Defect ID:	DEFECT000591325	
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 Extended CUP Device IFCCs or channel detected errors reported.		
Condition: When processing a switch CUP device request for port stats over an FCIP Tunnel.		

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: Extension blade may experience a panic on DP.	
Condition: This may be encountered on Extension platforms.	

Defect ID: DEFECT000599088	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: High Availability
Symptom: User may encounter CPS out of sync with FSS-1009Error: fcsw2-swc: sync-failure: -6 and many FSS-1001 w/Component (swc) dropping HA data updates	
Condition: This may occur when FMS mode is enabled and device(s) log out on the active.	
Recovery: hadisable / haenable will restore ha sync	

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: 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: 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:	Customer may see many CRC errors and CRC_geof in porterrshow for the embedded HBA doing 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:	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:	DEFECT000627006	
Technical Severity:	High	**Probability:** Low
Product:	Brocade Fabric OS	**Technology Group:** Security
Reported In Release:	FOS8.1.0	**Technology:** AD - Admin Domains
Symptom:	On a large scale fabric Brocade director switch may encounter NSd crash.	
Condition:	This may be seen on a large scale fabric with 10K+ devices and 12+ director switches.	

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

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

Defect ID:	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:	DEFECT000637928	
Technical Severity: Medium	**Probability:** High	
Product: Brocade Fabric OS	**Technology Group:**	Security
Reported In Release: FOS7.4.1	**Technology:** AAA - Authentication, Authorization, and Accounting	
Symptom:	CLI command passwddefault results in the following error message ""Error: Invalid option specified, see the usage."" even though passwords are successfully set to default.	
Condition:	This is seen on all platforms when CLI command passwddefault is run. It is caused by an RBAC permission issue.	

Defect ID:	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 went to 75%+ within 5 days or so of 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:	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 FOS7.4.1	**Technology:** NPIV - N-Port ID Virtualization	

Release:	
Symptom:	Device cannot login and observe [NS-1012] Detected duplicate WWPN [] - devices removed.
Condition:	Switch has NPIV devices with "Fport update mode" turned on, bounce a NPIV port after hafailover could trigger this.

Defect ID:	DEFECT000639516	
Technical Severity: High	**Probability:** Medium	
Product: Brocade Fabric OS	**Technology Group:**	Security
Reported In Release: FOS8.1.1	**Technology:** RADIUS	
Symptom:	User can login to switch with root privilege when RADIUS is configured as the authentication service.	
Condition:	When remote user accounts on AAA server is configured with root role, users can login with root privilege under those accounts.	
Workaround:	Remove remote user with root role on AAA server.	
Recovery:	Do not configure user with root role on AAA server.	

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

Defect ID:	DEFECT000640442	
Technical Severity: Medium	**Probability:** Medium	
Product: Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release: FOS7.3.1	**Technology:** Port Bring-up	
Symptom:	Link may not properly initialize and CRC errors or other link errors may be observed. In some cases the switch may also panic when attempting to read from non qualified QSFPs.	
Condition:	Installing 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.		

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	

Release:	
Symptom:	XTUN-1000 RASLOGs and other issues (potentially BLS-5024 DP Panic).
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.

Closed with Code Change in Fabric OS v7.4.2

This section lists the defects with Critical, High, and Medium Technical Severity closed with a code change.

Defect ID:	DEFECT000495229		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.2.1_HIL	**Technology:**	Software Installation & Upgrade
Symptom:	After a non-disruptive firmware download, portstatsshow may display increased instances of fec_uncor_detected errors on front end port.		
Condition:	This may be encountered only on embedded platforms.		

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 configdownlaod, show the value as 0.		
Condition:	This issue is seen when enabling parity threshold using CLI chassiscfgperrthreshold.		

Defect ID:	DEFECT000515289		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring

Reported In Release:	FOS7.1.2	**Technology:** MAPS - Monitoring and Alerting Policy Suite
Symptom: IPfilter policies not enforced on standby CP, until after hafailover, and may be enforced on IPFC address on VF.		
Condition: This (bypassing IPfilter policies enforcement) is encountered on standby CP.		

Defect ID: DEFECT000523383		
Technical Severity: Medium		**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Monitoring
Reported In Release: FOS7.2.1		**Technology:** Bottleneck Detection (legacy)
Symptom: When there is real latency device in fabric and triggers frame timeout, latency warning AN-1003 reports affected delay, slowdown and pct secs as 0. For example: [AN-1003], 2/2, FID 128, WARNING, , Latency bottleneck on F-Port 9 0.00 pct. of 30 secs affected Avg. delay 0 us. Avg. slowdown 0., traf.c, line: 4457, comp:trafd,		
Condition: In a frame timeout situation, a race condition may lead Bottleneck monitor to read counters before lower layer driver has populated the data.		
Recovery: It will recover by next data read cycle. Ignore the occasional 0 counters.		

Defect ID: DEFECT000523863		
Technical Severity: Medium		**Probability:** Low
Product: Brocade Fabric OS		**Technology Group:** Traffic Management
Reported In Release: FOS7.2.0		**Technology:** FICON
Symptom: Channel Detected Errors, may see an error indicating a protocol timeout, but CUP continues to run.		
Condition: System Reset Received by CUP.		
Recovery: If the CUP stops communicating, vary CUP Path back online (vary offline/online).		

Defect ID:	DEFECT000524532		
Technical Severity:	Medium	**Probability:** Low	
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS7.2.1	**Technology:**	Bottleneck Detection (legacy)
Symptom:	Unwarranted Bottleneck Detection alerts may be encountered on a switch.		
Condition:	This issue stems from a failing API leading to incorrect computations. When applying consistent latency into the switch, the AN-1003 messages for the specific F_Port show very low affected percentages with a slowdown value of 0.		

Defect ID:	DEFECT000532799		
Technical Severity:	Medium	**Probability:** Low	
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.0	**Technology:**	Management GUI
Symptom:	Webtools fails to launch from browser if HTTPS & fully qualified domain name (FQDN) are used.		
Condition:	FQDN names may not work after upgrading to FOS 7.2.x and above.		
Workaround :	Use switch IP address instead of fully qualified domain name.		

Defect ID:	DEFECT000534748		
Technical Severity:	Medium	**Probability:** High	
Product:	Brocade Fabric OS	**Technology Group:**	Other
Reported In Release:	FOS7.4.0	**Technology:**	Other
Symptom:	The switch names longer than 15 characters will be truncated to 15 characters in the switch name field of "islshow" output.		
Condition:	When user executes "islshow" CLI command, user will notice that only up to 15 characters of switchname get displayed.		

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: DEFECT000537571	
Technical Severity: Medium	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Monitoring
Reported In Release: FOS7.2.0	**Technology:** Hardware Monitoring
Symptom: CRC errors with good EOF at 4G speed may be encountered when with some SFPs.	
Condition: This may be seen when using 4G LW SFP part number 57-1000027-02.	

Defect ID: DEFECT000539342	
Technical Severity: High	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Monitoring
Reported In Release: FOS7.4.0	**Technology:** MAPS - Monitoring and Alerting Policy Suite
Symptom: System may encounter mdd process killed by Software Watchdog and show console message "Detected termination of process mdd0".	
Condition: These may be seen after a reboot, when MAPS is up and polls for the FC routing statistics from the FOS services, and encounters slow response.	
Recovery: When the problem occurs, MAPS will restart and the system should come up normally.	

Defect ID: DEFECT000544678	
Technical Severity: Medium	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Management
Reported In Release: FOS7.3.0	**Technology:** Configuration Fundamentals
Symptom: The warning message for supportInfoClear CLI command needs more clarity and explicitness to better assist the user of this command.	
Condition: This is a suggested enhancement to the warning message of supportInfoClear CLI command only.	

Defect ID: DEFECT000546719	
Technical Severity: High	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Traffic Management

	Group:
Reported In Release: FOS7.4.0	**Technology:** Fibre Channel Routing
Symptom: Proxy creation failure may be observed along with raslog message WARNING FCR-1021 00 0x0004 Local LSAN device entries exhausted while updating LSAN zone %s device entries.	
Condition: In a large Meta SAN, if 10,000 proxy devices already exist and there is an attempt to add more proxy devices, the proxy device creation will be failed.	
Recovery: Run fcrproxyconfig CLI command to determine the total number of proxy devices in the switch. If the total count shows 10,000 proxy devices, use "fcrproxyconfig -r" to remove some proxy devices.	

Defect ID: DEFECT000547722	
Technical Severity: Medium	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Other
Reported In Release: FOS7.1.2	**Technology:** Other
Symptom: Configuration keys corresponds to credit recovery feature may not be consistently reflected in configshow.	
Condition: This issue is seen when user changes credit recovery feature configuration.	
Recovery: Only display issue, the feature works as expected.	

Defect ID: DEFECT000552978	
Technical Severity: Medium	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Security
Reported In Release: FOS7.4.0_AMP	**Technology:** Fabric Authentication
Symptom: secauthsecret --set is not allowing creation of secret keys for dhchap authentication.	
Condition: If authentication already has secret key configured with max size and again when trying to set using "secauthsecret --set", it reports error.	
Workaround: Remove the secret keys using "secauthsecret --remove" and then try to set secret keys.	

Defect ID: DEFECT000553134	
Technical Severity: Low	**Probability:** Medium
Product: Brocade Fabric OS	**Technology Group:** Management
Reported In Release: FOS7.4.0	**Technology:** CLI - Command Line Interface

Symptom:	Diagnostic run may fail with raslog "[BLZ-5040], 0, CHASSIS, ERROR, Brocade 7840, S0,P8(105) [OID 0x43028829]: Sending ipp port fault for reason 1".
Condition:	When running diagnostics on BR7840.

Defect ID:	DEFECT000553454		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Monitoring
Reported In Release:	FOS7.2.1	**Technology:**	MAPS - Monitoring and Alerting Policy Suite
Symptom: DCX/DCX-4S WWN status may show unknown status.			
Condition: Occurs in rare occurrences where the i2cReset may fail to properly reset the WWN card.			
Recovery: Re-seat the WWN card in question.			

Defect ID:	DEFECT000553786		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS7.2.0	**Technology:**	Fibre Channel Services
Symptom: HA State Synchronization failed when switch detected there is duplicated WWN.			
Condition: HA Sync is stopped when the delete operation on AG duplicated device entry on standby fails.			
Recovery: Reboot standby CP to recover.			

Defect ID:	DEFECT000554393		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Distance
Reported In Release:	FOS7.4.0	**Technology:**	FCIP - Fibre Channel over IP
Symptom: Data Processor (DP) Panic'd on FCIP tunnel modify or FCIP circuit bounce causing an interruption in traffic.			
Condition: The FCIP tunnel and/or circuit is bouncing and it has IPSec enabled on it.			
Workaround: Disable IPSec on the FCIP tunnel.			

Defect ID:	DEFECT000556479		
Technical Severity:	Medium	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology Group:**	Security
Reported In Release:	FOS7.1.1	**Technology:**	Zoning

Symptom:	Zoned terminated and caused switch to panic.
Condition:	Zone contains alias name as member and zone is renamed such that both zone and member contains same name and user executes zone --validate <zone_name>.

Defect ID:	DEFECT000558864		
Technical Severity:	Low	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:**	Management GUI
Symptom:	Switch View -> Switch Events Tab "Last Updated" time may lag behind the true last update time.		
Condition:	Using GUI interface on switch event view.		

Defect ID:	DEFECT000559352		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.2.0	**Technology:**	SNMP - Simple Network Management Protocol
Symptom:	Unlike the display for other SNMP test traps, swDeviceStatus test Trap displays only varbind "swTestString".		
Condition:	This behavior is seen on all platforms for swDeviceStatus test trap.		

Closed with Code Change in Fabric OS v7.4.2a

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.		

Defect ID:	DEFECT000560593		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:**	Fibre Channel Services
Symptom:	The parameter "switch.login.perSwitchMax" is not shown in configshow output.		
Condition:	When a key is not defined (i.e not yet configured by the user), system will display the default value for it. But this key is different in that it does not have a fixed default value. The default value is computed dynamically as a function of the platform. As such this behavior anomaly is per design.		

Defect ID:	DEFECT000560880		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS7.3.1	**Technology:**	MAPS - Monitoring and Alerting Policy Suite
Symptom:	SNMP traps are received even when the action for the maps rule is "none".		
Condition:	This behavior is seen in all platforms with MAPS enabled, when the action specified for maps rule is "NONE".		

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:	DEFECT000561932		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.0_AMP	**Technology:**	Configuration Fundamentals
Symptom: portpeerbeacon CLI command will not permit enabling portpeerbeacon for more than 1 port in a chassis.			
Condition: This issue is specific to portpeerbeacon CLI command only.			

Closed with Code Change in Fabric OS v7.4.2a

Defect ID:	DEFECT000563045		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS7.3.1	**Technology:**	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Maps daemon terminated and cannot be restarted and HA was out of sync with raslog: [HAM-1013], , , CRITICAL, 0, Can't restart (md (pid=23088)): System unready or LS trans in progress. Reboot/Failover manually if necessary.		
Condition:	Too many user requests cause mdd running out of process threads.		
Recovery:	Reboot active CP to recover.		

Defect ID:	DEFECT000563299		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.2.1	**Technology:**	Fibre Channel Services
Symptom:	Switch performs hareboot due to OOM condition.		
Condition:	This issue occurs rarely on Brocade 300 when collecting supportsave from BNA.		

Defect ID:	DEFECT000563416		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS8.0.0	**Technology:**	FICON
Symptom:	Observed Kernal panic (Unable to handle kernal paging request) during single Channel running Local Control Unit Port (CUP).		
Condition:	This is encountered on a switch that is enabled for FICON (FMS-enabled). This occurs due to an attempt to de-reference IU memory that has already been previously freed up.		
Recovery:	No recovery is necessary since the switch recovers itself after rebooting from the panic.		

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

Closed with Code Change in Fabric OS v7.4.2a

Release:	
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: 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: DEFECT000563636	
Technical Severity: High	**Probability:** High
Product: Brocade Fabric OS	**Technology Group:** Security
Reported In Release: FOS8.0.0	**Technology:** Zoning
Symptom: Analytics F port (AF Port) is not filtered in portCAM and Port_RSCN is sent to zoned end devices, for AF port state changes.	
Condition: This is seen when the remote AF-port is disabled, resulting in the local device unexpectedly receiving Offline RSCN for the AF-port.	

Defect ID: DEFECT000563638	
Technical Severity: High	**Probability:** Medium
Product: Brocade Fabric OS	**Technology Group:** Distance
Reported In Release: FOS7.4.0	**Technology:** FCIP - Fibre Channel over IP
Symptom: Observed FICON CHPID IFCCs and job failures.	
Condition: When FICON Tape Pipelining needs to handle an abnormal sequence such as Attention in REPOSITION_PENDING_STATE.	

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: DEFECT000564261	
Technical Severity: Low	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Management
Reported In Release: FOS7.4.0	**Technology:** Configuration Fundamentals
Symptom: The board revision in switchshow changes from 77.3 to 77.0 following an upgrade of DCX-4S to v7.4.x.	
Condition: This is a switchshow display issue with board revision only for DCX-4S in v7.4.x.	

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:	DEFECT000565123		
Technical Severity:	High	**Probability:**	Low
Product: Brocade Fabric OS		**Technology Group:**	Distance
Reported In Release:	FOS7.4.0	**Technology:**	FCIP - Fibre Channel over IP
Symptom:	Following RAS Logs would be observed, the values could be different. It could be DP0 or DP1. VE tunnel no. could be 24-33 on DP0 and 34-43 on DP1. [ESM-1010], 3475, FID 128, INFO, DS_7840_i2052142, DP0 is OFFLINE. [ESM-2105], 3476, FID 128, INFO, DS_7840_i2052142, VE tunnel 25 is DEGRADED. [RAS-1001], 3477, CHASSIS, INFO, Brocade7840, First failure data capture (FFDC) event occurred.		
Condition:	Traffic running on a VE tunnel configured with compression level as either deflate or aggr-deflate.		
Workaround :	Change the VE tunnel compression level from aggr-deflate to fast-deflate.		

Defect ID:	DEFECT000565623		
Technical Severity:	Medium	**Probability:**	Low
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:**	Management GUI
Symptom:	Entries in name server tab in Web Tool won't be removed on switchdisable.		

Condition: This issue is seen when user runs switchdisable/chassisdisable on a switch.

Defect ID: DEFECT000565660	
Technical Severity: Low	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Management
Reported In Release: FOS7.4.1	**Technology:** Configuration Fundamentals
Symptom: Changing configuration on management ports using the CLI command ipaddrset may lead to the user being logged out of the current ssh session.	
Condition: This issue is specific to the ipaddrset CLI command only.	

Defect ID: DEFECT000566341	
Technical Severity: Low	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Management
Reported In Release: FOS7.3.1	**Technology:** SNMP - Simple Network Management Protocol
Symptom: When attempting to get the operational status of the VE tunnel port using SNMP, a value of 4 is returned (which indicates unknown) instead of the actual status.	
Condition: This behavior is specific to BR7840 switches.	

Defect ID:	DEFECT000567099	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release:	FOS8.0.1	**Technology:** Fibre Channel Services
Symptom:	Software VERIFYs with pattern "lgdb->port[port_dst] == NULL" may be seen during HA failover.	
Condition:	This issue does not occur under normal HA conditions. This may happen under rare error conditions during HA recovery and it does not affect the regular functionality of the switch.	

Defect ID:	DEFECT000567324	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Extension
Reported In Release:	FOS8.0.1	**Technology:** WAN Performance Analysis Tools
Symptom:	The WAN Tool session reports higher than expected round trip times.	
Condition:	This occurs when the WAN Tool session is configured with jumbo frames and has a committed rate equal to the physical interface speed.	
Workaround:	Reconfigure the WAN Tool session's committed rate to be less than the physical interface speed.	

Defect ID:	DEFECT000567540	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release:	FOS8.0.1	**Technology:** Configuration Fundamentals
Symptom:	System may encounter Raslogs ERCP-1000, RAS-1000 during firmwaredownload. For example: "[ERCP-1000], 7, FFDC | CHASSIS, CRITICAL, Skybolt214, Multiple DDR ECC errors are detected and the system will reload automatically". followed by "[RAS-1001], 8, CHASSIS, INFO, Skybolt214, First failure data capture (FFDC) event occurred".	
Condition:	This is seen only on Brocade 7840 switch following firmwaredownload.	

Defect ID:	DEFECT000567544	
Technical	High	**Probability:** High

Severity:	
Product: Brocade Fabric OS	**Technology Group:** Monitoring
Reported In Release: FOS8.0.0	**Technology:** D-Port - Diagnostic Port
Symptom: User may observe D_Port test hang/stuck in progress state.	
Condition: This may be encountered when D_Port test is performed with Q-Logic HBA.	
Recovery: Run "portDportTest --stop <port>" command to stop the test and clear the D_Port configuration.	

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: 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:	DEFECT000567817		
Technical Severity:	Critical	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.1.0	**Technology:**	Configuration Fundamentals
Symptom:	Firmware upgrade fails on a director with the standby CP remaining in a constant powering up state.		
Condition:	This can occur when an Ethernet cable is plugged into the console port, instead of a serial console cable.		

Defect ID:	DEFECT000568377		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.0	**Technology:**	Software Installation & Upgrade
Symptom:	Firmwaresync fails due to timeout when standby CP is running FOS 7.2 or older and active CP is running FOS 7.4.		
Condition:	Occurs when active CP is running FOS 7.4 and standby CP is running FOS 7.2 or older, and when switch CPU is busy with SNMP, BNA polling.		
Workaround:	Perform firmwaresync again after 10 minutes.		
Recovery:	Times out after 10 minutes, then firmware sync should pass		

Defect ID:	DEFECT000568423		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Distance
Reported In Release:	FOS7.2.1	**Technology:**	FCIP - Fibre Channel over IP
Symptom:	Intermittent I/O Failures through an 7800/FX8024 or 7840 FCIP Tunnel due to processing an Extended Link Services PDISC (Discover N_Port Service Parameters) Request.		
Condition:	When processing a received ELS-PDISC on a FCIP non-emulating Tunnel.		

Defect ID:	DEFECT000568850		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Security

Reported In Release:	FOS7.3.1	Technology: AD - Admin Domains	
Symptom: Default users are unable to delete local users who have access to VF "0".			
Condition: This behavior is seen in all platforms in FOS version greater than FOS v6.x, when a default user try to delete a local user which was created in FOS v6.x with Vf "0".			

Defect ID: DEFECT000569309			
Technical Severity:	High	Probability: Low	
Product: Brocade Fabric OS		Technology Group: Monitoring	
Reported In Release:	FOS7.4.0	Technology: MAPS - Monitoring and Alerting Policy Suite	
Symptom: MAPS mdd process terminates when running supportsave.			
Condition: This occurs from a race condition that sometimes may cause a NULL pointer access during MAPS data collection performed as part of supportsave.			

Defect ID:	DEFECT000569665		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:**	Software Installation & Upgrade
Symptom:	Termination of NPD detected on new Active CP during firmware upgrade. Firmwaredownload completes successfully but system fails to regain HA sync.		
Condition:	This may be observed due to a very high CPU usage condition, during which time IPC messages may time out and lead to NPD termination by software watchdog.		
Recovery:	schedule a maintenance window and reboot the active CP to regain HA sync.		

Defect ID:	DEFECT000569674		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.0	**Technology:**	Fibre Channel Services
Symptom:	HA out of sync due to invalid zone configuration.		
Condition:	This issue is observed when a user tries to add a zone member with more than 64 characters to a zone configuration and then does cfgsave or cfgenable in a chassis.		

Defect ID:	DEFECT000569678		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS7.2.1	**Technology:**	Hardware Monitoring
Symptom:	Software Fault:Kernel Panic - Detected multiple termination of process emd.		
Condition:	This occurs when polling scripts send large amount of portshow commands to the emd process in a short burst of time.		
Workaround:	Modify the scripts to space out such polling bursts over a larger period of time, use port range in portshow commands rather than back to back consecutive polls of individual ports.		

Defect ID:	DEFECT000570356		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Extension
Reported In	FOS8.0.1	**Technology:**	FCIP - Fibre Channel over IP

Release:	
Symptom:	FCIP DP FFDC after multiple DRAM2 memory pool warnings via XTUN-1008 messages.
Condition:	After running WAN tool to test an FCIP Circuit, DP events caused complete depletion of the DRAM2 pool on a DP.
Workaround :	Insure that all WAN tool tests are deleted after running tests.

Defect ID:	DEFECT000570370		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.0.0	**Technology:**	Configuration Fundamentals
Symptom:	First Failure Detection Capture (FFDC) might be seen after D-port test.		
Condition:	FFDC seen after a D-port test is ran on BR7840 which may cause memory corruption. The symptoms might be seen much later after the D-port test. There is no impact to data frames.		

Defect ID:	DEFECT000570535		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS7.3.0	**Technology:**	Rate Limiting and Shaping
Symptom:	Though -ap option in aptpolicy command is removed from 7.3, user is still allowed to execute the command.		
Condition:	This behavior is seen with all the platforms where aptpolicy command is supported.		

Defect ID:	DEFECT000570606		
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:	Small frames may be delayed up to one millisecond through the extension tunnel.		
Condition:	This may be observed on a 7840, during periods of low throughput, on a compression enabled extension tunnel.		

Defect ID:	DEFECT000570789		
Technical	Medium	**Probability:**	Low

Severity:	
Product: Brocade Fabric OS	**Technology Group:** Management
Reported In Release: FOS7.3.1	**Technology:** Fibre Channel Addressing
Symptom: In Name server table the "WWN Company ID" column is not populated.	
Condition: When the target device is connected to the Switch.	

Defect ID: DEFECT000570851	
Technical Severity: High	**Probability:** Medium
Product: Brocade Fabric OS	**Technology Group:** Security
Reported In Release: FOS8.0.0	**Technology:** AAA - Authentication, Authorization, and Accounting
Symptom: Switch fails to boot up with: [HAM-1004], 2378, CHASSIS, INFO, , Processor rebooted - Software Bootup Failure:Bringup timed out and with error on concole such as: SSLCertificateFile: file '/etc/fabos/certs/sw0/*.pem' does not exist or is empty.	
Condition: When enabling https and performing certificate change via CLI "seccertutil genkey" in a none default FID.	
Workaround : Make certificate change in default FID.	

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 16G blade that fails PCI scanning in chassis based systems might result in Rolling Reboot.	

Defect ID: DEFECT000571927	
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: Disruptive reboot of the FCIP DPs on BR7840 during Hot Code Load (HCL).	

Closed with Code Change in Fabric OS v7.4.2a

Condition:	When HCL is attempted after one or more tunnel bounces, the FC Flush logic can examine an internal credit counter and assume that FC flush failed.

Defect ID:	DEFECT000572616		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.0.0	**Technology:**	Software Installation & Upgrade
Symptom:	Some CLI commands such as ipaddrshow, ssh, telnet etc. may depict slow execution times and impact the user's ability to enter a follow-up CLI command particularly if it follows a previous command and user doesn't wait for the CLI prompt.		
Condition:	This may be encountered when ipV6 is enabled in the switch and in the presence of an ipv6 router in the network.		

Defect ID:	DEFECT000572790		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.0	**Technology:**	Inband Management
Symptom:	VPD version 2.05 and EHCM-L3 capability bits are not set for Brocade 6547 switch and consequently are not shown in vpd_show command.		
Condition:	This is seen only on Brocade 6547.		

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:	DEFECT000573629		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.1	**Technology:**	Configuration Fundamentals
Symptom:	IP configuration from Chassis Management Module (SVP) will fail the first time		

after power-cycle.	
Condition: Issue may be seen on embedded platforms.	
Recovery: Re-do the IP configuration from SVP. It will succeed after the first failure.	

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:	DEFECT000574013		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:**	Software Installation & Upgrade
Symptom:	The command 'firmwarecommit -f' may need to be run manually on the standby CP to recover from a firmwaredownload failure after a firmwaredownload timeout.		
Condition:	In a rare situation, following a dual CP firmwaredownload timeout, the expected recovery of the standby CP may fail due to ping failure triggered by race condition.		
Workaround :	Manually invoke firmwarecommit on the standby CP where firmwaredownload timed out.		
Recovery:	Manually invoke firmwarecommit on the standby CP where firmwaredownload timed out.		

Defect ID:	DEFECT000574230		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS8.0.1	**Technology:**	Port Bring-up
Symptom:	Unexpected switch Panic may be encountered, triggered by memory corruption.		
Condition:	This may occur on switches with Eport trunks, when performing slotpoweroff/on, enable/disable of slave ports.		

Defect ID:	DEFECT000574253		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.0.1	**Technology:**	SNMP - Simple Network Management Protocol
Symptom:	Inconsistent enc_out stats between portstatsshow and SNMP may be encountered.		
Condition:	This may occur under rare circumstance where top 32 bits of internal error counter is incremented.		
Workaround :	Portstatsshow readings are accurate. Ignore the discrepancy seen in SNMP.		

Defect ID:	DEFECT000574562		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management

	Group:
Reported In Release: FOS7.3.1	**Technology:** Port Bring-up
Symptom: Some F ports may be fenced with error message " FEC TTS is only supported on F_Port".	
Condition: This may be encountered when a CEC has a power on reset.	

Defect ID: DEFECT000574717	
Technical Severity: High	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Management
Reported In Release: FOS6.4.3	**Technology:** Fibre Channel Services
Symptom: Switch software panic encountered due to Out of Memory condition.	
Condition: This may occur only when Admin Domain (AD) is activated and the device in the fabric sends GAPNL query about another device (either remote or local) which is not part of same AD.	
Recovery: Proactively perform hareboot/hafailover when free memory is observed to go low.	

Defect ID: DEFECT000574862	
Technical Severity: Medium	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Monitoring
Reported In Release: FOS7.2.1	**Technology:** RAS - Reliability, Availability, and Serviceability
Symptom: Raslog message severity is not synced between active and standby.	
Condition: This issue is seen when user changes the severity of raslog message using rasadmin command.	

Defect ID: DEFECT000574943	
Technical Severity: High	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Extension
Reported In Release: FOS7.2.1	**Technology:** FCIP - Fibre Channel over IP
Symptom: Host Discovery issues after FOS upgrade in an FCR backbone to edge configuration. Edge to edge configurations are not impacted.	
Condition: It only applies to Brocade 7800 with 2 VEX ports which were configured with pre-FOS v7.2.0 and the switch has been non-disruptively upgraded since then.	
Workaround: A reboot will clear the problem after upgrade. No reboot is needed when upgrade to a fixed FOS revision.	

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:	DEFECT000575101		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS8.0.0	**Technology:**	FICON
Symptom:	Encountered unexpected cold reboot of the system triggered by kernel panic.		
Condition:	This is seen in FICON environment during device power on and off stress test.		

Defect ID:	DEFECT000575740		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:**	SNMP - Simple Network Management Protocol
Symptom:	Link up/Link down trap events of management fc interfaces that starts with fc0 contain incorrect ifindex as varbind.		
Condition:	This happens on all the platforms and all the versions of FOS.		

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 occurs after receiving 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:	DEFECT000576282		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:**	Fibre Channel Services
Symptom:	Brocade switches hareboot due to Out of Memory (OOM) condition.		
Condition:	This is seen only on Brocade non-director switches (except Brocade BES, 7800 and 7840) running FOS versions v7.2.1f, v7.3.1c or v7.4.1. This occurs due to OOM condition from a memory leak during the periodic polling of digital diagnostic monitoring capable SFPs. Directors are not impacted.		
Workaround :	Monitor memory availability before performing any memory intensive operations such as supportsave and perform hareboot as necessary. The switch does attempt autorecoery via hareboot upon hitting a low memory threshold to recover f rom this condition without impacting traffic.		
Recovery:	No explicit recovery is required as the switch attempts a non disruptive autorecovery from the memory loss, via hareboot, upon hitting a low memory threshold. However performing certain operations such as supportsave while the system is in low memory state may lead to this Out of Memory Panic of the switch and impact traffic.		

Defect ID:	DEFECT000576355	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release:	FOS7.3.1	**Technology:** CLI - Command Line Interface
Symptom: After answer "n" to "reboot" CLI, switch is left in disabled state.		
Condition: It happens on BR5481, "reboot" CLI cannot be cancelled.		
Recovery: Use switchenable to enable switch ports back.		

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:	DEFECT000576404	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Security
Reported In Release:	FOS7.4.0	**Technology:** Security Policies
Symptom: Passwddefault CLI command should be for use by root users only. It is currently permitted for admin user.		
Condition: This is encountered with passwddefault CLI command.		

Defect ID:	DEFECT000576721	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release:	FOS7.3.1	**Technology:** Fibre Channel Services
Symptom: Kernel Panic with zoned termination after zoned exceeds max thread.		
Condition: It happens where scripting with CLI such as portzoneshow without much delay in between or excessive queries for admin domain list from external management application.		
Workaround: Reduce excessive polling for any zone command through external application or scripting. Adding proper delays between CLIs can also avoid this issue.		

Defect ID:	DEFECT000576960	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release:	FOS7.4.0	**Technology:** Configuration Fundamentals
Symptom: The Restore Factory Defaults command may fail midway and certain features like zoning config may not be set to default values.		
Condition: This may be encountered when attempting to restore factory default configuration.		

Defect ID:	DEFECT000577166	
Technical Severity:	High	**Probability:** Low
Product: Brocade Fabric OS		**Technology Group:** Traffic Management
Reported In Release:	FOS7.4.1	**Technology:** Port Bring-up
Symptom: F_Ports may remain stuck in IN_SYNC state or		

Frame drops on E_Port or trunks with raslog NBFS-1005.	
Condition:	SFPs are swapped, in system running FOS releases prior to FOS v7.1, while the corresponding ports are in disabled state and the system is subsequently non-disruptively upgraded to FOS 7.2.1f, 7.3.1c, 7.3.2, 7.4.1, 7.4.1a, 7.4.1b.
Workaround:	Run sfpshow -f before upgrade from FOS v7.0.x releases up to FOS v7.4.1,7.4.1a and 7.4.1b or directly upgrade to FOS v7.4.1c with the fix. Also effects FOS v7.3.1c, v7.3.1d, v7.2.1f and v7.2.1g.
Recovery:	For F-port, bounce the port to recover. For trunk ports, disable ports in the trunk one at a time and then enable all ports.

Defect ID:	DEFECT000577183		
Technical Severity:	High	**Probability:** High	
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.0	**Technology:**	Software Installation & Upgrade
Symptom:	BR5432-24 fails firmware upgrade from FOS7.3.0c to FOS7.4.1 leading to a Kernel panic from - Oops: kernel bad area, sig: 11.		
Condition:	This issue is specific to BR5432-24 when upgrading from FOS7.3.0c to FOS7.4.1.		

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 tools.		
Condition:	This issue is encountered when FID is swapped between default and other logical switch and login to default switch via webtools using a user whose home logical FID is 128.		

Defect ID:	DEFECT000577245		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.0	**Technology:**	Software Installation & Upgrade
Symptom:	After firmware upgrade, the ip address of management interface may be not set up correctly.		
Condition:	Enabled dhcp for management interface before firmware upgrade. The problem only happens on firmware upgrade to FOS v7.4.x.		
Recovery:	Reboot switch after firmwaredownload.		

Defect ID:	DEFECT000577864		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.0_CBN	**Technology:**	NPIV - N-Port ID Virtualization
Symptom:	Multiple N-Port failovers on AG switch cause LUNs to disappear.		
Condition:	It happens when Fports come online while there is no N-port online in the Port Group/switch, AG disables the port due to no N-ports, and later, when an N-port comes on line, N-port failback brings Fports back online. If Fports send ABTS at this time to abort the previous login, login entries are cleared from the switch DB.		

Defect ID:	DEFECT000578083		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In	FOS8.0.1	**Technology:**	Flow Vision

Release:	
Symptom: Wrong port number is displayed in the topology path.	
Condition: When run "flow --show" to see flow dash port data.	

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: DEFECT000578360	
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: IPSec enabled extension tunnels on Brocade 7840 will not establish when utilizing VLAN tagged IP interfaces.	
Condition: This is encountered when the Brocade 7840 pair has an IPSec enabled extension tunnel utilizing a VLAN tagged IP interface.	
Workaround: Disable IPSec on the extension tunnel, or utilize an untagged IP interface.	

Defect ID: DEFECT000578406	
Technical Severity: Critical	**Probability:** Medium
Product: Brocade Fabric OS	**Technology Group:** Traffic Management
Reported In Release: FOS7.4.1	**Technology:** Fibre Channel Routing
Symptom: Host is unable to access storage after the host reboots following an upgrade to FOS7.4.1. Host is unable to access storage and RTWRs can be seen after E-ports are disabled and enabled following an upgrade to FOS7.4.1.	
Condition: This occurs after a non-disruptive upgrade to FOS7.4.1 with 8G switches under the following conditions: - The switch has two equal-bandwidth links/trunks to another switch.	

- An F-port goes offline and then back online after upgrade.
- The device on that F-port will not be able to regain access to other devices across the two equal-bandwidth links/trunks.

Alternative conditions after a non-disruptive upgrade to FOS7.4.1 with 8G switches:
-       The switch has multiple pairs of equal-bandwidth links/trunks to another switch.
-       A single E-port link or all E-ports in a trunk go offline and then back online.
       o Devices fabric wide may not be able to regain access to other devices across the related pair of links/trunks.
-       All E-ports to another switch go offline and back online
       o RTWR RASLOGs related to other domains will be seen on the switch at the other end of those links/trunks.

Workaround:	Avoid two qual-bandwidth links/trunks via adding an ISL to avoid the issue.
Recovery:	Bounce one E-port in a two-path. Even if there are trunks, only one E-port in one trunk needs to be bounced. If there are multiple pairs of equal-bandwidth links/trunks, disabling and then enabling one E-port in each pair must be done.

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:	DEFECT000578927		
Technical	High	**Probability:**	High

Severity:	
Product: Brocade Fabric OS	**Technology Group:** Extension
Reported In Release: FOS8.0.1	**Technology:** FCIP - Fibre Channel over IP
Symptom: BR7840 encountering [C3-1012], 5/3, CHASSIS, WARNING,, S0,P-1(8): Link Timeout on internal port with lost credits.	
Condition: When running FCIP traffic over the FCIP Tunnel - appears to be related to bursty nature of the I/O over the tunnel.	

Defect ID:	DEFECT000580096		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.0	**Technology:**	Configuration Fundamentals
Symptom:	16G director has kernel panic while gather flow statistics.		
Condition:	It happens after a hafailover on a 16G director with network patroller flow configured.		

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 fcippathtest as part of diag POST on BR7800		
Workaround:	Disable POST.		

Defect ID:	DEFECT000580719		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS7.4.0_AMP	**Technology:**	Fibre Channel Routing
Symptom:	Adding AMP to fabric caused device to lose connectivity.		
Condition:	After upgrade from FOS v7.3.x to v7.4.0x and FOSv7.4.1, with existing F/E port on an ASIC chip, enable AE port on the same chip may cause routing problems in the switch.		
Recovery:	Reboot switch to recover.		

Defect ID:	DEFECT000580747		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS7.4.1	**Technology:**	Flow Vision
Symptom:	RFM is still active after downgrade to a pre-FOSv7.4.1a release that does not support		

RMF and ECB coexistence.	
Condition: Downgrade code to release that does not support RFM and ECB coexistence.	
Workaround : Deactivate RFM when ECB is active after code downgrade.	

Defect ID:	DEFECT000580863		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS7.3.1	**Technology:**	ISL - Inter-Switch Linking
Symptom:	After hafailover, hosts may lose paths to storage devices in the fabric.		
Condition:	For this issue to occur, the following conditions must exist: 1. Hosts are connected to a logical switch that has enabled XISL. 2. Storage devices are reachable across a logical ISL -- i.e. the ISLs are in the base switch. 3. The trunk master of a base switch ISL trunk (with two or more trunked ports) bounces. 4. hafailover or hareboot occurs -- either manually or as part of non-disruptive firmwaredownload.		
Recovery:	There are two possible recovery scenarios: 1. Bounce all trunk ports -- i.e. Bring all ports in the trunk offline and then bring them all back online. …or… 2. hafailover.		

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 mibcapability i.e Action to enable or disable a MIB/TRAP fails.	
Condition:	This issue in seen on all platforms with FOS v7.4 and above when the user tries modifying mibcapability.	

Defect ID:	DEFECT000581598	
Technical Severity:	High	**Probability:** High
Product:	Brocade Fabric OS	**Technology Group:** Extension
Reported In Release:	FOS7.4.0	**Technology:** FCIP - Fibre Channel over IP
Symptom:	IOS000I - CHANNEL PROTOCOL ERROR on FICON emulated tape device displayed on device console.	
Condition:	FCIP Tunnel with FICON Tape Pipelining enabled when a 3590 (or tape device) replies to a generated No-Op command with Command Retry Status.	
Workaround:	Disable FICON Tape Pipelining on the tunnel or insure that there are more devices online between the LPAR and the controller than there are active tape jobs. If there is an idle tape device, the controller will present the attention on that device instead of an active device and will avoid the issue.	

Defect ID:	DEFECT000581627	
Technical Severity:	High	**Probability:** Medium
Product:	Brocade Fabric OS	**Technology Group:** Monitoring
Reported In Release:	FOS7.2.1	**Technology:** Hardware Monitoring
Symptom:	Switch may encounter false alarms for failed blowers and high temperatures, leading to an attempt to initiate switch shutdown.	
Condition:	This may occur if ports with No_Modules (vacant ports) are periodically polled using sfpshow <port#> -f via external script or CLI. This external polling may clash with the periodic internal EM polls and result in misreadings from the blowers.	
Workaround:	If possible avoid periodic external polling that uses CLI command sfpshow <port #> -f. O therwise insert good SFPs in vacant ports.	
Recovery:	Insert good SFPs in vacant ports and/or stop any external SFP polling script (that uses sfpshow <port#> -f) and then re-seat the failed blowers or reboot the switch.	

Defect ID:	DEFECT000581775		
Technical Severity:	Medium	**Probability:** High	
Product: Brocade Fabric OS		**Technology Group:**	Traffic Management
Reported In Release:	FOS7.4.0	**Technology:** FICON	
Symptom: Identical Node descriptors observed for two different physical ports.			
Condition: This may occur in a FICON environment, where duplicates node descriptors may be generated in a director with large port-counts.			

Defect ID:	DEFECT000581939		
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS8.0.1	**Technology:** Fibre Channel Services	
Symptom: Observed "termination of mdd" and mdd is restarted without functional impact.			
Condition: It happened while executing the command "logicalgroup" with option "update".			

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 an hareboot or hafailover on a 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:	DEFECT000582900		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.2.1_HIL	**Technology:**	Access Gateway
Symptom:	The user may encounter mismatch in AG Port Group configuration, where N-ports remain part of user defined Port Group instead of being associated with the default Port Group.		
Condition:	This may occur when Load Balancing Policy is enabled for the Port Group and all N-ports are part of the same user defined Port Group.		
Workaround:	User can Manually delete N-ports from the user defined Port Group using "ag --pgdel" CLI.		

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:	DEFECT000583780	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Extension
Reported In Release: FOS8.0.1		**Technology:** Extended Fabrics
Symptom: Switch panic triggered by DP panic on extension platforms.		
Condition: Under Race condition, when a freed WQE is re-used, during IP traffic is started after HCL.		

Defect ID:	DEFECT000584234	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Monitoring
Reported In Release: FOS7.4.1		**Technology:** Analytics Monitoring
Symptom: Switch may report raslog MAPS-1003 alert, indicating greater than expected IOPs per second even though the IOP rate is below threshold.		
Condition: This condition may occur if the single ASIC is overloaded with traffic and AE port is on the same ASIC.		

Defect ID:	DEFECT000584796		
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:	Extension tunnels on the 7840 may go down and stay in an "in-progress" state.		
Condition:	This condition can occur on an extension tunnel whose IP addresses receive an extremely large amount of ICMP messages other than Echo Request(type 8), Echo Reply(type 0), or Time Exceeded(type 11).		
Recovery:	A reboot is necessary to clear this condition.		

Defect ID:	DEFECT000585430		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.1	**Technology:**	High Availability
Symptom:	Switch may report HA not in sync, along with raslog FSS-1009 2016/01/22-10:05:25, [FSS-1009], , | FFDC | , ERROR, , FSS Error: fcsw3-swc: sync-failure: -6		
Condition:	This may happen during device offline event on a busy system.		
Recovery:	Reboot standby CP.		

Defect ID:	DEFECT000585439		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.0.1	**Technology:**	Access Gateway
Symptom:	When switch is put in AG mode, the F-port goes into G-port and cannot be recovered.		
Condition:	This occurs when 3rd party device is sending back to back FLOGI requests before getting FLOGI response for the first FLOGI request.		

Defect ID:	DEFECT000585776		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Extension
Reported In	FOS8.0.1	**Technology:**	FCIP Tunnel Management

Release:	
Symptom: ESM-1101 error message seen with 'Unable to allocate memory' condition. Can also sometimes result in a esmd panic.	
Condition: Issuing 'portcfgshow ipif|iproute|fciptunnel|fcipcircuit' or other extension related 'portcfgshow' commands can cause the error.	

Defect ID:	DEFECT000586412	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Extension
Reported In Release:	FOS8.0.1	**Technology:** Extended Fabrics
Symptom: DPs on BR7840 switch panic and recovery while disabling compression.		
Condition: After modifying the FCIP Tunnel to not have software compression enabled (when disabling "Deflate" or "Aggr-Deflate" on an active FCIP Tunnel.		

Defect ID:	DEFECT000586788		
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:	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:	DEFECT000586977		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.0.1	**Technology:**	Virtual Fabrics
Symptom:	Switch panic occurs while performing any zone transactions (like cfgdisable/cfgenable/setting defzone) when there is an LISL present on the logical switch.		
Condition:	Create LISL on a logical switch. After the fabric is up, set def zone access to allaccess/noaccess. Switch panic occurs while performing cfgsave operation.		

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:	DEFECT000587258		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In	FOS8.0.1	**Technology:**	Configuration Fundamentals

Release:	
Symptom: Port detected busy buffer stuck error and then port initialization was retried.	
Condition: In a timing window when there is incoming frame needs CP processing and a link reset event happens on the link.	

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: DEFECT000588160	
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: C3-1012 and I/O timeouts occur during Extension Hot Code Load (HCL) processing.	
Condition: Problem can occur during Extension HCL on a 7840 with heavy FCIP traffic through the tunnel(s).	

Defect ID: DEFECT000588368	
Technical Severity: Medium	**Probability:** Medium
Product: Brocade Fabric OS	**Technology Group:** Traffic Management
Reported In Release: FOS7.4.0	**Technology:** Port Bring-up
Symptom: Third party tape devices may have problems coming online.	
Condition: Port will experience error when connecting certain types of 3rd party tape devices with Brocade 16G platforms.	
Workaround: Use portcfgnondfe CLI to enable optimal mode 3rd party tapes.	

Defect ID: DEFECT000588485	
Technical Severity: Medium	**Probability:** Low

Product: Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release: FOS7.2.1	**Technology:** Port Bring-up	
Symptom: Switch in AG mode reboots.		
Condition: This may occur when host is rebooted and switch did not discard the ABTS frame for the FLOGI while N-port is undefined.		

Defect ID: DEFECT000588834		
Technical Severity: High	**Probability:** High	
Product: Brocade Fabric OS	**Technology Group:**	Extension
Reported In Release: FOS7.4.0	**Technology:** Extended Fabrics	
Symptom: Continuous DP panics on BR7840 and loss of ip interface configurations.		
Condition: When there is Ethernet jumbo frames (non-IP) coming on the LAN/WAN ingress paths.		

Defect ID: DEFECT000589265		
Technical Severity: Medium	**Probability:** Low	
Product: Brocade Fabric OS	**Technology Group:**	Extension
Reported In Release: FOS8.0.1	**Technology:** FCIP Tunnel Management	
Symptom: DP panic during Hot Code Load (HCL) failover/failback with non-emulated FC traffic and HCL failures.		
Condition: Multiple LS with FCIP tunnels whose VE share the same VC and use different routing policies during FCIP HCL processing.		

Defect ID: DEFECT000589472		
Technical Severity: Medium	**Probability:** Low	
Product: Brocade Fabric OS	**Technology Group:**	Security
Reported In Release: FOS7.4.0	**Technology:** Security Policies	
Symptom: CLI ipfilter disallows configuring a port value greater than 1024.		
Condition: This occurs when creating an ipfilter policy rule with port value greater than 1024. This is not permitted and results in an error message: Invalid port number(range) for IP filter policy rule.		

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:	DEFECT000590415		
Technical Severity:	High	Probability: Low	
Product: Brocade Fabric OS		Technology Group:	Management
Reported In Release:	FOS7.2.1	Technology: Access Gateway	
Symptom:	Discrepancy is seen between the outputs of CLI commands "ag --show" and "ag --mapshow" on AG switch.		
Condition:	This may occur on AG switches in no policy mode. When the F- port comes online, the mapped N-port is not updated as the current N-port for the F-ports.		

Defect ID:	DEFECT000590745		
Technical Severity:	High	Probability: High	
Product: Brocade Fabric OS		Technology Group:	Monitoring

		Group:	
Reported In Release:	FOS8.0.1	**Technology:** Flow Vision	
Symptom: Flow Vision daemon (npd) may crash on a switch during firmwaredownload.			
Condition: User may encounter this behavior only on an Analytics Monitoring Platform enabled fabric during a switch disable/enable or reboot or hafailover operations.			
Recovery: Deactivate sys_analytics_vtap flow and restart npd daemon.			

Defect ID: DEFECT000590865			
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: For TCP flows, portshow lan-stats --global doesn't display TX ASIS counters properly.			
Condition: When TCP traffic is sent through an IPEX enabled VE due to TCL's non-terminated functionality, TX ASIS counters are not updated properly.			

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:	DEFECT000591136		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:**	High Availability
Symptom: Customer may encounter a CP panic during rare PCI access errors.			
Condition: This may be encountered as a result of a faulty blade that triggered CP to process a bad PCI read data.			
Recovery: Replace the faulty blade.			

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:	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:	DEFECT000591754		
Technical Severity:	High	**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: 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 portnames 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 portname. The configuration database is not properly synced in such situations.		
Workaround :	Reconfigure all ports (that have a carriage return in the portname) to remove the carriage returns from the portnames.		
Recovery:	Reconfigure missing portnames, taking proper caution not to insert any carriage return in the portnames.		

Defect ID:	DEFECT000592506		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.0.1	**Technology:**	Configuration Fundamentals
Symptom:	The customer may encounter the following ASSERT error during support save data collection, followed by a VERIFY error after failover from the ASSERT. ASSERT - Failed expression: op != NULL, file = /vobs/projects/springboard/build/swbd165/fabos/src/sys/lib/fabos/fabobj_mgr/fabport.c, line = 2990, kernel mode args = 0		
Condition:	This ASSERT may occur after invoking supportsave or from issuing the CLI command porterrshow.		

Defect ID:	DEFECT000592702		
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:	Limited tunnel performance after completing Extension HCL – Tunnel(s) is/are in flow control.		
Condition:	After completing a firmware download to a new FOS release with Extension HCL		

	enabled.
Workaround:	Perform disruptive firmware download.
Recovery:	Disable and re-enable the VE ports/FCIP Tunnels.

Defect ID:	DEFECT000592997		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS8.0.1	**Technology:**	Fibre Channel Routing
Symptom:	Possible traffic disruption after powering on (or inserting) a core blade which has an ICL in a TI Zone.		
Condition:	The core blade with the ICL in the TI Zone is powered on (or inserted) after a hafailover command. It is assumed that the core blade was powered off (or removed) before the hafailover command.		
Workaround:	Do not hafailover between slotpoweroff and slotpoweron of a core blade.		
Recovery:	1. Deactivate the TI Zone with the affected ICL. 2. Power cycle the affected core blade. 3. Activate the TI Zone with the affected ICL.		

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-Ports.		
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:	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 portcfgeportcredits 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 portcfgeportcredits.		

Defect ID:	DEFECT000593781		
Technical	Medium	**Probability:**	High

Severity:	
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: DEFECT000593988	
Technical Severity: High	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Traffic Management
Reported In Release: FOS7.3.1	**Technology:** ISL - Inter-Switch Linking
Symptom: Switch panic may occur, resulting from secd termination.	
Condition: This may be encountered when a remote switch is rebooted or a new remote switch is connected to fabric.	

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: 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
	    > /sbin/hwclock
	      RTC_RD_TIME: Bad address
	      ioctl() to /dev/rtc to read the time failed.
	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:	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 of Fport 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 Fports belonging to MAPS group.		
Recovery:	Perform an hareboot to failover to the standby CP.		

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:	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:	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:	DEFECT000595584		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.0.1	**Technology:**	Software Installation & Upgrade
Symptom:	Encountered INSTALL26: ERROR - Cannot get file - SWBD109/version.conf.		

when executing firmwarecleaninstall.	
Condition: This may be encountered only on brocade switches 6505 and 6510 during firmwarecleaninstall.	

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 a switch runs out of shared memory, processes terminate or CLI cannot be run and the following error will be seen. 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: 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:	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:	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:	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 up.
Condition:	This occurs following GE port disable or switchdisable with IPSec configured tunnels.

Defect ID:	DEFECT000596508		
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:	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:	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:	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:	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:	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 swtich csr and recreate the csr from default switch ID.		

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:	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. This 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:	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:	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:	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:	DEFECT000600771		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Security
Reported In Release:	FOS7.4.1	**Technology:**	LDAP - Lightweight Directory Access Protocol
Symptom:	Supportsave data does not include output from "ldapcfg --show" command.		
Condition:	This is required to help troubleshoot LDAP issues.		

Defect ID:	DEFECT000600808		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.0	**Technology:**	Fibre Channel Services
Symptom:	Switch panics after fabric daemon termination.		
Condition:	This issue is seen during race condition while doing "lscfg --delete".		

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:	DEFECT000601590		
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:	MAPS dashboard reports Critical for Faulty Ports even after the percent falls below the trigger value.		
Condition:	This is encountered when SFPs are faulted because they are not part of valid SFP matrix.		

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

Defect ID:	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: 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: 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: DEFECT000604285			
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:** Software Installation & Upgrade	
Symptom: Brocade switch may encounter a Cold Reboot with Raslog: HAM-1007 "Need to reboot the system for recovery, reason: Software Bootup Failure:Bringup timed out."			
Condition: This may occur on non-chassis systems following a firmwaredownload or an hareboot.			

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.

Closed with Code Change in Fabric OS v7.4.2a

Defect ID:	DEFECT000604966		
Technical Severity:	Medium	**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:	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 one of its two 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 8G 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:	DEFECT000607159		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.1	**Technology:**	Configuration Fundamentals
Symptom:	CP paniced 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:	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:	DEFECT000607529		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Extension

Closed with Code Change in Fabric OS v7.4.2a

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:	DEFECT000607751		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.1	**Technology:**	CLI - Command Line Interface
Symptom: Port health in "portshow" CLI is inaccurate on EX-port.			
Condition: Port health/state is not getting updated after EX-Port disable and enable.			

Defect ID:	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**	Monitoring

		Group:	
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:	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:	DEFECT000609393		
Technical Severity:	Medium	**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:	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 loading 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:	DEFECT000610657

Technical Severity:	Medium	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: 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:	DEFECT000612329	
Technical Severity:	High	**Probability:** High
Product:	Brocade Fabric OS	**Technology Group:** Management
Reported In Release:	FOS8.1.0	**Technology:** Licensing
Symptom: CLI to set switch configuration to default never completes.		
Condition: Running "configdefault" when slot-based licenses are installed.		

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:	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:	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:	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:	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:	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 incorrectly report fans as faulty.
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:
	  - 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:	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:	DEFECT000616744		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.1.0	**Technology:**	Inband Management
Symptom:	User daemon terminated causing a switch panic after reading a corrupted frame		

buffer.	
Condition: During race condition when there is a frame trapped to CPU for handling or when there is a multi-frame sequence received out of order.	

Defect ID:	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:	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:	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:	DEFECT000618564	
Technical	High	**Probability:** Low

Severity:	
Product: Brocade Fabric OS	**Technology Group:** Security
Reported In Release: FOS7.4.1	**Technology:** HTTP/HTTPS
Symptom: Switch may go into a rolling reboot when CLI command seccertutil <genkey> is invoked.	
Condition: This occurs if a key that already exists is entered into the command, and then nothing is entered at the Select key size step.	

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: 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: DEFECT000619161	
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: I/O errors and low performance were observed on FCIP tunnels after Hot Code Load (HCL) sequences completed.	
Condition: After FCIP HCL completes on a BR7840 FCIP tunnel in a large configuration, the switch can get stuck in a persistent flow control state.	
Recovery: Manually reboot the impacted 7840s after FCIP HCL.	

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:	DEFECT000620060	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release: FOS8.1.0		**Technology:** Configuration Fundamentals
Symptom: User may encounter duplicate zone error when creating a peer zone using CLI command "zonecreate --peerzone .."		
Condition: This may occur on all platforms due to false duplicate entry reporting during peer zone creation.		

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:	DEFECT000620434	
Technical Severity:	Medium	**Probability:** Low
Product:	Brocade Fabric OS	**Technology Group:** Monitoring
Reported In Release:	FOS7.3.2	**Technology:** APM - Advanced Performance Monitoring
Symptom: AG has TopTalkers turned on and cannot be switched off.		
Condition: This is encountered only on an AG switch with Top Talkers turned on.		

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

Defect ID:	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:	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:	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:	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" when the functionality is enabled.		
Condition:	This is encountered with configdownload for TIZoneFilter.		

Defect ID:	DEFECT000622898		
Technical Severity:	High	**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:	DEFECT000623098		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS7.4.1	**Technology:**	Fibre Channel Routing
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.		

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:	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 firmwaredownload.		
Recovery:	Reboot switch.		

Defect ID:	DEFECT000624790	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release:	FOS7.4.1	**Technology:** CLI - Command Line Interface
Symptom: User is unable to login with SSH keys.		
Condition: This is encountered only after upgrade to 7.4.1e.		

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

Defect ID:	DEFECT000625172		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.1	**Technology:**	CLI - Command Line Interface
Symptom:	sysshutdown command does not work under admin login. Returns shutdown: must be root.		
Condition:	Run sysshutdown command under admin login with FOS7.4.1e.		

Defect ID:	DEFECT000625469		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS7.4.1	**Technology:**	Port Bring-up
Symptom:	Long distance links using SFPs with Part Numbers FTLX3670SCC**B08 may not come online.		
Condition:	This occurs only for SPFs with part numbers FTLX3670SCC**B08.		

Defect ID:	DEFECT000626156		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS7.4.1	**Technology:**	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Syntax error for BROCADE_MAPS-MIB.mib while import into mib browser.		
Condition:	This will be seen on switch running FOS 7.4.x.		

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 "sfpshow -f" does not display the updated values.		
Condition:	This will be seen on all the platforms and in all FOS versions.		
Workaround :	Execute sfpshow again to see the updated values.		

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:	It happened in a session based zoning configuration, where cpu load is high, fcp probing did not finish in time to refresh its wathcdog.		

Defect ID:	DEFECT000626505		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS7.4.1	**Technology:**	Hardware Monitoring
Symptom:	FANs may occasionally show 0 RPM.		
Condition:	This may occur under heavy CPU load.		

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:	DEFECT000626913		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.1.0	**Technology:**	High Availability
Symptom:	Pizzabox switch crashes after hareboot.		
Condition:	ISL trunk master port has an error and quickly goes offline and online during hareboot.		

Recovery: Switch should be recovered after it comes back up after the crash.	

Defect ID: 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:	DEFECT000628605		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management

Reported In Release:	FOS7.4.1	Technology: Fibre Channel Routing
Symptom: Devices may lose paths or may not be able to see all paths to their storage following an hareboot or hafailover.		
Condition: This may occur on any platform for devices that attempt to register COS.		

Defect ID:	DEFECT000629335	
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: 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.		

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 Invalid entry (Node Name or IP address is missing) exists for one of connected AG switch.		

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:	DEFECT000632217

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

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

Defect ID:	DEFECT000633978		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.0.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	IO Errors on FCIP FICON Extended devices.		

Condition:	When performing control unit maintenance on a FCIP FICON emulation extended device, short CU busy status is not correctly passed to the channel causing IO timeout IFCC.

Defect ID:	DEFECT000634603		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Monitoring
Reported In Release:	FOS7.4.1	**Technology:**	MAPS - Monitoring and Alerting Policy Suite
Symptom:	HA losing synchronization on director or switch reboot during firmware upgrade due to cald termination.		
Condition:	CAld is a restart-able daemon during normal production with no user impact; However, if Cald terminated during a very small HA window, director could lose HA sync and need a reboot to recover. Similarly switch could reboot. Cald termination was caused by an initialized pointer during DCE rule processing.		
Recovery:	Reboot director to regain HA		

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

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

Defect ID:	DEFECT000635804	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Monitoring
Reported In Release:	FOS8.0.1	**Technology:** MAPS - Monitoring and Alerting Policy Suite
Symptom: Loading MAPS policies and rules causes high memory utilization.		
Condition: It can happen when BNA polls Advance Monitors System (AMS) group. In addition, memory can be exhausted within a few minutes during Maps policy load when there is NPIV device port range configured in MAPS dflt_aggressive_policy.		
Workaround : Avoid to use port range in Maps policy configuration.		
Recovery: hafailover when memory is extremely low.		

Defect ID:	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.	

Closed with Code Change in Fabric OS v7.4.1e

This section lists the defects with Critical, High and Medium Technical Severity closed with a code change.

Defect ID:	DEFECT000515289		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS7.1.2	**Technology:**	MAPS - Monitoring and Alerting Policy Suite
Symptom:	IPfilter policies not enforced on standby CP, until after hafailover, and may be enforced on IPFC address on VF.		
Condition:	This (bypassing IPfilter policies enforcement) is encountered on standby CP.		

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:	DEFECT000560593		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:**	Fibre Channel Services
Symptom:	The parameter "switch.login.perSwitchMax" is not shown in configshow output.		
Condition:	When a key is not defined (i.e not yet configured by the user), system will display the default value for it. But this key is different in that it does not have a fixed default value. The default value is computed dynamically as a function of the platform. As such this behavior anomaly is per design.		

Defect ID:	DEFECT000563757		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In	FOS7.4.1	**Technology:**	Access Gateway

Release:	
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:	DEFECT000565123	
Technical Severity:	High	**Probability:** Low
Product: Brocade Fabric OS		**Technology Group:** Distance
Reported In Release: FOS7.4.0		**Technology:** FCIP - Fibre Channel over IP
Symptom:	Following RAS Logs would be observed, the values could be different. It could be DP0 or DP1. VE tunnel no. could be 24-33 on DP0 and 34-43 on DP1. [ESM-1010], 3475, FID 128, INFO, DS_7840_i2052142, DP0 is OFFLINE. [ESM-2105], 3476, FID 128, INFO, DS_7840_i2052142, VE tunnel 25 is DEGRADED. [RAS-1001], 3477, CHASSIS, INFO, Brocade7840, First failure data capture (FFDC) event occurred.	
Condition:	Traffic running on a VE tunnel configured with compression level as either deflate or aggr-deflate.	
Workaround: Change the VE tunnel compression level from aggr-deflate to fast-deflate.		

Defect ID:	DEFECT000566341	
Technical Severity:	Low	**Probability:** Low
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release: FOS7.3.1		**Technology:** SNMP - Simple Network Management Protocol
Symptom:	When attempting to get the operational status of the VE tunnel port using SNMP, a value of 4 is returned (which indicates unknown) instead of the actual status.	
Condition:	This behavior is specific to BR7840 switches.	

Defect ID:	DEFECT000569665	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release: FOS7.3.1		**Technology:** Software Installation & Upgrade
Symptom:	Termination of NPD detected on new Active CP during firmware upgrade. Firmwaredownload completes successfully but system fails to regain HA sync.	
Condition:	This may be observed due to a very high CPU usage condition, during which time IPC messages may time out and lead to NPD termination by software watchdog.	
Recovery:	schedule a maintenance window and reboot the active CP to regain HA sync.	

Defect ID:	DEFECT000570606	
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: Small frames may be delayed up to one millisecond through the extension tunnel.		
Condition: This may be observed on a 7840, during periods of low throughput, on a compression enabled extension tunnel.		

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:	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 fcippathtest as part of diag POST on BR7800		
Workaround: Disable POST.		

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 won't be able to change mibcapability i.e Action to enable or disable a MIB/TRAP fails.		
Condition: This issue in seen on all platforms with FOS v7.4 and above when the user tries modifying mibcapability.		

Defect ID:	DEFECT000585439	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release: FOS8.0.1		**Technology:** Access Gateway
Symptom: When switch is put in AG mode, the F-port goes into G-port and cannot be recovered		
Condition: This occurs when 3rd party device is sending back to back FLOGI requests before getting FLOGI response for the first FLOGI request.		

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:	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:	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:	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:	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:	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:	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:	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 PS is missing or faulty		
Condition:	On Brocade switches such as Brocade7800 and 5300 where FANS and Power Supplies are separate units and when PS fails with FOS v7.4 or later.		
Workaround:	This problem can be worked around with FV license until switch can be upgraded.		

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 8G 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:	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:	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:	DEFECT000609393		
Technical Severity:	Medium	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:	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:	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:	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:	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:	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:	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:	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:	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:
          - 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:	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:	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:	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) paniced and did not restart on active CP, as a result, 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:	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 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:	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: 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:	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 firmwaredownload to FOS v7.4.1d and FOS v8.0.1x		

Closed with Code Change in Fabric OS v7.4.1d

This section lists the defects with Critical, High and Medium Technical Severity closed with a code change.

Defect ID:	DEFECT000540101		
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Monitoring	
Reported In Release:	FOS7.2.1	**Technology Area:**	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:	DEFECT000563629		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology:** Extension	
Reported In Release:	FOS7.2.1	**Technology Area:**	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:	DEFECT000564450		
Technical Severity:	Medium	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	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:	DEFECT000574230

Technical Severity:	High	Probability: High	
Product: Brocade Fabric OS		Technology: Traffic Management	
Reported In Release:	FOS8.0.1	Technology Area:	Port Bring-up
Symptom: Unexpected switch Panic may be encountered, triggered by memory corruption.			
Condition: This may occur on switches with Eport trunks, when performing slotpoweroff/on, enable/disable of slave ports.			

Defect ID:	DEFECT000574717	
Technical Severity:	High	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS6.4.3	**Technology Area:** Fibre Channel Services
Symptom: Switch software panic encountered due to Out of Memory condition.		
Condition: This may occur only when Admin Domain (AD) is activated and the device in the fabric sends GAPNL query about another device (either remote or local) which is not part of same AD.		
Recovery: Proactively perform hareboot/hafailover when free memory is observed to go low.		

Defect ID:	DEFECT000575899	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.3.1	**Technology Area:** 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:	DEFECT000576355	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.3.1	**Technology Area:** CLI - Command Line Interface
Symptom: After answer "n" to "reboot" CLI, switch is left in disabled state.		
Condition: It happens on BR5481, "reboot" CLI cannot be cancelled.		
Recovery: Use switchenable to enable switch ports back.		

Defect ID:	DEFECT000577234	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.3.1	**Technology Area:** 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 webtool using user whose home LF is 128.		

Defect ID:	DEFECT000581627

Technical Severity:	High	Probability: Medium	
Product:	Brocade Fabric OS	Technology:	Monitoring
Reported In Release:	FOS7.2.1	Technology Area:	Hardware Monitoring
Symptom:	Switch may encounter false alarms for failed blowers and high temperatures, leading to an attempt to initiate switch shutdown.		
Condition:	This may occur if ports with No_Modules (vacant ports) are periodically polled using sfpshow <port#> -f via external script or CLI. This external polling may clash with the periodic internal EM polls and result in misreadings from the blowers.		
Workaround:	If possible avoid periodic external polling that uses CLI command sfpshow <port #> -f. O therwise insert good SFPs in vacant ports.		
Recovery:	Insert good SFPs in vacant ports and/or stop any external SFP polling script (that uses sfpshow <port#> -f) and then re-seat the failed blowers or reboot the switch.		

Defect ID:	DEFECT000581775	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Traffic Management
Reported In Release:	FOS7.4.0	**Technology Area:** FICON
Symptom: Identical Node descriptors observed for two different physical ports.		
Condition: This may occur in a FICON environment, where duplicates node descriptors may be generated in a director with large port-counts.		

Defect ID:	DEFECT000581939	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS8.0.1	**Technology Area:** Fibre Channel Services
Symptom: Observed "termination of mdd" and mdd is restarted without functional impact.		
Condition: It happened while executing the command "logicalgroup" with option "update"		

Defect ID:	DEFECT000586977	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS8.0.1	**Technology Area:** Virtual Fabrics
Symptom: Switch panic occurs while performing any zone transactions (like cfgdisable/cfgenable/setting defzone) when there is an LISL present on the logical switch.		
Condition: Create LISL on a logical switch. After the fabric is up, set def zone access to allaccess/noaccess. Switch panic occurs while performing cfgsave operation.		

Defect ID:	DEFECT000588160	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Extension
Reported In Release:	FOS8.0.1	**Technology Area:** FCIP - Fibre Channel over IP
Symptom: C3-1012 and I/O timeouts occur during Extension Hot Code Load (HCL) processing.		
Condition: Problem can occur during Extension HCL on a 7840 with heavy FCIP traffic through the tunnel(s).		

Defect ID:	DEFECT000589602

Technical Severity:	High	Probability: Low	
Product:	Brocade Fabric OS	Technology: Management	
Reported In Release:	FOS7.4.0	Technology Area:	Virtual Fabrics
Symptom:	Various symptoms after a flooding of Class 2 FICON frame hit switch CPU such as: CP cards cannot initialize FOS or loss of Logical switch configuration.		
Condition:	This may occur in FICON setup where device flood switch with class 2 RNID frames at a high rate.		
Workaround:	Disable ports thatsend switch flooding frames.		
Recovery:	Recreate missing FID after rebooting switch.		

Defect ID:	DEFECT000590865		
Technical Severity:	High	Probability: High	
Product:	Brocade Fabric OS	Technology: Extension	
Reported In Release:	FOS8.0.1	Technology Area:	FCIP - Fibre Channel over IP
Symptom:	For TCP flows, portshow lan-stats --global doesn't display TX ASIS counters properly.		
Condition:	When TCP traffic is sent through an IPEX enabled VE due to TCL's non-terminated functionality, TX ASIS counters are not updated properly.		

Defect ID:	DEFECT000593549	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Extension
Reported In Release:	FOS8.0.1	**Technology Area:** 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:	DEFECT000593653	
Technical Severity:	High	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.2.0	**Technology Area:** CLI - Command Line Interface
Symptom: The portcfgeportcredits 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 portcfgeportcredits.		

Defect ID:	DEFECT000594896	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.3.1	**Technology Area:** 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 happens on switch/director that is configured with NTP service and Real Time Clock (RTC) access is aborted. It's more likely to happen with FOS v7.2.1e, v7.3.1, v7.4.1 and later releases that contains the fix for Defect 501658.		
Workaround: For director, before any reboot, run > /sbin/hwclock RTC_RD_TIME: Bad address ioctl() to /dev/rtc to read the time failed. If it reports above error, perform hafailover and reset CP so recovery is non-directuptive. For switch, please schedule a window for a disruptive POR.		
Recovery: Reseat the impacted / hung CP blade. POR the impacted switch.		

Defect ID:	DEFECT000595452

Technical Severity:	Medium	Probability: Low	
Product:	Brocade Fabric OS	Technology: Extension	
Reported In Release:	FOS8.0.1	Technology Area:	FCIP - Fibre Channel over IP
Symptom:	FICON interface timeout detected messages/IOS005I messages during FCIP HCL		
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:	DEFECT000595584		
Technical Severity:	High	Probability: High	
Product:	Brocade Fabric OS	Technology: Management	
Reported In Release:	FOS8.0.1	Technology Area:	Software Installation & Upgrade
Symptom:	Encountered INSTALL26: ERROR - Cannot get file - SWBD109/version.conf. when executing firmwarecleaninstall.		
Condition:	May be seen during firmwarecleaninstall from v8.0.1 to v7.4.x.		

Defect ID:	DEFECT000595768		
Technical Severity:	High	Probability: High	
Product:	Brocade Fabric OS	Technology: Extension	
Reported In Release:	FOS7.4.1	Technology Area:	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:	DEFECT000596027		
Technical Severity:	High	Probability: Medium	
Product:	Brocade Fabric OS	Technology: Extension	
Reported In Release:	FOS7.4.1	Technology Area:	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:	DEFECT000596220

Technical Severity:	High	Probability: Medium	
Product:	Brocade Fabric OS	Technology:	Extension
Reported In Release:	FOS8.0.1	Technology Area:	FCIP - Fibre Channel over IP
Symptom:	Upon GE port disable or switchdisable, connections are not cleared, as a result buffers are not freed up.		
Condition:	This occurs following GE port disable or switchdisable with IPSec configured tunnels.		

Defect ID:	DEFECT000596508		
Technical Severity:	Medium	Probability: Low	
Product:	Brocade Fabric OS	Technology:	Management
Reported In Release:	FOS7.3.2	Technology Area:	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:	DEFECT000596542		
Technical Severity:	High	Probability: High	
Product:	Brocade Fabric OS	Technology:	Management
Reported In Release:	FOS7.4.1	Technology Area:	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:	DEFECT000597572	
Technical Severity:	High	Probability: Low
Product: Brocade Fabric OS		Technology: Extension
Reported In Release:	FOS7.1.0	Technology Area: 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:	DEFECT000599105	
Technical Severity:	High	Probability: High
Product: Brocade Fabric OS		Technology: Management
Reported In Release:	FOS7.0.2	Technology Area: 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:	DEFECT000600653	
Technical Severity:	Medium	Probability: High
Product: Brocade Fabric OS		Technology: Extension
Reported In Release:	FOS7.3.1	Technology Area: 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:	DEFECT000600982	
Technical Severity:	Medium	Probability: Medium
Product: Brocade Fabric OS		Technology: Management
Reported In Release:	FOS7.3.2	Technology Area: 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:	DEFECT000602240	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Security
Reported In Release:	FOS7.4.0	**Technology Area:** Security Vulnerability
Symptom: Multiple OpenSSL CVEs:CVE-2015-3197, CVE-2016-0701, CVE-2016-0704, CVE-2016-0703, CVE-2016-0702, -2016-0799, CVE-2016-0797, CVE-2016-0798, CVE-2016-0705, CVE-2016-0800 Multiple OpenSSH CVEs: CVE-2016-0777, CVE-2016-0778		
Condition: Contains OpenSSL and OpenSSH Security Advisories.		

Defect ID:	DEFECT000603533	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.3.2	**Technology Area:** 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: Please create a dummy LS if they have deleted any LS before upgrading to new version.		
Recovery: Please create a dummy LS after hitting the issue.		

Defect ID:	DEFECT000603672	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Monitoring
Reported In Release:	FOS8.0.1	**Technology Area:** 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:** Management
Reported In Release:	FOS7.4.1	**Technology Area:** 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:** Extension
Reported In	FOS7.4.1	**Technology** FCIP - Fibre Channel over IP

Release:	Area:
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:	DEFECT000604966		
Technical Severity:	Medium	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Monitoring	
Reported In Release:	FOS7.4.1	**Technology Area:**	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.			

-

Closed with Code Change in Fabric OS v7.4.1c

This section lists the defects with Critical, High and Medium Technical Severity closed with a code change.

Defect ID:	DEFECT000532799	
Technical Severity: Medium	**Probability:** Low	
Product: Brocade Fabric OS	**Technology Group:**	Management
Reported In Release: FOS7.3.0	**Technology:** Management GUI	
Symptom: Webtools fails to launch from browser if HTTPS & fully qualified domain name (FQDN) are used.		
Condition: FQDN names may not work after upgrading to FOS 7.2.x and above.		
Workaround: Use switch IP address instead of fully qualified domain name.		

Defect ID:	DEFECT000537571	
Technical Severity: Medium	**Probability:** Low	
Product: Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release: FOS7.2.0	**Technology:** Hardware Monitoring	
Symptom: CRC errors with good EOF at 4G speed may be encountered when with some SFPs.		
Condition: This may be seen when using 4G LW SFP part number 57-1000027-02.		

Defect ID:	DEFECT000547722	
Technical Severity: Medium	**Probability:** Low	
Product: Brocade Fabric OS	**Technology Group:**	Other
Reported In Release: FOS7.1.2	**Technology:** Other	
Symptom: Configuration keys corresponds to credit recovery feature may not be consistently reflected in configshow.		
Condition: This issue is seen when user changes credit recovery feature configuration.		
Recovery: Only display issue, the feature works as expected.		

Defect ID:	DEFECT000559352	
Technical Severity: Medium	**Probability:** Low	
Product: Brocade Fabric OS	**Technology Group:**	Management
Reported In Release: FOS7.2.0	**Technology:** SNMP - Simple Network Management Protocol	
Symptom: Unlike the display for other SNMP test traps, swDeviceStatus test Trap displays only varbind "swTestString".		
Condition: This behavior is seen on all platforms for swDeviceStatus test trap.		

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:	DEFECT000560880	
Technical Severity: Medium	**Probability:** Low	
Product: Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release: FOS7.3.1	**Technology:** MAPS - Monitoring and Alerting Policy Suite	
Symptom: SNMP traps are received even when the action for the maps rule is "none".		
Condition: This behavior is seen in all platforms with MAPS enabled,when the action specified for maps rule is "NONE".		

Defect ID:	DEFECT000567544	
Technical Severity: High	**Probability:** High	
Product: Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release: FOS8.0.0	**Technology:** D-Port - Diagnostic Port	
Symptom: User may observe D_Port test hang/stuck in progress state.		
Condition: This may be encountered when D_Port test is performed with Q-Logic HBA.		
Recovery: Run "portDportTest --stop <port>" command to stop the test and clear the D_Port configuration.		

Defect ID:	DEFECT000567817	
Technical Severity: Critical	**Probability:** Medium	
Product: Brocade Fabric OS	**Technology Group:**	Management
Reported In Release: FOS7.1.0	**Technology:** Configuration Fundamentals	
Symptom: Firmware upgrade fails on a director with the standby CP remaining in a constant powering up state.		
Condition: This can occur when an Ethernet cable is plugged into the console port, instead of a serial console cable.		

Defect ID:	DEFECT000569309	
Technical Severity: High	**Probability:** Low	
Product: Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release: FOS7.4.0	**Technology:** MAPS - Monitoring and Alerting Policy Suite	
Symptom: MAPS mdd process terminates when running supportsave.		
Condition: This occurs from a race condition that sometimes may cause a NULL pointer access during MAPS data collection performed as part of supportsave.		

Defect ID:	DEFECT000570356

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 DP FFDC after multiple DRAM2 memory pool warnings via XTUN-1008 messages	
Condition: After running WAN tool to test an FCIP Circuit, DP events caused complete depletion of the DRAM2 pool on a DP.	
Workaround: Insure that all WAN tool tests are deleted after running tests.	

Defect ID: DEFECT000571927	
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: Disruptive reboot of the FCIP DPs on BR7840 during Hot Code Load (HCL).	
Condition: When HCL is attempted after one or more tunnel bounces, the FC Flush logic can examine an internal credit counter and assume that FC flush failed.	

Defect ID: DEFECT000574013	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.3.1	Technology: Software Installation & Upgrade
Symptom: The command 'firmwarecommit -f' may need to be run manually on the standby CP to recover from a firmwaredownload failure after a firmwaredownload timeout.	
Condition: In a rare situation, following a dual CP firmwaredownload timeout, the expected recovery of the standby CP may fail due to ping failure triggered by race condition.	
Workaround: Manually invoke firmwarecommit on the standby CP where firmwaredownload timed out.	
Recovery: Manually invoke firmwarecommit on the standby CP where firmwaredownload timed out.	

Defect ID: DEFECT000574862	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.2.1	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: Raslog message severity is not synced between active and standby.	
Condition: This issue is seen when user changes the severity of raslog message using rasadmin command.	

Defect ID:	DEFECT000574943	
Technical Severity: High		**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:**	Extension
Reported In Release: FOS7.2.1	**Technology:** FCIP - Fibre Channel over IP	
Symptom:	Host Discovery issues after FOS upgrade in an FCR backbone to edge configuration. Edge to edge configurations are not impacted.	
Condition:	Problem can occur in a multiple VEX port configuration after FOS upgrade from pre-FOS 7.2.0 to newer FOS level. There needs to be more than 1 VEX port in the configuration.	

Defect ID:	DEFECT000576240	
Technical Severity: Low		**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:**	Security
Reported In Release: FOS8.0.1	**Technology:** FIPS - Federal Information Processing Standards	
Symptom:	CVE-2015-7575 TLS 1.2 Transcipt Collision attacks against MD5 in key exchange protocol (SLOTH)	
Condition:	Only cryptographic software using TLS 1.2 is affected.This man-in-the-middle attacker able to force a TLS connection to use the MD5 hash function could use this flaw to conduct collision attacks to impersonate a TLS server or an authenticated TLS client	
Recovery:	Due to these attacks, most cryptographic software was patched to stop accepting MD5 certificates	

Defect ID:	DEFECT000577166	
Technical Severity: High		**Probability :** High
Product: Brocade Fabric OS		**Technology Group:** Traffic Management
Reported In Release: FOS7.4.1		**Technology :** Port Bring Up
Symptom:	F_Ports went into In_sync state or route error triggered on Eport trunk causing frame drop during a firmware upgrade.	
Condition:	This may be seen if media validation check failed on ports during HA. SFP media validation failure may be triggered by an insertion of a SFP while the port was disabled and the switch had been upgraded to FOS v7.4.1, 7.4.1a or 7.4.1b from FOS v7.0.x or earlier through non-disruptive firmware upgrade path.	
Workaround :	Run sfpshow -f before upgrade from FOS v7.0.x releases up to FOS v7.4.1,7.4.1a and 7.4.1b or upgrade to FOS v7.4.1c with the fix.	
Recovery:	For F-port, bounce the port to recover. For trunk ports, disable ports in the trunk one at a time and then enable all ports.	

Defect ID:	DEFECT000577864	
Technical Severity:	High	**Probability :** High
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release:	FOS7.4.0_CBN	**Technology :** NPIV - N-Port ID Virtualization
Symptom:	Multiple N-Port failovers on AG switch cause LUNs to disappear.	
Condition:	It happens when Fports come online while there is no N-port online in the Port Group/switch, AG disables the port due to no N-ports, and later, when an N-port comes on line, N-port failback brings Fports back online. If Fports send ABTS at this time to abort the previous login, login entries are cleared from the switch DB.	

Defect ID:	DEFECT000578927	
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:	BR7840 encountering [C3-1012], 5/3, CHASSIS, WARNING,, S0,P-1(8): Link Timeout on internal port with lost credits.	
Condition:	When running FCIP traffic over the FCIP Tunnel - appears to be related to bursty nature of the I/O over the tunnel.	

Defect ID:	DEFECT000580882

Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	**Technology Group:**	Security
Reported In Release:	FOS7.3.1	**Technology:**	Security Vulnerability
Symptom:	CVE-2015-3194: OpenSSL Certificate verify crash with missing PSS parameter.		
Condition:	Vulnerability scan reports possible presence of CVE-2015-3193, CVE-2015-3194, CVE-2015-3195, CVE-2015-3196, CVE-2015-1794, although FOS is exposed to CVF-2015-3194 only.		

Defect ID:	DEFECT000581598		
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology Group:**	Extension
Reported In Release:	FOS7.4.0	**Technology:** FCIP - Fibre Channel over IP	
Symptom: IOS000I - CHANNEL PROTOCOL ERROR on FICON emulated tape device displayed on device console.			
Condition: FCIP Tunnel with FICON Tape Pipelining enabled when a 3590 (or tape device) replies to a generated No-Op command with Command Retry Status.			
Workaround: Disable FICON Tape Pipelining on the tunnel or insure that there are more devices online between the LPAR and the controller than there are active tape jobs. If there is an idle tape device, the controller will present the attention on that device instead of an active device and will avoid the issue.			

Defect ID:	DEFECT000581775		
Technical Severity:	Medium	**Probability:** High	
Product: Brocade Fabric OS		**Technology Group:**	Traffic Management
Reported In Release:	FOS7.4.0	**Technology:** FICON	
Symptom: Identical Node descriptors observed for two different physical ports.			
Condition: This may occur in a FICON environment, where duplicates node descriptors may be generated in a director with large port-counts.			

Defect ID:	DEFECT000582900		
Technical Severity:	Medium	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS7.2.1_HIL	**Technology:** Access Gateway	
Symptom: The user may encounter mismatch in AG Port Group configuration, where N-ports remain part of user defined Port Group instead of being associated with the default Port Group.			
Condition: This may occur when Load Balancing Policy is enabled for the Port Group and all N-ports are part of the same user defined Port Group.			
Workaround: User can Manually delete N-ports from the user defined Port Group using "ag --pgdel" CLI.			

Defect ID:	DEFECT000584796		
Technical	High	**Probability:** High	

Severity:	
Product: Brocade Fabric OS	**Technology Group:** Extension
Reported In Release: FOS7.3.1	**Technology:** FCIP - Fibre Channel over IP
Symptom: Extension tunnels on the 7840 may go down and stay in an "in-progress" state.	
Condition: This condition can occur on an extension tunnel whose IP addresses receive an extremely large amount of ICMP messages other than Echo Request(type 8), Echo Reply(type 0), or Time Exceeded(type 11).	
Recovery: A reboot is necessary to clear this condition.	

Defect ID: DEFECT000585776	
Technical Severity: High	**Probability:** High
Product: Brocade Fabric OS	**Technology Group:** Extension
Reported In Release: FOS8.0.1	**Technology:** FCIP Tunnel Management
Symptom: ESM-1101 error message seen with 'Unable to allocate memory' condition. Can also sometimes result in a esmd panic.	
Condition: Issuing 'portcfgshow ipif|iproute|fciptunnel|fcipcircuit' or other extension related 'portcfgshow' commands can cause the error.	

Defect ID:	DEFECT000586412	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Extension
Reported In Release:	FOS8.0.1	**Technology:** Extended Fabrics
Symptom: DPs on BR7840 switch panic and recovery while disabling compression.		
Condition: After modifying the FCIP Tunnel to not have software compression enabled (when disabling "Deflate" or "Aggr-Deflate" on an active FCIP Tunnel.		

Defect ID:	DEFECT000586788	
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: 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:	DEFECT000588368	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Traffic Management
Reported In Release:	FOS7.4.0	**Technology:** Port Bring-up
Symptom: Third party tape devices may have problems coming online.		
Condition: Port will experience error when connecting certain types of 3rd party tape devices with Brocade 16G platforms.		
Workaround: Use portcfgnondfe CLI to enable optimal mode 3rd party tapes.		

Defect ID:	DEFECT000588485	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology Group:** Traffic Management
Reported In Release:	FOS7.2.1	**Technology:** Port Bring-up
Symptom: Switch in AG mode reboots.		

.	
Condition: This may occur when host is rebooted and switch did not discard the ABTS frame for the FLOGI while N-port is undefined.	

Defect ID: DEFECT000588834	
Technical Severity: High	**Probability:** High
Product: Brocade Fabric OS	**Technology Group:** Extension
Reported In Release: FOS7.4.0	**Technology:** Extended Fabrics
Symptom: Continuous DP panics on BR7840 and loss of ip interface configurations.	
Condition: When there is Ethernet jumbo frames (non-IP) coming on the LAN/WAN ingress paths.	

Defect ID: DEFECT000589265	
Technical Severity: Medium	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Extension
Reported In Release: FOS8.0.1	**Technology:** FCIP Tunnel Management
Symptom: DP panic during Hot Code Load (HCL) failover/failback with non-emulated FC traffic and HCL failures.	
Condition: Multiple LS with FCIP tunnels whose VE share the same VC and use different routing policies during FCIP HCL processing.	

Defect ID: DEFECT000589472	
Technical Severity: Medium	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Security
Reported In Release: FOS7.4.0	**Technology:** Security Policies
Symptom: CLI ipfilter disallows configuring a port value greater than 1024.	
Condition: This occurs when creating an ipfilter policy rule with port value greater than 1024. This is not permitted and results in an error message: Invalid port number(range) for IP filter policy rule.	

Defect ID: DEFECT000590383	
Technical Severity: Medium	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Security
Reported In FOS7.3.1	**Technology:** Fabric Authentication

Release:	
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:	DEFECT000590415		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.2.1	**Technology:**	Access Gateway
Symptom:	Discrepancy is seen between the outputs of CLI commands "ag --show" and "ag --mapshow" on AG switch.		
Condition:	This may occur on AG switches in no policy mode. When the F- port comes online, the mapped N-port is not updated as the current N-port for the F-ports.		

Defect ID:	DEFECT000590745		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS8.0.1	**Technology:**	Flow Vision
Symptom:	Flow Vision daemon (npd) may crash on a switch during firmwaredownload.		
Condition:	User may encounter this behavior only on an Analytics Monitoring Platform enabled fabric during a switch disable/enable or reboot or hafailover operations.		
Recovery:	Deactivate sys_analytics_vtap flow and restart npd daemon.		

Defect ID:	DEFECT000591754		
Technical Severity:	High	**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:	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 portnames 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 portname. The configuration database is not properly synced in such situations.		
Workaround: Reconfigure all ports (that have a carriage return in the portname) to remove the carriage returns from the portnames.		
Recovery: Reconfigure missing portnames, taking proper caution not to insert any carriage return in the portnames.		

Defect ID:	DEFECT000592702	
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: Limited tunnel performance after completing Extension HCL – Tunnel(s) is/are in flow control.		
Condition: After completing a firmware download to a new FOS release with Extension HCL enabled.		
Workaround: Perform disruptive firmware download.		
Recovery: Disable and re-enable the VE ports/FCIP Tunnels.		

Defect ID:	DEFECT000593988	
Technical Severity:	High	**Probability:** Low
Product: Brocade Fabric OS		**Technology Group:** Traffic Management
Reported In Release: FOS7.3.1		**Technology:** ISL - Inter-Switch Linking
Symptom: switch panic may occur, resulting from secd termination		
Condition: This may be encountered when a remote switch is rebooted or a new remote switch is connected to fabric.		

Defect ID:	DEFECT000595186	
Technical	High	**Probability:** Low

Severity:	
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 of 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.	
Workaround: Hafailure.	
Recovery: hafailure.	

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 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	

Closed with Code Change in Fabric OS v7.4.1b

This section lists the defects with Critical, High and Medium Technical Severity closed with a code change.

Defect ID:	DEFECT000553134		
Technical Severity:	Low	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS7.4.0	**Technology:** CLI - Command Line Interface	
Symptom:	Diagnostic run may fail with raslog "[BLZ-5040], 0, CHASSIS, ERROR, Brocade 7840, S0,P8(105) [OID 0x43028829]: Sending ipp port fault for reason 1"		
Condition: When running diagnostics on BR7840.			

Defect ID:	DEFECT000554393		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Distance
Reported In Release:	FOS7.4.0	**Technology:** FCIP - Fibre Channel over IP	
Symptom:	Data Processor (DP) Panic'd on FCIP tunnel modify or FCIP circuit bounce causing an interruption in traffic.		
Condition: The FCIP tunnel and/or circuit is bouncing and it has IPSec enabled on it.			
Workaround: Disable IPSec on the FCIP tunnel.			

Defect ID:	DEFECT000573629		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS7.4.1	**Technology:** Configuration Fundamentals	
Symptom:	IP configuration from Chassis Management Module (SVP) will fail the first time after power-cycle.		
Condition: Issue may be seen on embedded platforms.			
Recovery: Re-do the IP configuration from SVP. It will succeed after the first failure.			

Defect ID:	DEFECT000575101		
Technical Severity:	High	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology Group:**	Traffic Management
Reported In	FOS8.0.0	**Technology:** FICON	

Release:	
Symptom: Encountered unexpected cold reboot of the system triggered by kernel panic.	
Condition: This is seen in FICON environment during device power on and off stress test.	

Defect ID: DEFECT000577245	
Technical Severity: Medium	**Probability:** Low
Product: Brocade Fabric OS	**Technology Group:** Management
Reported In Release: FOS7.4.0	**Technology:** Software Installation & Upgrade
Symptom: After firmware upgrade, the ip address of management interface may be not set up correctly.	
Condition: Enabled dhcp for management interface before firmware upgrade. The problem only happens on firmware upgrade to FOS v7.4.x	
Recovery: Reboot switch after firmwaredownload.	

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 switch or chassis in a FICON environment.		

Defect ID:	DEFECT000580096	
Technical Severity:	High	**Probability:** Low
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release:	FOS7.4.0	**Technology:** Configuration Fundamentals
Symptom: 16G director has kernel panic while gather flow statistics.		
Condition: It happens after a hafailover on a 16G director with network patroller flow configured.		

Defect ID:	DEFECT000580863	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Traffic Management
Reported In Release:	FOS7.3.1	**Technology:** ISL - Inter-Switch Linking
Symptom: After hafailover, hosts may lose paths to storage devices in the fabric.		
Condition: For this issue to occur, the following conditions must exist: 1. Hosts are connected to a logical switch that has enabled XISL. 2. Storage devices are reachable across a logical ISL -- i.e. the ISLs are in the base switch. 3. The trunk master of a base switch ISL trunk (with two or more trunked ports) bounces. 4. hafailover or hareboot occurs -- either manually or as part of non-disruptive firmwaredownload.		
Recovery: There are two possible recovery scenarios: 1. Bounce all trunk ports -- i.e. Bring all ports in the trunk offline and then bring them all back online. …or… 2. hafailover		

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: An hareboot or hafailover on a 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:	DEFECT000584234	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Monitoring
Reported In Release: FOS7.4.1		**Technology:** Analytics Monitoring
Symptom: Switch may report raslog MAPS-1003 alert, indicating greater than expected IOPs per second even though the IOP rate is below threshold.		
Condition: This condition may occur if the single ASIC is overloaded with traffic and AE port is on the same ASIC.		

Defect ID:	DEFECT000585430	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release: FOS7.4.1		**Technology:** High Availability
Symptom: Switch may report HA not in sync, along with raslog FSS-1009 2016/01/22-10:05:25, [FSS-1009], , | FFDC | , ERROR, , FSS Error: fcsw3-swc: sync-failure: -6		
Condition: This may happen during device offline event on a busy system.		
Recovery: Reboot standby CP.		

Closed with Code Change in Fabric OS v7.4.1a

This section lists the defects with Critical, High and Medium Technical Severity closed with a code change.

Defect ID:	DEFECT000495229	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release: FOS7.2.1_HIL		**Technology:** Software Installation & Upgrade
Symptom: After a non-disruptive firmware download, portstatsshow may display increased instances of fec_uncor_detected errors on front end port.		
Condition: This may be encountered only on embedded platforms.		

Defect ID:	DEFECT000523383	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Monitoring
Reported In Release: FOS7.2.1		**Technology:** Bottleneck Detection (legacy)
Symptom: When there is real latency device in fabric and triggers frame timeout, latency warning AN-1003 reports affected delay, slowdown and pct secs as 0. For example: [AN-1003], 2/2, FID 128, WARNING, , Latency bottleneck on F-Port 9 0.00 pct. of 30 secs affected Avg. delay 0 us. Avg. slowdown 0., traf.c, line: 4457, comp:trafd,		
Condition: In a frame timeout situation, a race condition may lead Bottleneck monitor to read counters before lower layer driver has populated the data.		
Recovery: It will recover by next data read cycle. Ignore the occasional 0 counters.		

Defect ID:	DEFECT000523863	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology Group:** Traffic Management
Reported In Release: FOS7.2.0		**Technology:** FICON
Symptom: Channel Detected Errors, may see an error indicating a protocol timeout, the CUP continues to run.		
Condition: System Reset received by CUP.		
Recovery: If the CUP stops communicating, vary CUP Path back online (vary offline/online).		

Defect ID:	DEFECT000524532

Technical Severity:	Medium	Probability: Low	
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.2.1	Technology: Bottleneck Detection (legacy)	
Symptom: Unwarranted Bottleneck Detection alerts may be encountered on a switch.			
Condition: This issue stems from a failing API leading to incorrect computations. When applying consistent latency into the switch, the AN-1003 messages for the specific F_Port show very low affected percentages with a slowdown value of 0.			

Defect ID:	DEFECT000539342		
Technical Severity:	High	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Monitoring
Reported In Release:	FOS7.4.0	**Technology:** MAPS - Monitoring and Alerting Policy Suite	
Symptom: System may encounter mdd process killed by Software Watchdog and show console message "Detected termination of process mdd0".			
Condition: These may be seen after a reboot, when MAPS is up and polls for the FC routing statistics from the FOS services, and encounters slow response.			
Recovery: When the problems happens, MAPS will restart and the system should come up normally.			

Defect ID:	DEFECT000544678		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS7.3.0	**Technology:** Configuration Fundamentals	
Symptom: The warning message for supportInfoClear CLI command needs more clarity and explicitness to better assist the user of this command.			
Condition: This is a suggested enhancement to the warning message of supportInfoClear CLI command only.			

Defect ID:	DEFECT000561932		
Technical Severity:	Medium	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS7.4.0_AMP	**Technology:** Configuration Fundamentals	
Symptom: portpeerbeacon CLI command will not permit enabling portpeerbeacon for more than 1 port in a chassis.			
Condition: This issue is specific to portpeerbeacon CLI command only.			

Defect ID:	DEFECT000563416		
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology Group:**	Traffic Management
Reported In Release:	FOS8.0.0	**Technology:** FICON	
Symptom: Observed Kernal panic (Unable to handle kernal paging request) during single			

Channel running Local Control Unit Port (CUP).:	
Condition: This is encountered on a switch that is enabled for FICON (FMS-enabled). This occurs due to an attempt to de-reference IU memory that has already been previously freed up.	
Recovery: No recovery is necessary since the switch recovers itself after rebooting from the panic.	

Defect ID: DEFECT000563636			
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology Group:**	Security
Reported In Release:	FOS8.0.0	**Technology:** Zoning	
Symptom: Analytics-F port (AF Port) is not filtered in portCAM and Port_RSCN is sent to zoned end devices, for AF port state changes.			
Condition: This is seen when the remote AF-port is disabled, resulting in the local device unexpectedly receiving Offline RSCN for the AF-port.			

Defect ID:	DEFECT000563638		
Technical Severity:	High	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology Group:**	Distance
Reported In Release:	FOS7.4.0	**Technology:** FCIP - Fibre Channel over IP	
Symptom: Observed FICON CHPID IFCCs and job failures.			
Condition: When FICON Tape Pipelining needs to handle an abnormal sequence such as Attention in REPOSITION_PENDING_STATE.			

Defect ID:	DEFECT000564261		
Technical Severity:	Low	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS7.4.0	**Technology:** Configuration Fundamentals	
Symptom: The board revision in switchshow changes from 77.3 to 77.0 following an upgrade of DCX-4S to v7.4.x.			
Condition: This is a switchshow display issue with board revision only for DCX-4S in v7.4.x			

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:	DEFECT000565660		
Technical Severity:	Low	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS7.4.1	**Technology:** Configuration Fundamentals	
Symptom: Changing configuration on management ports using the CLI command ipaddrset may lead to the user being logged out of the current ssh session.			
Condition: This issue is specific to the ipaddrset CLI command only.			

Defect ID:	DEFECT000567099		
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology Group:**	Management
Reported In Release:	FOS8.0.1	**Technology:** Fibre Channel Services	
Symptom: Software VERIFYs with pattern "lgdb->port[port_dst] == NULL" may be seen during HA failover.			
Condition: These VERIFYs do not occur under normal HA conditions. This may happen under rare error conditions during HA recovery and it does not affect the regular functionality of the switch.			

Defect ID:	DEFECT000567324		
Technical Severity:	Medium	**Probability:** High	
Product: Brocade Fabric OS		**Technology Group:**	Extension
Reported In Release:	FOS8.0.1	**Technology:** WAN Performance Analysis Tools	
Symptom: The WAN Tool session reports higher than expected round trip times.			
Condition: This occurs when the WAN Tool session is configured with jumbo frames and has a committed rate equal to the physical interface speed.			
Workaround: Reconfigure the WAN Tool session's committed rate to be less than the physical interface speed.			

Defect ID:	DEFECT000567540	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release:	FOS8.0.1	**Technology:** Configuration Fundamentals
Symptom: System may encounter Raslogs ERCP-1000, RAS-1000 during firmwaredownload. For example: "[ERCP-1000], 7, FFDC | CHASSIS, CRITICAL, Skybolt214, Multiple DDR ECC errors are detected and the system will reload automatically" followed by, "[RAS-1001], 8, CHASSIS, INFO, Skybolt214, First failure data capture (FFDC) event occurred"		
Condition: This is seen only on Brocade 7840 switch following firmwaredownload		

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 on a Brocade director switch, HA Sync may be lost .		
Condition: The issue is seen only after an upgrade to FOS version v7.4.x from FOS versions v7.3.x or lower under the following conditions: 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:	DEFECT000568377	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology Group:** Management
Reported In Release:	FOS7.4.0	**Technology:** Software Installation & Upgrade
Symptom: firmwaresync fails due to timeout when standby CP is running FOS 7.2 or older and active CP is running FOS 7.4.		
Condition: Occurs when active CP is running FOS 7.4 and standby CP is running FOS 7.2 or older, and when switch cpu is busy with snmp, BNA polling.		
Workaround: Perform firmwaresync again after 10 minutes.		
Recovery: Times out after 10 minutes, then firmware sync should pass.		

Defect ID:	DEFECT000568423		
Technical Severity:	High	**Probability:** High	
Product:	Brocade Fabric OS	**Technology Group:**	Distance
Reported In Release:	FOS7.2.1	**Technology:**	FCIP - Fibre Channel over IP
Symptom:	Intermittent I/O Failures through an 7800/FX8024 or 7840 FCIP Tunnel due to processing an Extended Link Services PDISC (Discover N_Port Service Parameters) Request.		
Condition:	When processing a received ELS-PDISC on a FCIP non-emulating Tunnel.		

Defect ID:	DEFECT000569678		
Technical Severity:	Medium	**Probability:** Medium	
Product:	Brocade Fabric OS	**Technology Group:**	Monitoring
Reported In Release:	FOS7.2.1	**Technology:**	Hardware Monitoring
Symptom:	Software Fault:Kernel Panic - Detected multiple termination of process emd.		
Condition:	This occurs when polling scripts send large amount of portshow commands to the emd process in a short burst of time.		
Workaround:	Modify the scripts to space out such polling bursts over a larger period of time, use port range in portshow commands rather than back to back consecutive polls of individual ports.		

Defect ID:	DEFECT000570370		
Technical Severity:	High	**Probability:** Low	
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS8.0.0	**Technology:**	Configuration Fundamentals
Symptom:	First Failure Detection Capture (FFDC) might be seen after D-port test.		
Condition:	FFDC seen after a D-port test is ran on BR7840 which may cause memory corruption. The symptoms might be seen much later after the D-port test. There is no impact to data frames.		

Defect ID:	DEFECT000572790		
Technical Severity:	High	**Probability:** High	
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In	FOS7.4.0	**Technology:**	Inband Management

Release:	
Symptom: VPD version 2.05 and EHCM-L3 Capability bits are not set for Brocade 6547 switch and consequently not shown in vpd_show command.	
Condition: This is seen only on Brocade 6547.	

Defect ID:	DEFECT000574562		
Technical Severity:	High	**Probability:** High	
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS7.3.1	**Technology:** Port Bring-up	
Symptom: Some F ports may be fenced with error message " FEC TTS is only supported on F_Port".			
Condition: This may be encountered when a CEC has a POR.			

Defect ID:	DEFECT000576282		
Technical Severity:	High	**Probability:** Medium	
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.1	**Technology:** Fibre Channel Services	
Symptom: Brocade switches hareboot due to Out of Memory (OOM) condition.			
Condition: This is seen only on Brocade non-director switches (except Brocade BES, 7800 and 7840) running FOS versions v7.2.1f, v7.3.1c or v7.4.1. This occurs due to OOM condition from a memory leak during the periodic polling of digital diagnostic monitoring capable SFPs. Directors are not impacted.			
Workaround: Monitor memory availability before performing any memory intensive operations such as supportsave and perform hareboot as necessary. The switch does attempt autorecoery via hareboot upon hitting a low memory threshold to recover f rom this condition without impacting traffic.			
Recovery: No explicit recovery is required as the switch attempts a non disruptive autorecovery from the memory loss, via hareboot, upon hitting a low memory threshold. However performing certain operations such as supportsave while the system is in low memory state may lead to this Out of Memory Panic of the switch and impact traffic.			

Defect ID:	DEFECT000576404		
Technical Severity:	High	**Probability:** High	
Product:	Brocade Fabric OS	**Technology Group:**	Security
Reported In Release:	FOS7.4.0	**Technology:** Security Policies	
Symptom: passwddefault CLI command should be for use by root users only. It is currently			

permitted for admin user.	
Condition: This is encountered with passwddefault CLI command.	

Defect ID:	DEFECT000576960		
Technical Severity:	Medium	**Probability:** High	
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.4.0	**Technology:** Configuration Fundamentals	
Symptom:	The Restore Factory Defaults command may fail midway and certain features like zoning config may not be set to default values.		
Condition:	This may be encountered when attempting to restore factory default configuration.		

Defect ID:	DEFECT000577183		
Technical Severity:	High	**Probability:** High	
Product:	Brocade Fabric OS	**Technology Group:**	Management
Reported In Release:	FOS7.3.0	**Technology:** Software Installation & Upgrade	
Symptom:	BR5432-24 fails firmware upgrade from FOS7.3.0c to FOS7.4.1 leading to a Kernel panic from - Oops: kernel bad area, sig: 11		
Condition:	This issue is specific to BR5432-24 when upgrading from FOS7.3.0c to FOS7.4.1.		

Defect ID:	DEFECT000578360		
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:	IPSec enabled extension tunnels on Brocade 7840 will not establish when utilizing VLAN tagged IP interfaces.		
Condition:	This is encountered when the Brocade 7840 pair have an IPSec enabled extension tunnel utilizing a VLAN tagged IP interface.		
Workaround:	Disable IPSec on the extension tunnel, or utilize an untagged IP interface.		

Defect ID:	DEFECT000578406		
Technical Severity:	Critical	**Probability:** Low	
Product:	Brocade Fabric OS	**Technology Group:**	Traffic Management
Reported In Release:	FOS7.4.1	**Technology:** Fibre Channel Routing	
Symptom:	Host is unable to access storage after the host reboots following an upgrade to FOS7.4.1		
Condition:	This occurs after a non-disruptive upgrade to FOS7.4.1 with 8G switches under the		

following conditions: - The switch has two equal-bandwidth links/trunks to another switch. - An F-port goes offline and then back online after upgrade. - The device on that F-port will not be able to regain access to other devices across the two equal-bandwidth links/trunks.	
Workaround: Avoid two qual-bandwidth links/trunks via adding an ISL to avoid the issue.	
Recovery: Bounce one E-port in a two-path. Even if there are trunks, only one E-port in one trunk needs to be bounced.	

Defect ID:	DEFECT000580719		
Technical Severity:	High	**Probability:** Low	
Product: Brocade Fabric OS		**Technology Group:**	Traffic Management
Reported In Release:	FOS7.4.0_AMP	**Technology:** Fibre Channel Routing	
Symptom: Adding AMP to fabric caused device to loss connectivity.			
Condition: After upgrade from FOS v7.3.x to v7.4.0b, with existing F/E port on an ASIC chip, enable AE port on the same chip may cause routing problems in the switch.			
Recovery: Reboot switch to recover.			

Closed with Code Change in Fabric OS v7.4.1

This section lists the defects with Critical, High and Medium Technical Severity closed with a code change.

Defect ID:	DEFECT000470033		
Technical Severity:	Medium	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Other	
Reported In Release:	FOS7.1.1	**Technology Area:**	Other
Symptom: In switchshow output the status field is not properly aligned for the LISL ports display entries (where it is shifted slightly to the right).			
Condition: Cosmetic issue in switchshow display when LISL ports are present.			

Defect ID:	DEFECT000471996		
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Monitoring	
Reported In Release:	FOS7.0.2	**Technology Area:**	Hardware Monitoring
Symptom: During POST on reboot, systemverification, or running portloopbacktest command, the portloopback test could occasionally fail with errors of "MEM init failed", "Timeout waiting for packet", or it might trigger a silent reboot or panic due to			

"machine check, sig: 7".	
Condition: This issue will be seen only on 16G switches. It will not be seen on directors.	
Workaround: To avoid loopback test failures, use small values such as 100 for -nframes option with more iterations.	

Defect ID:	DEFECT000511742		
Technical Severity:	High	**Probability:** Low	
Product:	Brocade Fabric OS	**Technology:** Security	
Reported In Release:	FOS7.3.0	**Technology Area:**	Encryption
Symptom: Under very rare conditions, switch goes to faulty state during firmwaredownload.			
Condition: Due to Ethernet PHY connection issues, link between Control plane and Datapath plane does not come up.			
Recovery: Power cycle the switch to recover from the faulty state.			

Defect ID:	DEFECT000514387		
Technical Severity:	High	**Probability:** Low	
Product:	Brocade Fabric OS	**Technology:** Other	
Reported In Release:	FOS7.3.0	**Technology Area:**	Other
Symptom: Assert encountered during systemverification test on 16G chassis.			
Condition: This is a very rare occurrence where assert occurs during systemverification test due to a race condition. This does not occur under normal circumstances.			

Defect ID:	DEFECT000515289		
Technical Severity:	Medium	**Probability:** Low	
Product:	Brocade Fabric OS	**Technology:** Monitoring	
Reported In Release:	FOS7.1.2	**Technology Area:**	MAPS - Monitoring and Alerting Policy Suite
Symptom: IPfilter policies not enforced on standby CP, until after hafailover, and may be enforced on IPFC address on VF.			
Condition: This (bypassing IPfilter policies enforcement) is encountered on standby CP.			

Defect ID:	DEFECT000516611		
Technical Severity:	Medium	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Monitoring	
Reported In Release:	FOS7.1.2	**Technology Area:**	RAS - Readiness, Availability and Serviceability
Symptom: audit.cfg.class key is always not present in config files after upgrading to 712a.			
Condition: Issue is seen following warm recovery such as a firmware upgrade.			
Workaround: Reboot will write the key back to config file.			
Recovery: Please configure any one class using auditcfg command.			

Defect ID:	DEFECT000535167		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology:** Other	
Reported In Release:	FOS7.4.0	**Technology Area:**	Other
Symptom: The portcfglport command is permitted to run against internal ports on embedded switch such as BR5470.			
Condition: This happens if internal port number is provided to portcfglport CLI command			

Defect ID:	DEFECT000538917		
Technical Severity:	Medium	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	Fibre Channel Services
Symptom: The Fibre Channel specification (FC-FS-3) pertaining to Read Diagnostic Parameters (RDP) has been updated with new descriptor codes and descriptor flags. This renders current implementation incompatible. Device will not get properly formatted RDP response.			
Condition: This happens in a fabric with device capable of RDP and running FOS v7.3.0 or above.			
Workaround: Disable device port capable of RDP.			

Defect ID:	DEFECT000539134		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology:** Traffic Management	
Reported In Release:	FOS7.1.1	**Technology Area:**	Fibre Channel Routing
Symptom: When observing porterrshow 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: DEFECT000539584	
Technical Severity: High	**Probability:** Low
Product: Brocade Fabric OS	**Technology:** Monitoring
Reported In Release: FOS7.4.0	**Technology Area:** Hardware Monitoring
Symptom: 2KM QSFP ICL ports may see link errors such as CRC and FEC errors. The link errors may result in credit or frame loss and trigger link reset.	
Condition: Errors may be seen after any conditions that causes the port to be toggled, such as a portdisable or switchdisable.	
Recovery: Clear the stats. Toggle the port and check for link errors.	

Defect ID:	DEFECT000540971	
Technical Severity:	Low	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Monitoring
Reported In Release:	FOS7.2.1	**Technology Area:** 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:	DEFECT000541932	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Other
Reported In Release:	FOS7.4.0	**Technology Area:** Other
Symptom: Port bottleneck status is not displayed in the BNA interface.		
Condition: It happens when a port experiences IO_FRAME_LOSS, IO_PERF_IMPACT with advanced monitoring FPI feature turned on.		

Defect ID:	DEFECT000542995	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.2.1	**Technology Area:** Access Gateway
Symptom: Customer encounters a panic when enabling access gateway through Web Tools and then running commands through the CLI subsequently.		
Condition: Enable AG mode in the switch through Web Tools.		
Recovery: Auto-recovery after panic dump.		

Defect ID:	DEFECT000543441	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.4.0	**Technology Area:** SNMP - Simple Network Management Protocol
Symptom: Customer would not be able to use SCP and SFTP Protocols for Firmwaredownload and Supportsave in SNMP Interface. The support is only provided for ftp://ftp./		
Condition: The error will be returned when SET operation is tried out using SCP/SFTP Protocols.		

Defect ID:	DEFECT000546095

Technical Severity:	Medium	Probability: Low	
Product:	Brocade Fabric OS	Technology: Management	
Reported In Release:	FOS7.2.0	Technology Area:	Virtual Fabrics
Symptom: Switch reboot occurred during simultaneous invocation of lfcfg command.			
Condition: Occurs when lfcfg is invoked simultaneously by different users.			
Workaround: Refrain from invoking lfcfg command simultaneously.			

Defect ID:	DEFECT000546101		
Technical Severity:	High	Probability: Low	
Product:	Brocade Fabric OS	Technology: Security	
Reported In Release:	FOS7.4.0	Technology Area:	Encryption
Symptom: FFDC is generated in Blade processor.			
Condition: This is seen in encryption environment (BES/FS8-18), when BLS/ELS frame gets corrupted and is redirected to Blade Processor.			

Defect ID:	DEFECT000546417	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.3.1	**Technology Area:** SNMP - Simple Network Management Protocol
Symptom: After upgrade to FOS 7.3.1, SNMP traps would not be seen in BNA master log.		
Condition: If switch is configured with IPFC address and if we change IP address of a switch, the traps are sent using IPFC address instead of chassis/switch IP address.		
Recovery: CP failover after both CPs migrated to new firmware or after IP address change.		

Defect ID:	DEFECT000546724	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Traffic Management
Reported In Release:	FOS7.4.0	**Technology Area:** FICON
Symptom: Observed " -- FICU_DGB_MSG_001(D) -- Function - ficu_api_deliver_msg_from_remote_CUP() FICU Error RC(-14)" on the console.		
Condition: Normal switch operation, the message is seen when the IPC system is unable to deliver an IPC message to FICUD.		
Recovery: No recovery necessary. No loss of functionality, it is an informational non-essential message		

Defect ID:	DEFECT000546994	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Other
Reported In Release:	FOS7.3.1	**Technology Area:** Other
Symptom: Supportsave initiated from BNA fails, using same credentials from CLI, supportsave works		
Condition: This would happen only when special character is used		
Workaround: Configuring BNA FTP password with no special character.		

Defect ID:	DEFECT000547349	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Other
Reported In Release:	FOS7.4.0	**Technology Area:** Other
Symptom: Powering on a slot which had quarantined port doesn't result in the port getting moved to quarantine state, until an hafailover is done		

Condition:	Powering on the slot which has quarantined port
Workaround:	Remove ports from quarantined list before slotpoweroff using "sddquarantine -- clear <slot/port>"

Defect ID:	DEFECT000547759		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology:	Security
Reported In Release:	FOS7.1.0	Technology Area:	Security Vulnerability
Symptom:	Customer was unable login with RADIUS user to switch after changed password expiration period by "passwdcfg --set -maxpasswordage 90"		
Condition:	When admin (local) is expired , remote users(radius) with admin privileges are not allowed to login as switch will try to authenticate the remote users based on the credentials available in local db		

Defect ID:	DEFECT000547765		
Technical Severity:	High	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Traffic Management	
Reported In Release:	FOS7.0.2	**Technology Area:**	Buffer Credit Management
Symptom:	Link reset events encountered on internal back-end (BE) port trunks while there are no link errors or credits lost.		
Condition:	Under conditions of heavy congestion that cause frames to be dropped at internal Back-End ports and Front-End E-ports at the same time. If multiple overlapping frame drops are detected, then a Link Reset may be observed on a link even though no credits were actually lost. This defect only affects 8G Platforms.		
Workaround: Disable Front-End E-ports credit recovery.			
Recovery: Remove the source of congestion that is causing frame drops.			

Defect ID:	DEFECT000547921		
Technical Severity:	High	**Probability:** Low	
Product: Brocade Fabric OS		**Technology:** Management	
Reported In Release:	FOS7.3.1	**Technology Area:**	Access Gateway
Symptom:	In an AG fabric or NPIV environment, device is not found or HBA detects SCSI command timeout and fabric switch stops routing AG switch/NPIV device traffic.		
Condition:	This may occur when fabric switch is configured for session based zoning and a device connected to AG switch or an NPIV device, that is not in any zone database, is enabled. This causes all traffic going through the same fabric switch F-port to be disrupted. This issue only impacts 16G fabric switch running FOSv7.4.0, FOSv7.3.1 and FOSv7.2.1d		
Workaround: Use hard zoning on fabric switch, or add the device into zoning database first before bringing it online.			
Recovery: Upon hitting this issue, the user may bring up ANY zoned member on AG switch or NPIV, that is using the fabric switch F-Port, to recover. .			

Defect ID:	DEFECT000548512		
Technical Severity:	High	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Management	
Reported In Release:	FOS7.3.0_HUR	**Technology Area:**	Fibre Channel Services
Symptom:	Switch experienced panic during system verification test and disabling switch during D-port test.		
Condition:	This is seen in a race condition when diag test reset ASIC while ASIC is being accessed in parallel.		

Defect ID:	DEFECT000548713	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Distance
Reported In Release: FOS7.2.0		**Technology Area:** FCIP - Fibre Channel over IP
Symptom:	Disk to disk mirroring application failures with associated XTUN-1001 RASLOG messages.	
Condition:	When a specific Disk to Disk mirroring application encounters IO errors over a 7800 or FX8-24 FCIP Tunnel, it will issue an odd sequence of Extended Link Services commands (concurrent LOGO/LOGO and PLOGI sequences). The problem can be encountered if the FCIP Tunnel has OSTP and/or Fast Write enabled and there are still active FCP commands flowing when the ELS sequences are processed.	
Recovery:	Reboot 7800 platform or slotpoweroff/slotpoweron the FX8-24 blade.	

Defect ID:	DEFECT000549030	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Monitoring
Reported In Release:	FOS7.4.0	**Technology Area:** D-Port - Diagnostic Port
Symptom: Dport test between two FC16-64 blades fail.		
Condition: If Dport on demand, or dynamic Dport or static Dport is in effect, the Dport test between two FC 16-64 blades may fail.		
Workaround: Disable Dport configuration and do not allow dynamic or on demand Dport to run.		
Recovery: Use "portdporttest --exit" to exit failed Dport test. Disable Dport configuration and do not allow dynamic or on demand Dport to run. Toggle the port.		

Defect ID:	DEFECT000549140	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Security
Reported In Release:	FOS7.4.0	**Technology Area:** Security Vulnerability
Symptom: CVE-2013-4548: With AES-GCM configured, it's possible to bypass intended ForceCommand and login-shell restrictions via packet data that provides a crafted callback address. CVE-2014-2532: A remote user can modify AcceptEnv variable to bypass intended environment variable restrictions		
Condition: CVE-2013-4548 : Configurations where SSH ciphers use AES GCM for SSH connection CVE-2014-2532: Use of root account and editing of the SSH configuration file.		

Defect ID:	DEFECT000549168	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Extension
Reported In Release:	FOS7.4.0	**Technology Area:** Extended Fabrics
Symptom: If any VE ports are disabled non-persistently before a non-disruptive firmaredownload is performed on 7840 then, those VE ports will come up as online after the non-disruptive firmwaredownload		
Condition: Non-disruptive firmwaredownload on 7840 to FOS 7.4.0 where VE ports have been disabled non-persistently.		
Workaround: Persistently disable any disabled VE ports prior to a non-disruptive firmwaredownload.		

Recovery:	Disable the VE port(s) after the non-disruptive firmwaredownload. Persistently disabled VE ports are not affected.

Defect ID:	DEFECT000549278	
Technical Severity:	Medium	Probability: High
Product:	Brocade Fabric OS	Technology: Distance
Reported In Release:	FOS7.4.0	Technology Area: FCIP - Fibre Channel over IP
Symptom:	The 'portshow lan-stats --per-flow --tcp' command incorrectly reports 0 for the TCP TX bytes field even when LAN traffic is active.	
Condition:	Issuing the 'portshow lan-stats --per-flow --tcp' command.	

Defect ID:	DEFECT000549312	
Technical Severity:	Medium	Probability: Low
Product:	Brocade Fabric OS	Technology: Management
Reported In Release:	FOS7.4.0	Technology Area: Configuration Fundamentals
Symptom:	Non-disruptive migration failed on switch.	
Condition:	During remote inter-process communication (IPC) timeout error condition, user may observe ipc_proxy termination first, then subsequently upgrade issues.	

Defect ID:	DEFECT000549477	
Technical Severity:	High	**Probability:** High
Product:	Brocade Fabric OS	**Technology:** Monitoring
Reported In Release:	FOS7.4.0	**Technology Area:** MAPS - Monitoring and Alerting Policy Suite
Symptom:	MAPS might generate a transient MAPS-1021 RASLOG message to indicate switch in Critical state due to faulty port rule/thresholds has violated during CEC testing. Effect of this RASLOG does not stay very long (less than few minutes) and MAPS generates a healthy message.	
Condition:	This happens during CEC IML test.	

Defect ID:	DEFECT000549601	
Technical Severity:	High	**Probability:** Medium
Product:	Brocade Fabric OS	**Technology:** Distance
Reported In Release:	FOS7.4.0	**Technology Area:** FCIP - Fibre Channel over IP
Symptom:	In an IP Extension enabled FCIP Tunnel, if a customer is running with relatively high LAN side TCP connections (approximately 100 or more), along with high latency and some packet loss in the network, the FCIP Tunnel may bounce (timeout), which will cause traffic disruption.	
Condition:	This condition is brought out with high LAN side TCP connections, in high latency (100ms or more) and relatively high packet loss (0.05%) network conditions. It is related to IP Extension traffic only.	
Workaround:	If the application allows for greater timeout than the default of 6 seconds, the FCIP Tunnel Circuit's timeout option may be increased. The option is --keepalive-timeout <ms> on either the portcfg fciptunnel or portcfg fcipcircuit commands.	
Recovery:	The FCIP Tunnel itself will timeout and then re-establish itself.	

Defect ID:	DEFECT000550167	
Technical Severity:	Medium	**Probability:** Medium
Product:	Brocade Fabric OS	**Technology:** Monitoring
Reported In Release:	FOS7.3.1	**Technology Area:** Fabric Watch
Symptom:	portthconfig --show CLI does not show ST area configuration (either default or custom) for port class.	
Condition:	All platforms exhibit this behavior with FOS 7.3.1 version and above	

Defect ID:	DEFECT000550227	
Technical Severity:	High	**Probability:** Low

Product:	Brocade Fabric OS	Technology:	Extension
Reported In Release:	FOS7.3.0	**Technology Area:**	WAN Performance Analysis Tools
Symptom:	After running WTOOL tests on FCIP connections between a pair of 7840 switches, BLZ-5024 messages are reported indicating that there was a FCIP DP core panic.		
Condition:	After using WTOOL to test FCIP connections between a pair of 7840s, if the listener side of WTOOL connection is left active, there is a DP buffer leak issue that will cause the depletion of the DATA buffer pool and eventual DP Panic (BLZ-5024).		
Workaround:	Terminate all WTOOL connection states after completing WTOOL testing on both ends of the tested connections. Terminate both the initiator and the listener WTOOL connections when completed using WTOOL.		

Defect ID:	DEFECT000550377		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology:**	Monitoring
Reported In Release:	FOS7.4.0	**Technology Area:**	MAPS - Monitoring and Alerting Policy Suite
Symptom:	MAPS daemon may get terminated. If it is terminated multiple times in a short period of time, the switch may lose HA synchronization.		
Condition:	The problem can happen when configdownload, mapspolicy command is run, or when a switch is polled for MAPS data before MAPS daemon has finished initialization.		
Recovery:	When MAPS gets restarted, the system should work fine. If daemon restart fails and causes switch to get out of HA synchronization, a cold boot is needed to recover HA.		

Defect ID:	DEFECT000550514		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Other
Reported In Release:	FOS7.2.1	**Technology Area:**	Other
Symptom:	Creditrecovmode --check fails between core blade and FX8-24 blade creditrecovmode --check 5/108,30 Error: Not Supported on this link.		
Condition:	Error: Not Supported on this link is seen if an AP blade has ever had a VE port enabled without a reboot, manual credit recovery CLI "creditrecovmode" occurring. This is seen even if the VE port is currently disabled.		
Recovery:	After rebooting the switch, the "creditrecovmode --check" will work on non-VE port AP blade.		

Defect ID:	DEFECT000550874		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	Management
Reported In Release:	FOS7.3.1	**Technology Area:**	Fibre Channel Services
Symptom:	With 16Gbps FC cards from a specific vendor connected to Brocade 6546, OS Boot failures occur at a high probability and the attached port on BR6546 becomes a G-Port.		
Condition:	This may be encountered with HBAs from a specific vendor on a BR6546 platform.		

Defect ID:	DEFECT000550923		
Technical Severity:	Medium	**Probability:**	Medium

Product:	Brocade Fabric OS	Technology: Other	
Reported In Release:	FOS7.3.0	Technology Area:	Other
Symptom:	3rd party application queries with an alias name that doesn't require padding often fail with an error code 0x9.		
Condition:	This occurs when an user application tries to get zoning alias name information from switch.		
Workaround:	Recommend that User application add 4 byte pad to the word-align alias name query		

Defect ID:	DEFECT000551057		
Technical Severity:	Medium	Probability: Low	
Product:	Brocade Fabric OS	Technology: Monitoring	
Reported In Release:	FOS7.4.0	Technology Area:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	"sddquarantine --clear all" clears the SDD port list but "sddquatantine --show" indictaes that it does not delete the local quarantine devices in the device fabric list.		
Condition:	Devices continue to appear in the fabric list after "sddquarantine --clear all" has been run to clear the quarantined ports.		
Recovery:	portdisable and portenable the local ports which are shown in quarantined state in the fabric list		

Defect ID:	DEFECT000551318		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	Other
Reported In Release:	FOS7.4.0	**Technology Area:**	Other
Symptom:	BNA is not able to discover the DCX and DCX-4s platforms.		
Condition:	This is encountered when two or more application blades are present in the chassis based platforms DCX/DCX-4s.		

Defect ID:	DEFECT000551420		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Monitoring
Reported In Release:	FOS7.3.1	**Technology Area:**	Fabric Watch
Symptom:	Incorrect comparison operator is seen in the MAPS rules that are obtained as the result of converting fabric watch setting corresponds to resource class, flash area.		
Condition:	This issue is seen when user executes "mapsconfig --fwconvert" command		

Defect ID:	DEFECT000551504		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology:**	Management
Reported In Release:	FOS7.4.0	**Technology Area:**	Software Upgrade
Symptom:	Firmware upgrade from v7.2.x to v7.4.0 is not blocked while SIM ports exist. The port will not function properly.		
Condition:	When SIM ports are defined on v7.2.x, firmware upgrade to v7.4.x is not blocked. However, firmware upgrade to v7.3.x is blocked properly		
Workaround:	Unconfigure SIM port before upgrade		

Defect ID:	DEFECT000551520		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	Extension
Reported In Release:	FOS7.2.0	**Technology Area:**	WAN Performance Analysis Tools
Symptom:	Brocade NMS monitoring services are unable to do snmpwalk of fcipExtendedLinkTable to collect statistical data.		
Condition:	When a 7800 or FX8-24 blade is configure with Virtual Fabrics and have the GE ports in the default switch and the VE port in a separate VF the fcipExtendedLinkTable fails.		

If the GE ports and VE port are in the same VF the snmpwalk will work without problems.	

Defect ID:	DEFECT000551522		
Technical Severity:	High	**Probability:** Low	
Product:	Brocade Fabric OS	**Technology:** Extension	
Reported In Release:	FOS7.4.0	**Technology Area:**	FCIP - Tunnel Management
Symptom:	At the start of non-disruptive firmware download[HCL] on VE ports if there is a Tunnel outage and the tunnel comes online later, it can result in DP-Recovery and all VEs on that DP will be disrupted.		
Condition:	Tunnel outage at the start of HCL		

Defect ID:	DEFECT000551531	
Technical Severity:	High	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Security
Reported In Release:	FOS7.4.0	**Technology Area:** Security Vulnerability
Symptom:	OpenSSL Security Advisory [19 Mar 2015]: CVE-2015-0286, CVE-2015-0288, CVE-2015-0289, CVE-2015-0292. These vulnerabilities allow various maliciously crafted data could trigger segment fault, memory corruption or DOS attack.	
Condition:	To exploit these vulnerabilities in FOS requires access to switch after user authentication through console, Telnet, and SSH connections.	
Workaround:	Place switch and other data center critical infrastructure behind firewall to disallow access from the Internet; Change all default account passwords; Delete guest accounts and temporary accounts created for one-time usage needs; Utilize FOS password policy management to strengthen the complexity, age, and history requirements of switch account passwords. Upgrading to a FOS version including this fix prevents exposures to the four CVEs noted in the defect Symptom.	

Defect ID:	DEFECT000551676	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Monitoring
Reported In Release:	FOS7.1.1	**Technology Area:** Hardware Monitoring
Symptom:	I2c errors may be encountered during the early init phase of the system such as - VPD write seeprom (fru) 0x75 (bus addr 0x54, mem addr 0x90) len 14, i2c return -1	
Condition:	This may be seen under rare i2 access contention situations on switches only. Directors are not subject to this access contention.	
Recovery:	It seems to recovery by retry. No user action is needed.	

Defect ID:	DEFECT000551786	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Traffic Management
Reported In Release:	FOS7.4.0	**Technology Area:** FICON
Symptom:	Device console displays Missing Interrupts or timeouts to FICON CUP and ports lose established logical paths.	
Condition:	This happens when a device is power-on-reset (POR).	
Recovery:	Re-establish Logical Paths by varying CUP online	

Defect ID:	DEFECT000551787	
Technical Severity:	High	**Probability:** Medium

Product: Brocade Fabric OS		**Technology:** Traffic Management	
Reported In Release: FOS7.4.0		**Technology Area:** Fibre Channel Routing	
Symptom:	FCR devices not imported for up to 10 minutes following hafailover, resulting in IO disruption.		
Condition:	This may be encountered in an FCR setup, when ports(E/ExVex/Fport) are bounced in edge fabric during hafailover. This only impacts FOS7.3.x and FOS7.4.0 with staged port matching feature.		
Workaround:	If there is VEx port in a FCR fabric, upgrade to a FOS version with this fix. If already running a version of FOS without this fix, contact tech support to disable staged port matching feature on backbone fabric to reduce future risk until able to upgrade to a version with fix.		
Recovery:	Wait approximately 10 minutes for FCR to re-import the devices after an HaFailover or toggle end device to recover		

Defect ID:	DEFECT000551965	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Traffic Management
Reported In Release:	FOS7.4.0	**Technology Area:** FICON
Symptom:	Invalid Neighbor Node identifier returned for Read Node ID CCW from CUP, when FOS Port number is different from CUP Port Address.	
Condition:	It happens under follow testing condition: 1. FMS enabled. 2. Switch online to MVS 3. IOS FICON STATS=YES, is set in MVS 4. RMF is polling the switch	

Defect ID:	DEFECT000552474	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Traffic Management
Reported In Release:	FOS7.2.1	**Technology Area:** FICON
Symptom:	Unable to run Teradata with Teradata FICON emulation enabled on the FCIP tunnel.	
Condition:	When Teradata emulation is enabled on an FCIP tunnel and a read operation presents early ending status for a short read. This leads to an error in the FICON Teradata emulation logic and subsequent IOs fail.	
Workaround: Disable Teradata emulation on the FCIP Tunnel.		

Defect ID:	DEFECT000552552	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Traffic Management
Reported In Release:	FOS7.3.1	**Technology Area:** Port Bring-up
Symptom:	Speed will show higher (in switchshow) than actual SFP speed. For instance, 8G SFP will negotiate to 16G speed though SFP is not capable of 16G speed.	
Condition:	This occurs when remote 16G capable port generates Loss of Signal (light cut-off and on) by cable plug-out/in after switch performed HA-failover.	
Workaround: Use 16G SFP on 16G port blade		
Recovery:	Use CLI portdisable/porteanble to recover the affected port. But the problem can reoccur if there is a subsequent hafailover on the switch and the remote 16G port cuts light again.	

Defect ID:	DEFECT000552590	
Technical Severity:	Medium	**Probability:** High

Product:	Brocade Fabric OS	Technology: Security	
Reported In Release:	FOS7.4.0	**Technology Area:**	Zoning
Symptom:	"zoneshow --validate <zone_name>" without any mode option doesn't validate the enforced zone database.		
Condition:	Run CLI zoneshow to perform zone validation.		

Defect ID:	DEFECT000552632		
Technical Severity:	High	**Probability:** High	
Product:	Brocade Fabric OS	Technology: Monitoring	
Reported In Release:	FOS7.4.0	**Technology Area:**	MAPS - Monitoring and Alerting Policy Suite
Symptom:	If a supportsave is attempted immediately after a switch reboot,but before the switch is in a stable state this will cause an additional reboot.		
Condition:	This is seen when the supportsave command is issued after a system reboot and before the system moves to stable state.		

Defect ID:	DEFECT000552808		
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Distance	
Reported In Release:	FOS7.4.0	**Technology Area:**	FCIP - Fibre Channel over IP
Symptom: Hot Code Load (HCL) turned into a disruptive upgrade on a Brocade 7840.			
Condition: During an HCL upgrade, a retryable error is hit during the Feature Disable portion of the upgrade.			

Defect ID:	DEFECT000553129		
Technical Severity:	Medium	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Other	
Reported In Release:	FOS7.4.0	**Technology Area:**	Other
Symptom: Observed fcippathtest fail executing lb_mode 5 with -nframes options in Brocade 7800 with: BTR ETH ASIC port 0 Link Status FAILED 0x168 fcippathtest: Blaster port 50, bad lli status			
Condition: This may occur when fcippathtest is run for a high number of iterations			

Defect ID:	DEFECT000553197		
Technical Severity:	High	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Extension	
Reported In Release:	FOS7.3.1	**Technology Area:**	FCIP - Fibre Channel over IP
Symptom: I/O errors to BR7840 FCIP Open Systems Tape Pipelining connected FCP SID/DID pairs and XTUN-1000 Missed data frame RASLOG.			
Condition: This may occur when OSTP is currently in read pipelining when a FCP Inquiry command is received using the same OXID that is currently active for an OSTP read-ahead read command sequence.			
Workaround: Disable OSTP Read Pipelining on the BR7840 FCIP Tunnel.			

Defect ID:	DEFECT000553500		
Technical Severity:	Medium	**Probability:** Low	
Product: Brocade Fabric OS		**Technology:** Other	
Reported In Release:	FOS7.4.0	**Technology Area:**	Other
Symptom: BNA will not be able to upload or download the port address details from the switch.			
Condition: When using BNA to upload/download port address			
Workaround: Use the CLI configupload and configdownload commands.			

Defect ID:	DEFECT000553920		
Technical Severity:	Medium	**Probability:** Low	
Product:	Brocade Fabric OS	**Technology:** Management	
Reported In Release:	FOS7.2.1	**Technology Area:**	Virtual Fabrics
Symptom:	Ports in logical switch may bounce following firmwaredownload or hareboot.		
Condition:	In a VF environment with XISL on and base switch not defined, FMS is enabled on one logical switch, other logical switches without FMS mode enabled, will have FICON filters installed on ports by mistake and cause traffic disruption.		

Defect ID:	DEFECT000554238		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Management
Reported In Release:	FOS7.4.0	**Technology Area:**	Software Upgrade
Symptom:	After swapping QSFP with 2km SFP on core blade ICL ports, downgrade to FOS v7.3.x is blocked.		
Condition:	This is seen when QSFP is replaced by 2km SFP, and a firmware code downgrade is attempted.		
Recovery:	Remove all 2km optics, find old standard QSFP optics and insert them into the empty ports previously occupied by the 2km optics, then perform firmware downgrade.		

Defect ID:	DEFECT000554530		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Security
Reported In Release:	FOS7.2.1	**Technology Area:**	Zoning
Symptom:	Zone enforcement may not be properly enforced on an NPIV port which can lead to timeouts or frame loss at any of the NPIV devices on the same switch port		
Condition:	This may be seen when a device on an NPIV port that has no zoning members (un-zoned device) existing on the same NPIV port as other devices with zoning members defined. Zoning configuration change (cfgsave or cfgenable) can lead to incorrect zoning enforcement on this port. Any non-NPIV ports that also have no zoning definition (no members defined) will also be left in a state where these un-zoned ports would be able to communicate with each other. No impact to ports that have zoning defined. This can be seen in FOS v7.2.1d, v7.2.1e, v7.3.1, v7.3.1a, v7.4.0, v7.4.0a		
Workaround:	NS queries will properly block access to viewing any other devices, but physical access could still be allowed. To prevent any physical access, create a "dummy zone" for all ports that are currently un-zoned (no zoning members defined)		

Defect ID:	DEFECT000554744		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	System
Reported In Release:	FOS7.3.1	**Technology Area:**	Web Tools
Symptom:	The alias member revert back to an old offline WWPN as one switched from the "Alias" tab to the "Config" tab in Web Tools.		
Condition:	Name server dialog is opened with "Auto refresh" on, such that name server info, zoning info and switch details will be polled from switch and refreshed in Web Tools. As the zone information is refreshed, user changed zone alias will be		

overwritten.	
Workaround: Disable the auto refresh before doing any zoning changes in Web Tools	

Defect ID:	DEFECT000554772		
Technical Severity:	High	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Distance	
Reported In Release:	FOS7.4.0	**Technology Area:**	FCIP - Fibre Channel over IP
Symptom: BR7840 FCIP HCL Failure (firmware download is disruptive of FCIP traffic over the FCIP Tunnel)			
Condition: This is encountered when attempting to perform FCIP HCL on a BR7840 FICON Emulation enabled tunnel.			
Workaround: As a work around, schedule a maintenance window to perform disruptive firmware download.			

Defect ID:	DEFECT000554782		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology:**	Management
Reported In Release:	FOS7.4.0	**Technology Area:**	Software Upgrade
Symptom:	Unable to download v7.4.0 firmware with unsupported performance monitor configurations on base switch.		
Condition:	Moving a default switch with toptalker on as base switch leads to unsupported toptalker configurations on base switch. Firmware download to v7.4 is blocked at this point and there is not command to clear the toptalker as well.		
Workaround:	Don't make a logical switch configured with toptalker as base switch.		

Defect ID:	DEFECT000555034		
Technical Severity:	Low	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	Monitoring
Reported In Release:	FOS7.4.0	**Technology Area:**	RAS - Readiness, Availability and Serviceability
Symptom:	Customer may see an alert on intrusion detection system due to switch sending a frame to 127.1.10.1 out management interface.		
Condition:	This may be encountered only on non-chassis systems with no Application Processor Blade.		

Defect ID:	DEFECT000555130		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	Distance
Reported In Release:	FOS7.4.0	**Technology Area:**	FCIP - Fibre Channel over IP
Symptom:	The TCL rule filter based on port number does not work properly on BR7840.		
Condition:	When using TCL Port rules to filter the TCP traffic, traffic is not filtered properly.		

Defect ID:	DEFECT000555286		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Extension
Reported In Release:	FOS7.1.1	**Technology Area:**	FCIP - Fibre Channel over IP
Symptom:	FCIP OSTP (Open Systems Tape Pipelining) Read I/O Job failures (block count mismatch or other errors).		
Condition:	After tape server or tape server HBA code upgrade, SSC-2/3 (T10 standard) commands can be issued to an FCIP OSTP enabled tunnel to a tape device. FCIP		

currently does not have the SSC-2 command set implemented and therefore unknown errors can occur.	
Workaround: Disable OSTP Read Pipelining on the FCIP Tunnel between the server and the tape device.	

Defect ID:	DEFECT000555366		
Technical Severity:	Medium	**Probability:** Medium	
Product:	Brocade Fabric OS	**Technology:** Traffic Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	FICON
Symptom:	Timeouts at the Host, when CUE's are incorrectly processed after a System Reset or Selective Reset.		
Condition:	This can happen when there are multiple pending CUE's, and any LPAR sends a System Reset.		

Defect ID:	DEFECT000555831	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Other
Reported In Release:	FOS7.3.0	**Technology Area:** Other
Symptom: Memory leak caused weblinker to crash and restart		
Condition: Various operations such as configupload operation from BNA and LDAP authentication caused memory issue with weblinker.		
Workaround: Perform configupload via CLI. Avoid frequent configupload/stats from BNA		

Defect ID:	DEFECT000555992	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Security
Reported In Release:	FOS7.4.0	**Technology Area:** Zoning
Symptom: When a device attempts to create a Target Driven Peer Zone with the zone name containing symbol(s) such as $-^ the commit may fail with a RASLOG similar to the following example: 2015/04/23-07:07:07:315992, [ZONE-3032], 5439/1856, FID 128, ERROR, spirit4, Target Driven Peer Zone "peerzone_rtp-array4-A_fc6_1" add operation from device 30:04:00:05:1e:61:23:8f failed due to an error in creating the zone object in the defined db., zs.c, line: 4445, comp:zoned, ltime:2015/04/23-07:07:07:311958		
Condition: The above mentioned RASLOG ZONE-3032 will be displayed, when a device attempts to create a Target Driven Peer Zone with the zone name containing symbol(s) such as $-^ allowed as per the FC-GS-7 standard.		
Workaround: Device should attempt to recreate the Target Driven Peer Zone with the zone name containing symbol(s) supported by the current FOS implementation. Currently, FOS supports zone names consisting of alphanumeric characters and the symbol _ (underscore).		

Defect ID:	DEFECT000556067	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Monitoring
Reported In Release:	FOS7.4.0	**Technology Area:** MAPS - Monitoring and Alerting Policy Suite
Symptom: MAPS alerts for FRM_TRUNC errors will be logged for backend ports after HA Failover.		
Condition: This happens if Frame Truncation errors have been on backend ports prior to HA Failover.		

Defect ID:	DEFECT000556121		
Technical Severity:	High	**Probability:** Low	
Product: Brocade Fabric OS		**Technology:** Traffic Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	Fibre Channel Routing
Symptom: The -frametype of the vtap flow was "firstresp" which is not very relevant.			
Condition: flow --show would display the parameters of the vtap flow. The -frametype would be listed in it.			

Defect ID:	DEFECT000556188		
Technical Severity:	High	**Probability:** Low	
Product: Brocade Fabric OS		**Technology:** Traffic Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	Buffer Credit Management
Symptom: On 16G director, while credit recovery feature is not turned on, if there is unstable back-end link, blade could be faulted.			
Condition: A blade could be faulted on 16G director when following conditions are meet: 1. Credit recovery feature is off 2. There is credit loss caused by link level error on back-end ports. 3. The link cannot be recovery by an automatic Link Reset. This can happen with FOS7.2.1e and 7.3.1a and FOS7.4.0; With earlier releases, the credit loss will result no further action until user manually link reset if credit recovery feature is off.			
Workaround: Turn on credit recovery "creditrecovmode --cfg onLrOnly" to limit the fault to a back-end port only under error condition.			
Recovery: Turn on credit recovery "creditrecovmode --cfg onLrOnly" to limit the fault to a back-end port only under error condition.			

Defect ID:	DEFECT000556197		
Technical Severity:	Medium	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Other	
Reported In Release:	FOS7.4.0	**Technology Area:**	Other
Symptom: CLI portcfgexport command without port arguments receives "segmentation fault".			
Condition: When running portcfgexport CLI with no argument, none will present slot/port number etc.			

Defect ID:	DEFECT000556419		
Technical Severity:	Medium	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Management	

Reported In Release:	FOS7.4.0	Technology Area:	SNMP - Simple Network Management Protocol
Symptom:	MIB browser displays octetstring instead of decimal for both SNMP traps and queries.		
Condition:	All the traps/queries with fcportflag would see this problem.		

Defect ID:	DEFECT000556544		
Technical Severity:	Medium	**Probability:** Low	
Product:	Brocade Fabric OS	**Technology:** Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	Configuration Fundamentals
Symptom:	Configuration of IPv6 address on BR5480 and BR6548 via OA does not work.		
Condition:	Support for IPv6 on BR5480 and BR6548 was never there,		

Defect ID:	DEFECT000556838	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Monitoring
Reported In Release:	FOS7.4.0	**Technology Area:** Flow Vision
Symptom: When the predefined flow mirror flow is deactivated, the system panics.		
Condition: This issue happens during flow deactivation.		

Defect ID:	DEFECT000556926	
Technical Severity:	High	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Distance
Reported In Release:	FOS8.0.0	**Technology Area:** FCIP - Fibre Channel over IP
Symptom: DP Panics on BR7840 due to memory corruption		
Condition: This is a rare occurrence from a race condition where TCP Header access occurs after the wire buffer has been freed in IPV6 configuration		

Defect ID:	DEFECT000556929	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.4.0	**Technology Area:** Software Upgrade
Symptom: When firmwaredownload is performed from v7.4.0 to v7.3.1 or lower, disabling AE port message is not generated if AE ports are configured.		
Condition: AE port support is available from v7.3.2 So whenever firmware downgrade is performed from v7.4.0 to v7.3.1 or lower, AE port disable message should get displayed if it is configured.		

Defect ID:	DEFECT000557254	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Traffic Management
Reported In Release:	FOS7.4.0	**Technology Area:** FICON
Symptom: CUP goes offline when CSCTL priority is enabled on CUP port.		
Condition: Plogi response frame has priority bit set and CSCTL priority to the CUP is not supported.		

Defect ID:	DEFECT000557438	
Technical Severity:	High	**Probability:** Low

Product:	Brocade Fabric OS	Technology:	Management
Reported In Release:	FOS7.4.0	**Technology Area:**	Configuration Fundamentals
Symptom:	When a device zoned with more than 32 ports, if such a port is auto-quarantined by MAPS policy, the enforcement would fail. User may not receive any message from switch for this non-enforcement of quarantine action.		
Condition:	MAPS policy for AVQ is enabled in the switch and Ports have high zone density, i.e. zoned more than 32 ports both local and remote.		

Defect ID:	DEFECT000557597		
Technical Severity:	Medium	**Probability:**	High
Product: Brocade Fabric OS		**Technology:** Security	
Reported In Release:	FOS7.4.0	**Technology Area:**	Zoning
Symptom: The output of "Zoneshow --alias <aliasPattern>" CLI is supposed to display only the zone configuration containing matched alias, but it also displays the matched zone configuration patterns(WWN or D,I).			
Condition: It will occur only if the WWN or D,I entries present in zone configuration matches the alias search pattern. Possible cases: Zone1: ali1 Zone2: 1,2; The "zoneshow --alias 1*" will display both the zone1 and zone2 configurations. This command should only display zone1.			

Defect ID:	DEFECT000557644		
Technical Severity:	High	**Probability:**	Medium
Product: Brocade Fabric OS		**Technology:** Traffic Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	FICON
Symptom: CUP fails to correctly establish new Reporting Logical Path after receiving Sel Reset			

Condition: It failed under following conditions during test:
    1. FMS enabled.
    2. Switch online to MVS
    3. Health Checker running, with IOS_FABRIC_MONITOR.
    4. FMS action is enabled in MAPS config
    5. MAPS rules having the FMS action are triggered			

Defect ID:	DEFECT000557651		
Technical Severity:	High	**Probability:**	Low
Product: Brocade Fabric OS		**Technology:** Management	
Reported In Release:	FOS7.2.1	**Technology Area:**	Configuration Fundamentals
Symptom: Director panics while port blade reports power failure.			
Condition: It happens when a port blade suddenly lost power, and CP continues to access the blade without valid blade information.			
Recovery: Remove problem blade.			

Defect ID:	DEFECT000557786		
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Other	
Reported In Release:	FOS7.4.0	**Technology Area:**	Other
Symptom: Observed "verify: Found error in fcippathtest during run 1 showresult 0 testresult 4" during systemverification –short.			
Condition: When fcippathtest in run for a higher number of iterations on BR7800			

Defect ID:	DEFECT000558108		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Monitoring
Reported In Release:	FOS7.4.1	**Technology Area:**	RAS - Readiness, Availability and Serviceability
Symptom:	RAS-1004 raslog messages are seen logged as WARNING messages.		
Condition:	This was the default setting for this message. This has since been changed to INFO setting so as to avoid any undue alarm.		

Defect ID:	DEFECT000558281		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology:**	Security
Reported In Release:	FOS7.3.1	**Technology Area:**	Encryption
Symptom:	Encryption blades were faulted resulting in loss of paths to encrypted LUNs.		
Condition:	It happens during a Read Cap on access check LUNs which caused memory to be freed twice.		

Defect ID:	DEFECT000558395		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	System
Reported In Release:	FOS7.3.1	**Technology Area:**	Web Tools
Symptom:	Sorting on Port ID doesn't work properly on Port Admin and Name server "Accessible devices".		
Condition:	Port Admin, the issue was seen when the switch is configured with logical ports. The sorting support was not provided for the Accessible devices in Name server		

Defect ID:	DEFECT000558507		
Technical Severity:	High	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology:**	Distance
Reported In Release:	FOS7.2.0	**Technology Area:**	FCIP - Fibre Channel over IP
Symptom:	FX8-24 DP Soft Faults due to SE Core Panic after [FICN-1056] FICON Emulation Error Error Code=7,		
Condition:	Error case when XRC update traffic is running over FCIP XRC Emulation enabled tunnel.		
Workaround:	Disable FICON XRC emulation on the FCIP Tunnel.		

Defect ID:	DEFECT000558511	
Technical Severity:	High	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.4.0	**Technology Area:** Configuration Fundamentals
Symptom:	Loss of CUP connectivity in a cascaded FICON environment, following the disruption of all ISL paths to a given CUP.	
Condition:	Following disruption of all ISL paths to a given cascaded CUP, subsequent exchanges destined to the cascaded CUP cannot be delivered until a new PLOGI session is established.	
Recovery:	Vary channel online to recover.	

Defect ID:	DEFECT000558522		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Monitoring
Reported In Release:	FOS7.4.0	**Technology Area:**	MAPS - Monitoring and Alerting Policy Suite
Symptom:	The VTAP_IOPS monitoring for mirrored IOPS will not be monitored in Non-Default Logical switches if vTAP flow in Default logical switch is deactivated. As a result, any rule that uses VTAP_IOPS will not be monitored in this state.		
Condition:	When vTap is deactivated in Default logical switch and VTAP_IOPS rules are present in active policy in non-Default logical switches.		

Defect ID:	DEFECT000558611		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Distance
Reported In Release:	FOS7.4.0	**Technology Area:**	FCIP - Fibre Channel over IP
Symptom:	Customer may see reduced bandwidth for non-TCP traffic like UDP. This can happen even when overall WAN bandwidth is less utilized.		
Condition:	Issue may happen when tunnel is disabled or if tunnel goes down during active non-TCP (UDP) traffic.		
Workaround:	Avoid disabling tunnel during active non-TCP (UDP) traffic.		
Recovery:	BR7840 needs to be rebooted to recover from this issue.		

Defect ID:	DEFECT000558936		
Technical Severity:	Medium	**Probability:**	Low
Product:	Brocade Fabric OS	**Technology:**	Other
Reported In Release:	FOS7.3.1	**Technology Area:**	Other
Symptom:	HIF mode value is not always being displayed in switchshow output .		
Condition:	This is encountered when HIF mode is disabled. HIF mode value is displayed only when HIF mode is enabled.		

Defect ID:	DEFECT000559123		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Extension
Reported In Release:	FOS8.0.0	**Technology Area:**	WAN Performance Analysis Tools
Symptom:	Configured WAN Tool session only runs at half the committed rate.		
Condition:	When a WAN Tool session with a committed rate less than 1Gbps is configured, the WAN Tool session will run at half the configured committed rate.		

Defect ID:	DEFECT000559228		
Technical Severity:	High	**Probability:** High	
Product:	Brocade Fabric OS	**Technology:** Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	Configuration Fundamentals
Symptom:	Switch has failed the POST tests. FRU is being faulted." during firmwarecleaninstall in BR7840.		
Condition:	This happens when a firmwaredownload is done between two versions if there is a u-boot update happening. Firmwaredownload of same versions will not see this issue. POST will fail due to timeout only when the uboot update is happening.		
Recovery:	Subsequent reboots won't see the problem.		

Defect ID:	DEFECT000559362	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS8.0.0	**Technology Area:** Configuration Fundamentals
Symptom: The "NoActivityTimer" in D-port is supposed to expire after 20 seconds but it is getting fired in 10 seconds itself. The same case with all the timers.		
Condition: This occurs during D-Port verification test.		

Defect ID:	DEFECT000559709	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology:** System
Reported In Release:	FOS7.3.1	**Technology Area:** Web Tools
Symptom: Switch Health Report does not reflect accurate state of the ports: Web Tools shows the Error Ports Monitor as DOWN - but displays "All ports are healthy"		
Condition: Error Ports Monitor does not correctly reflect the status through Web Tools when there are ports with errors.		
Workaround: CLI command works properly and can be used as a workaround.		

Defect ID:	DEFECT000560087	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.3.0_HUR	**Technology Area:** Fibre Channel Services
Symptom: FOS date is off by one day after 24 hours at month end for Brocade 6543.		
Condition: Issue was due to incorrect handling of date in real-time clock driver.		

Defect ID:	DEFECT000560222	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Other
Reported In Release:	FOS7.4.0	**Technology Area:** Other
Symptom: 1. The current LCB accept only one LCB request. per system. 2. The length of the current LS_ACC or LS_RJT are not following FC-LS-3 standard.		
Condition: Switch running pre-FOS7.4.1 code using LCB feature.		

Defect ID:	DEFECT000560344

Technical Severity:	Medium	Probability: Medium	
Product: Brocade Fabric OS		Technology: Other	
Reported In Release:	FOS7.1.1	Technology Area:	Other
Symptom: Kernel panic while running fcping			
Condition: This issue is observed rarely when user runs fcping with large frame numbers from different sessions.			

Defect ID: DEFECT000560375			
Technical Severity:	High	Probability: Low	
Product: Brocade Fabric OS		Technology: Management	
Reported In Release:	FOS7.2.1	Technology Area:	Configuration Fundamentals
Symptom: Faulty power supply may lead to Raslog HIL-1611 (MISMATCH in PSU-FAN Air Flow direction.) resulting in system shutdown in 2 minutes			
Condition: This is triggered by a faulty power supply causing read failures in power supply fan sensors.			
Recovery: Replace the faulty power supply to recover.			

Defect ID:	DEFECT000560645	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.3.1	**Technology Area:** Configuration Fundamentals
Symptom: Management access (via assigned IP address of logical switch) is lost and changing IP addresses is not possible.		
Condition: This may happen when multiple logical switches have been created and assigned individual IP addresses for management purpose.		
Workaround: Create an extra logical switch, then make the appropriate IP address changes.		

Defect ID:	DEFECT000560757	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Monitoring
Reported In Release:	FOS7.3.1	**Technology Area:** RAS - Readiness, Availability and Serviceability
Symptom: When the user changes SNMP configuration attribute, switch outputs SNMP-1005 with previous value instead of current value.		
Condition: This behavior is seen in all platforms from FOS 7.3.1 onwards,when there is a change in SNMP configuration attribute.		

Defect ID:	DEFECT000560771	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.4.0	**Technology Area:** Configuration Fundamentals
Symptom: CLI fcippathtest failures are seen on FX8-24 blade when diags are verified for a longer duration.		
Condition: Stress testing may result in this issue on some of the boards. Should not occur under normal conditions.		

Defect ID:	DEFECT000560946	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Extension
Reported In Release:	FOS7.1.0	**Technology Area:** Extended Fabrics
Symptom: When attempting to form an ISL over an extended fabric link through a third party DWDM, the link does not form.		
Condition: This may be encountered on an E-port connected to a third party DWDM.		

Workaround: Physically unplug the cable between the two DWDMs and plug it back in. The link should have fewer errors and come up after that.	

Defect ID: DEFECT000560963			
Technical Severity:	Medium	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Traffic Management	
Reported In Release:	FOS7.3.0	**Technology Area:**	FICON
Symptom: IFCCs reported on mainframe console when shutting down Teradata connections.			
Condition: When shutting down the Teradata processes on the mainframe when the Teradata subsystem is accessed via a 7840 FICON Teradata Emulation FCIP tunnel.			
Workaround: Disable FICON Teradata Emulation on the 7840 FCIP Tunnel.			

Defect ID:	DEFECT000561100		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Management
Reported In Release:	FOS7.3.1	**Technology Area:**	SNMP - Simple Network Management Protocol
Symptom:	SNMP mibwalk of fcipExtendedLinkTable fails on BR7840.		
Condition:	It occurs when a BR7840 is configured with Virtual Fabrics and have the GE ports in the default switch and the VE port in a separate VF.		

Defect ID:	DEFECT000561174		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Monitoring
Reported In Release:	FOS7.2.1	**Technology Area:**	APM - Advanced Performance Monitoring
Symptom:	portperfshow display all zeros for some ports even when traffic is flowing.		
Condition:	The issue happens when an internal 32bit counter wraps.		
Recovery:	portdisable/portenable port to recover from the problem.		

Defect ID:	DEFECT000561332		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	Management
Reported In Release:	FOS7.3.1	**Technology Area:**	Configuration Fundamentals
Symptom:	FDMI Host Name parameter is added by reboot, then this parameter is removed by changing other parameters -- eg. Domain ID.		
Condition:	Run the 'configure' command to change another switch parameter, like Domain ID.		

Defect ID:	DEFECT000561694		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Monitoring
Reported In Release:	FOS7.4.0	**Technology Area:**	Flow Vision
Symptom:	The active CP gets rebooted due to software panic and stack frame is displayed on the console.		
Condition:	Poweroff of the port blade consisting AE-ports.		

Defect ID:	DEFECT000562107		
Technical Severity:	High	**Probability:**	Low

Product: Brocade Fabric OS	Technology: Management
Reported In Release: FOS7.4.0	Technology Area: Configuration Fundamentals
Symptom: iswitch queue full seen in one of the Backbone switches	
Condition: This is seen when adding zones in a large edge fabric. It leads to iswitch queue full in one of the Backbone switches to which the large edge fabric connects to.	

Defect ID:	DEFECT000562160		
Technical Severity:	High	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Management
Reported In Release:	FOS7.3.1	**Technology Area:**	Software Upgrade
Symptom:	Unable to run support-save on BR5460 after a series of upgrade/downgrade/upgrade because there is not enough compact flash memory.		
Condition:	This may be seen on 256MB or smaller flash capacity platforms, after performing upgrades / downgrades testing to various FOS versions		
Workaround:	Work with Brocade Support (with root permission) to remove stale files		

Defect ID:	DEFECT000562252		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	Distance
Reported In Release:	FOS7.3.0	**Technology Area:**	FCIP - Fibre Channel over IP
Symptom:	XTUN-1008 indicating that the FCP DP complex is almost 100% out of DRAM2 memory followed by an FFDC event (BLS-5024)		
Condition:	When running a specific FICON Tape Read Job that primarily uses only data chained reads. FICON emulation never acquires a model for this type of chain but rather consumes a large amount of DRAM2 attempting to define the read channel program model.		
Workaround:	Disable FICON Tape Read Pipelining on the FCIP Tunnel.		

Defect ID:	DEFECT000562473		
Technical Severity:	Critical	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	Distance
Reported In Release:	FOS7.4.0	**Technology Area:**	FCIP - Fibre Channel over IP
Symptom:	Tunnels and VE ports may go into degraded, in progress, or offline state. The user may be unable to ping LAN SVI addresses from LAN devices. Existing LAN IPEX connections may timeout.		
Condition:	The system must be configured for Hybrid mode with a LAN SVI address configured. In addition, either a WAN configured GE port is connected to LAN devices either directly or via a L2 LAN, or LAN configured GE ports are connected to the WAN network.		
Workaround:	Avoid connecting the LAN network to WAN configured GE port, or connecting the WAN network to LAN configured GE ports.		
Recovery:	A system reboot is needed to recover.		

Defect ID:	DEFECT000562624

Technical Severity:	Medium	Probability: Medium	
Product:	Brocade Fabric OS	Technology: Management	
Reported In Release:	FOS7.2.1	Technology Area:	Software Upgrade
Symptom:	During firmwaredownload the following message may be seen on the console' "Operation failed - port is already configured as F_Port buffers enabled ..."		
Condition:	This issue is seen when upgrading from v7.1.x to v7.2.x with any port configured for F_port buffers and qos enabled without adaptive networking license		
Workaround:	Ignore the message. It is benign and does not interfere with the firmwaredownload itself.		
Recovery:	firmwaredownload completes successfully. No recovery is necessary.		

Defect ID:	DEFECT000563176	
Technical Severity:	Medium	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Traffic Management
Reported In Release:	FOS7.3.1	**Technology Area:** Buffer Credit Management
Symptom:	On a switch where user had manually performed "creditrecovmode --cfg off", Link Reset will still occur upon detecting credit leak. A future hareboot could also cause traffic disruption.	
Condition:	This occurs on fixed port switch running FOS7.3.1b only, where a CLI "creditrecovmode --cfg off" had been previously invoked.	

Defect ID:	DEFECT000563219	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Other
Reported In Release:	FOS7.2.0	**Technology Area:** Other
Symptom:	configshow and route_info CLI commands may output different settings for the edgeHoldTime parameter (0 for configushow & 500 for route_info).	
Condition:	This difference in the setting is observed in supportsave as well as through regular CLI command invocations.	

Defect ID:	DEFECT000563346	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.3.0	**Technology Area:** Software Upgrade
Symptom:	Upgrade/downgrade to FOS v7.3.x may not proceed with message indicating "Unable to uninstall old packages".	
Condition:	This may be seen if previously a firmwaredownload -sf was performed from v6.4.x to v7.1.x. This leaves a stale package bpimage-swbd36 on the system that subsequently results in the above failure. This may also be seen during a downgrade from v7.4.x due to a similar discrepancy for another rpm package.	
Workaround:	Run the following command on the CP where the "firmwaredownload –s" is being invoked from: rm -rf /mnt/var/images/* If executing a full (non-disruptive) firmwaredownload to both CPs, then additionally run the same command on the standby CP as well.	
Recovery:	Same workaround can be applied to recovery from the condition also	

Defect ID:	DEFECT000563498	
Technical	High	**Probability:** High

Severity:	
Product: Brocade Fabric OS	**Technology:** Other
Reported In Release: FOS7.4.1	**Technology Area:** Other
Symptom: Not enough space to run full supportsave on BR5450 platform and compact flash space is nearly full: /dev/root 241648 221012 8164 96% /	
Condition: After a long running time, switch logfile /var/log/messages was flooded with messages. As a result, supportsave operation failed. This only applies to embedded platform.	
Recovery: cat /dev/null > /var/log/messages when switch is out of space before running supportsave.	

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

Defect ID:	DEFECT000563633		
Technical Severity:	High	**Probability:** Low	
Product: Brocade Fabric OS		**Technology:** Distance	
Reported In Release: FOS7.4.0		**Technology Area:** FCIP - Fibre Channel over IP	
Symptom: ICMP packet loss over IP Extension configuration			
Condition: In an IP extension configuration, if pause packets are received on LAN ports of remote 7840 while there is large amount of normal IP Extension traffic flowing over the IP Extension tunnel and PING is attempted over the IP Extension path then PING (ICMP) packet loss may be observed.			

Defect ID:	DEFECT000563638		
Technical Severity:	High	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Distance	
Reported In Release: FOS7.4.0		**Technology Area:** FCIP - Fibre Channel over IP	
Symptom: Observed FICON CHPID IFCCs and job failures.			
Condition: When FICON Tape Pipelining needs to handle an abnormal sequence such as Attention in REPOSITION_PENDING_STATE.			

Defect ID:	DEFECT000563649		
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Extension	
Reported In Release: FOS7.4.0		**Technology Area:** Fastwrite	
Symptom: BLZ-5024 FFDC, FCIP Tunnel Failures and IO Errors on a tunnel			
Condition: Problem occurs when the last data frame of a data transfer sequence is missing on an			

FCIP OSTP enabled FCIP Tunnel on a 7840.	
Workaround: Disable OSTP Read Pipelining on the BR7840 FCIP Tunnel.	

Defect ID:	DEFECT000564163		
Technical Severity:	Medium	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Monitoring	
Reported In Release:	FOS7.4.0	**Technology Area:**	Flow Vision
Symptom:	The user would find the sys* predefined flows when the "flow --show" is ran. But none of these flows can be activated. These flows are not applicable for this platform.		
Condition:	The command "flow --show" would list the incompatible flows.		

Defect ID:	DEFECT000564268	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.4.1	**Technology Area:** Configuration Fundamentals
Symptom: With beaconing enabled on ports 18 and 19 on BR5470, LEDs do not illuminate at all.		
Condition: The portbeacon failed on ports not having license, but did not display any failure/error message.		
Workaround: Install license		

Defect ID:	DEFECT000564283	
Technical Severity:	High	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Distance
Reported In Release:	FOS7.4.0	**Technology Area:** FCIP - Fibre Channel over IP
Symptom: FFDC will be generated due to DP crash and host application will see errors.		
Condition: In hybrid mode of 7840, when tunnels (>=10G bandwidth) are bouncing frequently, it can result in incorrect VT pickup for stream creation when tunnel is coming up, thereby causing DP crash.		

Defect ID:	DEFECT000564402	
Technical Severity:	Medium	**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.4.0	**Technology Area:** Configuration Fundamentals
Symptom: Observed FFDC after switch hit a verify error: "VERIFY - Failed expression: pt < C2_NUM_PORTS		
Condition: It happened on an 8G idle switch without other noticeable functional impact.		

Defect ID:	DEFECT000564981	
Technical Severity:	Medium	**Probability:** Medium
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.4.1	**Technology Area:** Configuration Fundamentals
Symptom: A port will never be allowed to be cleared from its quarantined state, if it has been configured to CSCTL mode.		
Condition: The Port should be already quarantined by MAPS action. User should have configured such ports to CSCTL mode and enabled them. Any attempt to clear the quarantine state of this port will fail.		

Recovery:	Disable the ports that fail to clear from quarantined state and then try attempt clearing using sddquarantine --clear option.

Defect ID:	DEFECT000565194	
Technical Severity:	Medium	**Probability:** Medium
Product:	Brocade Fabric OS	**Technology:** Extension
Reported In Release:	FOS8.0.0	**Technology Area:** FCIP - Tunnel Management
Symptom:	Missing extension objects for IPaddress/IProute/TCL/IPSEC policy after deletion of one or more objects of its type after cold /warm boot.	
Condition:	When more than 10 extension config objects are in use for IPaddress/IProute/TCL/IPSEC policy. And customer is planning to delete one or more of these extension objects.	
Workaround:	Please upload the configuration using configupload option to have a backup of the configuration.	
Recovery:	Please use the configdownload option to download an earlier uploaded configuration. Otherwise user will need to recreate them using the CLI again.	

Defect ID:	DEFECT000565352		
Technical Severity:	Medium	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Other	
Reported In Release:	FOS7.4.0	**Technology Area:**	Other
Symptom: CLI firmwarecheck fails with: Validating integrity of firmware on root filesystem Please wait... SM5...GT /sbin/poweroff SM5...GT /usr/bin/poweroff Firmware integrity check failed			
Condition: This issue is applicable only on FC embedded platforms.			
Workaround: This Firmware check failure over the "poweroff" is not harmful since poweroff utility is not supported on embedded platforms.			
Recovery: No recovery needed. This firmwarecheck failure does not affect the switch functionality.			

Defect ID:	DEFECT000565355		
Technical Severity:	High	**Probability:** Medium	
Product: Brocade Fabric OS		**Technology:** Monitoring	
Reported In Release:	FOS7.4.0	**Technology Area:**	Flow Vision
Symptom: The vtap flow would not mirror the frames to the AMP when the AE ports between the switch and AMP is toggled.			
Condition: AE port toggle would result in the scenario.			

Defect ID:	DEFECT000565526		
Technical Severity:	High	**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Monitoring	
Reported In Release:	FOS7.4.0	**Technology Area:**	Bottleneck Detection (legacy)
Symptom: Automatic credit recovery does not occur but AN-1010 alert is still generated, when all transmit credits of a VC are lost on the 16G side of a 16G to 8G/4G ISL connection. 16G to 16G ISL is less likely to see this symptom.			
Condition: Defect 525347 (fixed in FOS7.2.1d, 7.3.1 and 7.4.0) addressed an issue where FE credit recovery interrupt was disabled on 16G side of 16G-8G/4G ISL after a hafailover. However, upgrade from a release without the fix to a release with the fix does not correct the condition upon hot code load. A further blade power cycle or port disable/enabled is needed for the fix to be effective. With defect 565526 fix, the fix will be effective upon code upgrade.			

Recovery:	Either a port disable/enable, (or power cycle of the blade if running FOS with defect 525347) is required to re-enable credit recovery on FE port in a 16G to 8G/4G ISL connection.

Defect ID:	DEFECT000565552		
Technical Severity:	Low	Probability:	Low
Product:	Brocade Fabric OS	Technology:	Traffic Management
Reported In Release:	FOS7.3.0	Technology Area:	FICON
Symptom:	FICUD core file after a null pointer encountered.		
Condition:	It happened when system is low on memory and memory allocation failed during configuration database read.		

Defect ID:	DEFECT000565661	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Security
Reported In Release:	FOS8.0.0	**Technology Area:** Zoning
Symptom: The user might see switch reboot due to termination of zoned.		
Condition: The user attempting to remove the peer zone property member using regular CLI might see the switch crashing.		
Recovery: Users can avoid using regular zone CLIs on peer zones and execute as per zoning cli.		

Defect ID:	DEFECT000565991	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Monitoring
Reported In Release:	FOS7.4.0	**Technology Area:** MAPS - Monitoring and Alerting Policy Suite
Symptom: After running slotstatsclear;statsclear commands, invalid MAPS MAPS-1001 & MAPS 1003 alerts for DEV_LATENCY_IMPACT may be logged, sometimes very delayed from the time stats were cleared.		
Condition: It occurs if stats were cleared on switch.		

Defect ID:	DEFECT000566088	
Technical Severity:	High	**Probability:** High
Product: Brocade Fabric OS		**Technology:** Management
Reported In Release:	FOS7.4.0_CBN	**Technology Area:** Configuration Fundamentals
Symptom: BR6559 with actual DHCP IPv4 addresses reported in OneView as static		
Condition: OneView is not updated on every ipadmin notification. If there is change after bootup, it's not reflected.		

Defect ID:	DEFECT000566644	
Technical Severity: Medium		**Probability:** Low
Product: Brocade Fabric OS		**Technology:** Traffic Management
Reported In Release:	FOS7.4.1	**Technology Area:** Buffer Credit Management
Symptom: User may not see the flow metric collected in the AMP. The flow might be dropped at the source switch connecting AMP, since the source switch has QoS mode disabled.		
Condition: When the QoS mode is disabled in source switch port connecting to AMP, this issue happens.		
Workaround: Ensure that native switch port will have QoS mode enabled all the time.		

Recovery:	Disable the port and try after enabling the QoS mode on the native switch port.

Defect ID:	DEFECT000566650		
Technical Severity: Medium		**Probability:** High	
Product: Brocade Fabric OS		**Technology:** Management	
Reported In Release:	FOS7.4.1	**Technology Area:**	Fibre Channel Services
Symptom:	Observed VERIFY - Failed expression: chassisBuf == NULL on console without any functional impact.		
Condition:	It happens during switch initialization phase without any visible side effects.		

Defect ID:	DEFECT000566666		
Technical Severity:	Medium	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	Extension
Reported In Release:	FOS8.0.1	**Technology Area:**	Extended Fabrics
Symptom:	Error log will report warnings, with code XTUN-1997, stating DP ftrace triggers. DP ftrace will show errors stating: "iapi0762|should have been tcpCbRxQueueHandler()". FCIP and/or IPEX tunnels may go into Degraded or Down state and will not recover. FCIP and/or IPEX I/O may fail and will not recover.		
Condition:	Connecting the BR7840 to a network device transmitting multicast Ethernet 802.2 LLC frames, such as Spanning Tree Protocol BPDU (Bridge Protocol Data Units).		
Recovery:	Reboot of the BR7840.		

Defect ID:	DEFECT000567029		
Technical Severity:	Critical	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Traffic Management
Reported In Release:	FOS7.3.1	**Technology Area:**	Fibre Channel Routing
Symptom:	After code upgrade, communication stopped between 3rd party storage controllers connected to the FCR fabric.		
Condition:	This is observed with device that does not register for FC4 type but trying to fetch devices using port symbolic name. It happens with FOS7.2.x and above.		
Recovery:	Customer has to downgrade to recover. Bounce Ex/E/F port or even reboot switch does not recover from the situation.		

Defect ID:	DEFECT000567083		
Technical Severity:	Medium	**Probability:**	Medium
Product:	Brocade Fabric OS	**Technology:**	Other
Reported In Release:	FOS7.4.1	**Technology Area:**	Other
Symptom:	Front end credit recovery is enabled by default, but after code upgrade, it is shown as disabled in CLI creditrecovmode, even though the feature itself is enabled.		
Condition:	Code upgrade has been performed.		
Workaround:	Run "creditrecovmode --fe_crdloss on" to correct the display issue.		

Defect ID:	DEFECT000568742		
Technical Severity:	High	**Probability:**	High
Product:	Brocade Fabric OS	**Technology:**	Monitoring

Reported In Release:	FOS7.4.0_AMP	Technology Area:	MAPS - Monitoring and Alerting Policy Suite
Symptom: No space left after files in email delivery spool directory fill up the compact flash			
Condition: It happens on BR7840 when there is an email failure and error files are not cleaned up automatically by the system.			
Recovery: Run rm /var/spool/clientmqueue/*			

Defect ID:	DEFECT000569563		
Technical Severity:	High	Probability: High	
Product:	Brocade Fabric OS	Technology: Traffic Management	
Reported In Release:	FOS8.0.0	Technology Area:	Port Bring-up
Symptom:	Ports negotiated to N16 G-Port rather than E-port.		
Condition:	This is specific to 16G FEC port bring up with Loss Less and Trunking. With loss less, the slave port would be included in the trunk before it completes the LR. Occasionally, if FEC is having problems to gain sync, the trunk logic is not properly cleaned-up and the subsequent port bring-up would fail.		
Recovery:	portdisable and portenable to retry		

Open Defects in Fabric OS v7.4.0

This section lists the open defects with Critical, High and Medium Technical Severity as of March 31, 2015 in Fabric OS v7.4.0

Defect ID:	DEFECT000455926		
Technical Severity:	Medium	**Probability:** Low	
Product: FOS		**Technology:** Traffic Management	
Reported In Release:	FOS7.2.0	**Technology Area:**	TIZ - Traffic Isolation Zoning
Symptom:	Devices outside of fail-over disabled TI zone will have portcam entries if there is an alternative path, other than the TI zone, to reach the device in remote switch		
Condition:	Devices that are excluded from connectivity to each other in accordance with the TIZ configuration, are visible to each other in the Name Server. Devices will get the details of the zoned devices and PLOGIs sent to these devices will be dropped, sent to Non TI zoned devices		

Defect ID:	DEFECT000463170		
Technical Severity:	Medium	**Probability:** Low	
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.2.0	**Technology Area:**	Ethernet Interface
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:	DEFECT000470634		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.2.0	**Technology Area:**	Flow Vision: Flow Monitor
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:	DEFECT000471762		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.2.0	**Technology Area:**	Flow Vision: Flow Monitor
Symptom:	Two bi-directional flows monitoring a common subset of traffic do not monitor the		

frame and byte parameters for one of the flows.
Condition: Two bi-directional (option -bidir) flows on the same chip monitoring a common subset of traffic and with one of the device parameters (srcdev or dstdev) not specified.

Defect ID:	DEFECT000487388		
Technical Severity:	High	**Probability:**	Low
Product:	FOS	**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:**	Flow Vision: Flow Generator
Symptom:	Some flow generator flows may get deactivated due to system limitations. As a result, they will not generate frames. The deactivation reason is not available in the flow status output.		
Condition:	A generator flow may get deactivated automatically for the following known reasons: 1. PID/WWN is not available locally and they might have changed on local system (due to domain change). 2. A blade is replaced by another blade that may not have capability of generating frames. 3. Source ID and Destination ID is same. 4. All 39 VCs are currently used by existing flows and no more flows can be created for the same port. 5. A real devices connected to the port. 6. The flow generator is not being supported by new port type.		

Defect ID:	DEFECT000489154		
Technical Severity:	Medium	**Probability:**	Low
Product:	FOS	**Technology:**	Management
Reported In Release:	FOS7.0.0	**Technology Area:**	SNMPv2, SNMPv3 & MIBs
Symptom:	SNMP get/walk against a IPaddresstable (OID1.3.6.1.2.1.4.34) return IP address in ASCII code format. for example 48.49.48.46.48.51.50.46.48.48.48.46.48.52.49 for 010.032.000.041		
Condition:	SNMP applications that query IPAddresstable are affected.		
Workaround:	Convert ASCII code into characters.		

Defect ID:	DEFECT000497518		
Technical Severity:	High	**Probability:**	Low
Product:	FOS	**Technology:**	Traffic Management
Reported In Release:	FOS7.3.0	**Technology Area:**	Port bring up
Symptom:	F-port comes online and remains as G-port, on FC16-64		
Condition:	CP failover during switch disable/enable or slotpoweroff/on a 8510 platform with 8G hosts attached.		
Workaround:	Change speed to fixed 8G using portcfgspeed or change configuration to not		

allow E-port capability using portcfgeport.	
Recovery: Disable and then re-enable host port.	

Defect ID: DEFECT000498330	
Technical Severity: Medium	**Probability:** High
Product: FOS	**Technology:** Monitoring/RAS
Reported In Release: FOS7.3.0	**Technology Area:** Diagnostic Port (D_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:	DEFECT000502603	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Other
Reported In Release:	FOS7.3.0	**Technology Area:** Other
Symptom:	If "supportsave" command is executed through remote fosexec command, before completion of previously executed "supportsave" command then user may not get the message "supportSave is already running from another connection, please retry later" from all the domains (in case of "all" option) or on the specific domain, where the command is in progress. Instead "Command is initiated." message will be displayed.	
Condition:	If user tries to issue "supportsave" through remote fosexec command, while the same command is already in progress, it will not display the expected error message from "supportsave" command.	

Defect ID:	DEFECT000503071	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.3.0	**Technology Area:** Extended Fabrics
Symptom:	FICON Channel(s) takes IFCCs (Interface Control Checks) during init when two parallel 10Gb tunnels are present.	
Condition:	Two 8510-8 Logical Switches joined into a Logical Fabric with Base Fabrics (XISL) FCIP tunnels. The tunnel Configuration are parallel 10Gb tunnels with a single circuits and no emulation.	
Workaround:	Use only 1 FCIP tunnel in the Base Fabric or E-Port ISL links in the Base Fabric.	
Recovery:	Disable one of the FCIP tunnels, leaving just one tunnel available.	

Defect ID:	DEFECT000503761	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.3.0	**Technology Area:** SNMPv2, SNMPv3 & MIBs
Symptom:	SNMP-v3 get/set request will fail with decryption error while SNMP-v3 user privacy protocol set to AES256.	
Condition:	Configuring SNMP-v3 with privacy protocol set to AES256, SNMP-v3 get/set request will fail.	
Workaround:	Use other SNMP privacy protocols like DES and AES128 for SNMP-v3 account.	
Recovery:	Use snmpconfig --default snmpv3 to default the SNMP-v3 configuration and reconfigure it again.	

Defect ID:	DEFECT000507871	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:** Frame Viewer
Symptom:	If framelog is disabled before HAFailover, then after HAFailover framelog will get enabled	
Condition:	The defect will be hit only if the following sequence happens: 1. Install new firmware 2. Change framelog config using framelog --disable 3. HAFailover After HAFailover completes, framelog will show enabled and disabling or changing framelog configuration will not be effective	
Recovery:	Recovery is to do a HAFailover again and restore framelog configuration to default (enabled)	

Defect ID:	DEFECT000509850	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.3.0	**Technology Area:** Web Tools
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:	DEFECT000510618	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:** supportShow
Symptom: When supportsave is invoked from BNA the following raslog is seen on the switch. [SS-1001], 525, SLOT 7 | CHASSIS, WARNING, DCX_155, supportSave's upload operation to host IP address 10.38.162.10 aborted. This indicates that a specific support module file transfer was not complete and failed.		
Condition: [SS-1001], 525, SLOT 7 | CHASSIS, WARNING, DCX_155, supportSave's upload operation to host IP address 10.38.162.10 aborted. The above raslog is seen only when there is a network issue while transferring support files frlom the switch to the remote host. SupportSave would continue to transfer the remaning support files to the remote host.		
Workaround: Verify all arguments provided with supportsave. This could also be because of an intermittent network issue. Supportsave can be retried to collect the data tat was not transferred.		
Recovery: Verify all arguments passed with supportsave and check network connectivity to the remote host. Retry Supportsave		

Defect ID:	DEFECT000511843	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:** Flow Vision: Flow Mirroring
Symptom: The "No of Mirrored Frames" counter may not be equal to the sum of "No of RX		

	Mirrored Frames" counter "and "No of TX Mirrored Frames" counter, when a mirror port is specified in a flow definition.
Condition:	The condition is seen after the "No of Mirrored Frames" counter overflows.

Defect ID:	DEFECT000512534		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.3.0	**Technology Area:**	Flow Vision: Flow Monitor
Symptom:	An FCR fabric flow does not monitor, when SFID and DFID of the flow are on the same ASIC chip.		
Condition:	Create a monitor flow on a FCR backbone E-port using SFID and DFID options, where the SFID and DFID are on the same ASIC chip.		
Workaround:	Create a flow with both SID, DID wildcards, and SFID, DFID wildcards. Example: flow --creat fmon -fea mon -ingrport 20 -srcdev '*' -dstdev '*' -sfid '*' -dfid '*'		

Defect ID:	DEFECT000512746	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:** Flow Vision: Flow Monitor
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:	DEFECT000515289	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.1.2	**Technology Area:** Monitoring and Alerting Policy Suite (MAPS)
Symptom: IPfilter policies not enforced on standby CP, until after hafailover, and may be enforced on IPFC address on VF.		
Condition: This (bypassing IPfilter policies enforcement) is encountered on standby CP.		

Defect ID:	DEFECT000517763	
Technical Severity:	High	**Probability:** Low
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.2.0	**Technology Area:** Firmware upload/download
Symptom: Firmwaredownload fails when using scp to download from the built in BNA server		
Condition: This may be encountered only when scp is used to download from the built in scp server		
Workaround: use ftp or the external server for firmwaredownload		

Defect ID:	DEFECT000523863	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** FICON
Reported In Release:	FOS7.2.0	**Technology Area:** FICON
Symptom: Channel Detected Errors, may see an error indicating a protocol timeout, the CUP continues to run.		
Condition: System Reset Received by CUP		
Recovery: If the CUP stops communicating, vary CUP Path back online (vary offline/online)		

Defect ID:	DEFECT000524532	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.2.1	**Technology Area:** Bottleneck Detection
Symptom:	Unwarranted Bottleneck Detection alerts may be encountered on a switch.	
Condition:	This issue stems from a failing API leading to incorrect computations. When applying consistent latency into the switch, the AN-1003 messages for the specific F_Port show very low affected percentages with a slowdown value of 0.	

Defect ID:	DEFECT000525068	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:** Monitoring and Alerting Policy Suite (MAPS)
Symptom:	MAPS dashboard history shows incorrect value of greater than 100% for RX, TX, UTIL usage.	
Condition:	This can happen when MAPS is monitoring the system.	

Defect ID:	DEFECT000529293	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.3.1	**Technology Area:** Ethernet Interface
Symptom:	IFMODESET command does not change the mode of the interface.	
Condition:	This is seen when the CLI command "ifmodeset" is run in non-interactive mode	
Workaround:	Use interactive mode of this CLI command to set AN or Speed	

Defect ID:	DEFECT000532917	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** System
Reported In Release:	FOS7.2.0	**Technology Area:** CLI
Symptom:	The cli command hareboot, which is designed for performing a non-disruptive reboot of a non-disruptive switch is available to admin level user on a director class switch.	
Condition:	hareboot can be run on a Director class switch.	

Defect ID:	DEFECT000533422	
Technical	High	**Probability:** Low

Severity:	
Product: FOS	**Technology:** Traffic Management
Reported In Release: FOS7.2.1	**Technology Area:** FC-FC routing
Symptom: Fabric router switch may observe panic upon receiving invalid frame from edge switch.	
Condition: This happens when fabric router running FOS7.2.x or earlier receives unknown Fibre Channel Common Transport (FC_CT) request from edge switch with zero sized payload. This does not apply to FOS v7.3.x or later.	
Recovery: Disable edge switch port and upgrade.	

Defect ID: DEFECT000534748	
Technical Severity: Medium	**Probability:** High
Product: FOS	**Technology:** System
Reported In Release: FOS7.4.0	**Technology Area:** CLI
Symptom: The switch names longer than 15 characters will be truncated to 15 characters in the switch name field of "islshow" output.	
Condition: When user executes "islshow" CLI command, user will notice that only up to 15 characters of switchname get displayed.	

Defect ID: DEFECT000536765	
Technical Severity: High	**Probability:** Medium
Product: FOS	**Technology:** Traffic Management
Reported In Release: FOS7.2.1	**Technology Area:** Name Server / Zoning
Symptom: Switch panics and becomes non-responsive as a result of a large number of ports and devices coming online and logging in concurrently.	
Condition: Uncommon scenario that can happen when concurrent ports and devices coming online and logging in keeping the switch CPU too busy to keep up processing	
Recovery: Powercycle or reboot the switch	

Defect ID:	DEFECT000537487		
Technical Severity:	Medium	**Probability:**	Medium
Product:	FOS	**Technology:**	Management
Reported In Release:	FOS7.4.0	**Technology Area:**	Web Tools
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:	DEFECT000537498		
Technical Severity:	Medium	**Probability:**	Low
Product:	FOS	**Technology:**	Management
Reported In Release:	FOS7.4.0	**Technology Area:**	Web Tools
Symptom:	Switch hardware view shows the blade status LED as black instead of amber, if the FC16-64 port blade is in faulty state.		
Condition:	Switch hardware view shows the blade status LED as black when the FC16-64 port blade goes to faulty state.		

Defect ID:	DEFECT000539134		
Technical Severity:	Medium	**Probability:**	Low
Product:	FOS	**Technology:**	Traffic Management
Reported In Release:	FOS7.1.1	**Technology Area:**	Routing
Symptom:	When observing porterrshow 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. - 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:	DEFECT000539584		
Technical Severity:	High	**Probability:**	Low
Product:	FOS	**Technology:**	System
Reported In Release:	FOS7.4.0	**Technology Area:**	Optics

Symptom:	2KM QSFP ICL ports may see link errors such as CRC and FEC errors. The link errors may result in credit or frame loss and trigger link reset.
Condition:	Errors may be seen after any conditions that causes the port to be toggled, such as a portdisable or switchdisable.
Recovery:	Clear the stats. Toggle the port and check for link errors.

Defect ID:	DEFECT000541425		
Technical Severity:	High	Probability:	Medium
Product:	FOS	Technology:	Monitoring/RAS
Reported In Release:	FOS7.4.0	Technology Area:	Logging
Symptom:	"syslog-ng: no process killed" message is displayed on console.		
Condition:	This could happen when some syslog activity requires syslog daemon to be restarted. There is no impact to syslog functioanlity and in all cases syslog daemon was seen to work properly.		
Recovery:	No recovery required as there is no functionality loss.		

Defect ID:	DEFECT000541427	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.0.1	**Technology Area:** POST - Power-on Self-Test
Symptom: switch will panic when the user runs portloopback tests within one hour after hafailover.		
Condition: This would happen only on C3 platforms.		
Workaround: Run portloopback/diag tests 1 hour after hafailover.		

Defect ID:	DEFECT000542995	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Virtualization
Reported In Release:	FOS7.2.1	**Technology Area:** Access Gateway
Symptom: Customer encounters a panic when enabling access gateway through webtools and then running commands through the CLI subsequently.		
Condition: Enable AG mode in the switch through webtools.		
Recovery: Auto-recovery after panic dump.		

Defect ID:	DEFECT000546095	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Virtualization
Reported In Release:	FOS7.2.0	**Technology Area:** Virtual Fabrics
Symptom: Switch reboot occurred during simultaneous invocation of lfcfg command.		
Condition: Occurs when lfcfg is invoked simultaneously by different users.		
Workaround: Refrain from invoking lfcfg command simultaneously.		

Defect ID:	DEFECT000546417	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.3.1	**Technology Area:** SNMPv2, SNMPv3 & MIBs
Symptom: After upgrade to FOS 7.3.1, SNMP traps would not be seen in BNA master log.		
Condition: If switch is configured with IPFC address and if we change IP address of a switch, the traps are sent using IPFC address instead of chassis/switch IP address.		
Recovery: CP failover after both CPs migrated to new firmware or after IP address change.		

Defect ID:	DEFECT000546719		
Technical Severity:	High	**Probability:** Low	
Product:	FOS	**Technology:** Traffic Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	FC-FC routing
Symptom:	Proxy creation failure may be observed along with raslog message WARNING FCR-1021 00 0x0004 Local LSAN device entries exhausted while updating LSAN zone %s device entries.		
Condition:	In a large Meta SAN, if 10,000 proxy devices already exist and there is an attempt to add more proxy devices, the proxy device creation will be failed.		
Recovery:	Run fcrproxyconfig CLI command to determine the total number of proxy devices in the switch. If the total count shows 10,000 proxy devices, use "fcrproxyconfig -r" to remove some proxy devices.		

Defect ID:	DEFECT000546724	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** FICON
Reported In Release:	FOS7.4.0	**Technology Area:** FICON CUP
Symptom: Observed " -- FICU_DGB_MSG_001(D) -- Function - ficu_api_deliver_msg_from_remote_CUP() FICU Error RC(-14)" on the console.		
Condition: Normal switch operation, the message is seen when the IPC system is unable to deliver an IPC message to FICUD.		
Recovery: No recovery necessary. No loss of functionality, it is an informational non-essential message		

Defect ID:	DEFECT000546994	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.3.1	**Technology Area:** Brocade Network Advisor
Symptom: Supportsave initiated from BNA fails, using same credentials from CLI, supportsave works		
Condition: This would happen only when special character is used		
Workaround: Configuring BNA FTP password with no special character.		

Defect ID:	DEFECT000547173	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.4.0	**Technology Area:** Logging
Symptom: On chassis based systems, when syslog is configured, configured server details are not reflected on the standby CP.		
Condition: Applicable only on chassis based systems when syslog server is configured only on active CP.		
Workaround: Configure the syslog server details on both active and standby CPs.		
Recovery: Configure the server details after HA to ensure that the logs are updated.		

Defect ID:	DEFECT000547349	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** System
Reported In Release:	FOS7.4.0	**Technology Area:** CLI

Symptom:	Powering on a slot which had quarantined port doesn't result in the port getting moved to quarantined state, until an hafailover is done
Condition:	Powering on the slot which has quarantined port
Workaround:	Remove ports from quarantined list before slotpoweroff using "sddquarantine -- clear <slot/port>"

Defect ID:	DEFECT000547835		
Technical Severity:	High	Probability:	Medium
Product:	FOS	Technology:	Monitoring/RAS
Reported In Release:	FOS7.4.0	Technology Area:	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	FOS does not generate MAPS-1010 RASLOG meessage if BNA fences the F_port.		
Condition:	It is applicable if the switch or fabric is monitored by BNA and port decommission is configured and enabled. If BNA is unable to decommission an F-Port it then fences the port as a fall back action and in this case MAPS-1010 RASLOG message is not generated. Note, port decommission action always fences associated port so, if BNA fails to decommission F_port then it fences the port.		

Defect ID:	DEFECT000547921	
Technical Severity:	High	**Probability:** Low
Product: FOS		**Technology:** Virtualization
Reported In Release:	FOS7.3.1	**Technology Area:** Access Gateway
Symptom:	In an AG fabric or NPIV environment, device is not found or HBA detects SCSI command timeout and fabric switch stops routing AG switch/NPIV device traffic.	
Condition:	This may occur when fabric switch is configured for session based zoning and a device connected to AG switch or an NPIV device, that is not in any zone database, is enabled. This causes all traffic going through the same fabric switch F-port to be disrupted. This issue only impacts 16G fabric switch running FOSv7.4.0, FOSv7.3.1 and FOSv7.2.1d	
Workaround:	Use hard zoning on fabric switch, or add the device into zoning database first before bringing it online.	
Recovery:	Upon hitting this issue, the user may bring up ANY zoned member on AG switch or NPIV, that is using the fabric switch F-Port, to recover. .	

Defect ID:	DEFECT000548153	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.4.0	**Technology Area:** Flow Vision: Flow Generator
Symptom:	Flow Generator traffic through the VE port may affect real I/O traffic on the same or other VE ports.	
Condition:	Flow Generator traffic through the VE port with real I/O traffic on the same or other VE ports.	
Workaround:	Flow Generator traffic over VE port is supported only if no other traffic is running on any of the VE ports on that blade or switch platform.	

Defect ID:	DEFECT000548700	
Technical Severity:	High	**Probability:** Low
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.4.0	**Technology Area:** Flow Vision: Flow Monitor
Symptom:	A learning flow created on an egress port shows frame size as "--" after multiple monitoring resets or the total frame size is sometimes off by 8 bytes.	
Condition:	User has a learned monitoring flow created on the egress port.	
Recovery:	Deactivate and reactivate the flow.	

Defect ID:	DEFECT000548721

Technical Severity:	High	Probability: Low	
Product: FOS		Technology: Monitoring/RAS	
Reported In Release:	FOS6.4.3	Technology Area:	Fabric Watch
Symptom: A E-port is fenced even after port fencing has been disabled.			
Condition: This issue would only happen if E-port and port classes are configured with the same thresholds for ST area. Disable port fence did not take care of the earlier fenced E-port properly under this condition.			
Workaround: Use the E-Port only threshold to monitor the State change of ISLs alone OR to monitor all the ports in general, choose a different threshold value for E-port threshold and port class threshold (probably E-Port threshold + 5).			
Recovery: Bouncing the port			

Defect ID:	DEFECT000548978		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.4.0	**Technology Area:**	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	During the firmware upgrade from v7.3.0 to v7.4.0, the MAPS Back-End port BAD_OS rule violations are reported for every port in the AP blades (FX8-24). The errors happen and are reported at the end of the firmware upgrade on both CP's.		
Condition:	Topology: If there are any AP blades in the chassis, the BAD_OS errors may be seen after the firmware upgrade completes and the MAPS rules monitoring these counters will get triggered.		
Recovery:	None of the blades in the switch, or VE ports in the AP blades get affected. So no recovery procedure is needed when the problem is seen.		

Defect ID:	DEFECT000549030		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.4.0	**Technology Area:**	Diagnostic Port (D_Port)
Symptom:	Dport test between two FC16-64 blades fail.		
Condition:	If Dport on demand, or dynamic Dport or static Dport is in effect, the Dport test between two FC 16-64 blades may fail.		
Workaround:	Disable Dport configuration and do not allow dynamic or on demand Dport to run.		
Recovery:	Use "portdporttest --exit" to exit failed Dport test. Disable Dport configuration and do not allow dynamic or on demand Dport to run. Toggle the port.		

Defect ID:	DEFECT000549140		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:**	Security
Reported In Release:	FOS7.4.0	**Technology Area:**	Security Vulnerability
Symptom:	CVE-2013-4548: With AES-GCM configured, it's possible to bypass intended ForceCommand and login-shell restrictions via packet data that provides a crafted callback address. CVE-2014-2532: A remote user can modify AcceptEnv variable to bypass intended environment variable restrictions		
Condition:	CVE-2013-4548 : Configurations where SSH ciphers use AES GCM for SSH connection		

CVE-2014-2532: Use of root account and editing of the SSH configuration file.

Defect ID:	DEFECT000549168		
Technical Severity:	High	**Probability:**	High
Product: FOS		**Technology:**	Distance
Reported In Release:	FOS7.4.0	**Technology Area:**	Extended Fabrics
Symptom:	If any VE ports are disabled non-persistently before a non-disruptive firmaredownload is performed on 7840 then, those VE ports will come up as online after the non-disruptive firmwaredownload		
Condition:	Non-disruptive firmwaredownload on 7840 to FOS 7.4.0 where VE ports have been disabled non-persistently.		
Workaround:	Persistently disable any disabled VE ports prior to a non-disruptive firmwaredownload.		
Recovery:	Disable the VE port(s) after the non-disruptive firmwaredownload. Persistently disabled VE ports are not affected.		

Defect ID:	DEFECT000549278		
Technical Severity:	Medium	**Probability:**	High
Product:	FOS	**Technology:**	Distance
Reported In Release:	FOS7.4.0	**Technology Area:**	FCIP
Symptom:	The 'portshow lan-stats --per-flow --tcp' command incorrectly reports 0 for the TCP TX bytes field even when LAN traffic is active.		
Condition:	Issuing the 'portshow lan-stats --per-flow --tcp' command.		

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

Defect ID:	DEFECT000549434		
Technical Severity:	Medium	**Probability:**	Medium
Product:	FOS	**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.4.0	**Technology Area:**	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	Moving an F-Port from one logical switch to another logical switch causes the port to be marked as slow drain.		
Condition:	After a latency is induced on a port, the port has to be moved to a different logical switch and enabled within 1 minute.		
Workaround:	If transient latency is seen on a port, wait for 1 minute before moving the port to another logical switch.		

Defect ID:	DEFECT000549477		
Technical Severity:	High	**Probability:**	High
Product:	FOS	**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.4.0	**Technology Area:**	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	MAPS might generate a transient MAPS-1021 RASLOG message to indicate switch in Critical state due to faulty port rule/thresholds has violated during CEC testing. Effect of this RASLOG does not stay very long (less than few minutes) and MAPS generates a healthy message.		

Condition:	This happens during CEC IML test.

Defect ID:	DEFECT000549485		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.4.0	**Technology Area:**	Tunnel Management
Symptom:	ESM-1101 Error message seen with the following signature: hclLog.h:0 ESM MSG Status:DP:1:DELETE STARTED:STAT:0x4.		
Condition:	This can occur during a tunnel deletion or portcfgdefault on a VE port operation.		
Recovery:	The condition is self-recovered. The command is retried internally to ensure cleanup.		

Defect ID:	DEFECT000549856	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** System
Reported In Release:	FOS7.4.0	**Technology Area:** CLI
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:	DEFECT000550089	
Technical Severity:	High	**Probability:** Medium
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.4.0	**Technology Area:** Flow Vision: Flow Monitor
Symptom:	Predefined learn flow statistics does not increment in a Backbone-to-Edge setup after monitoring traffic for some time.	
Condition:	Predefined monitor learn flow is active with continuous traffic.	
Recovery:	Deactivate and reactivate the predefined learn flow.	

Defect ID:	DEFECT000550437	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.4.0	**Technology Area:** FCIP
Symptom:	Inconsistent tunnel state between the 'portshow fciptunnel --circuit' command and the 'portshow fciptunnel --qos --circuit' command when one of the circuits under the tunnel is disabled. In the non-QoS display, the tunnel shows in a degraded state. In the QoS display, the tunnel shows up. This is only a state reporting issue and traffic will remain running over the other circuits that are in an online state.	
Condition:	This will occur when any circuits under a tunnel are administratively disabled and when all other circuits are in an online state.	

Defect ID:	DEFECT000550519	
Technical Severity:	High	**Probability:** Medium
Product: FOS		**Technology:** Distance
Reported In	FOS7.4.0	**Technology** FCIP

Release:	Area:
Symptom: Periodic smart data collection will not happen for the ports with SFP installed on 7840 and the sfpshow command will list them as "Not Available"	
Condition: Periodic smart data collection will be skipped if the CPU load has exceeded its threshold value	
Recovery: Users can issue the force read option "sfpshow <slot/port> -f" to read the smart data values.	

Defect ID:	DEFECT000550520	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.4.0	**Technology Area:** FCIP
Symptom: Switchshow displays LAN port as online when no Ethernet cable is attached in 7840		
Condition: Switchshow is run on 7840 where once present Ethernet cable has been removed for a LAN port		
Recovery: Disable and enable the affected port		

Defect ID:	DEFECT000550554		
Technical Severity:	Medium	**Probability:** Low	
Product: FOS		**Technology:** FICON	
Reported In Release:	FOS7.4.0	**Technology Area:**	FICON CUP
Symptom:	With CUP Diagnostics and zOS HealthChecker, a port that reports a SlowDrain or Bottleneck Detected event, may persist in reporting this state, even though the condition has cleared.		
Condition:	The CUP may persist in reporting this port performance problem, when actually, the problem has been cleared.		
Recovery:	Vary the port offline and online or for E-ports, disable and enable the port.		

Defect ID:	DEFECT000550634		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	Firmware upload/download
Symptom:	firmwarecleaninstall with sftp option fails		
Condition:	sftp protocol is not supported for this CLI however, the CLI usage help indicates that it is supported.		
Workaround:	Use scp or ftp option to run firmwarecleaninstall		

Defect ID:	DEFECT000550681		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.4.0	**Technology Area:**	FCIP
Symptom:	7840 becomes non-operational (faulty).		
Condition:	A 7840 becomes non-operational (faulty) as a result of another firmwaredownload being run while a previous non-disruptive firmwaredownload is in progress.		
Workaround:	Do not initiate another firmwaredownload while a previous non-disruptive firmwaredownload is already in progress.		
Recovery:	Reboot the 7840.		

Defect ID:	DEFECT000550920		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.4.0	**Technology Area:**	Equipment Status

Symptom:	7800 gets stuck in faulty state after upgrade.
Condition:	Upgrade 7800 from v7.3.1 -> v7.4.0_bld43.
Recovery:	Powercycle the switch

Defect ID:	DEFECT000551057		
Technical Severity:	Medium	Probability:	Low
Product:	FOS	Technology:	Monitoring/RAS
Reported In Release:	FOS7.4.0	Technology Area:	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	"sddquarantine --clear all" clears the SDD port list but "sddquatantine --show" indictaes that it does not delete the local quarantine devices in the device fabric list.		
Condition:	Devices continue to appear in the fabric list after "sddquarantine --clear all" has been run to clear the quarantined ports.		
Recovery:	portdisable and portenable the local ports which are shown in quarantined state in the fabric list		

Defect ID:	DEFECT000551522	
Technical Severity:	High	**Probability:** Low
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.4.0	**Technology Area:** Tunnel Management
Symptom:	At the start of non-disruptive firmware download[HCL] on VE ports if there is a Tunnel outage and the tunnel comes online later, it can result in DP-Recovery and all VEs on that DP will be disrupted.	
Condition:	Tunnel outage at the start of HCL	

Defect ID:	DEFECT000551784	
Technical Severity:	High	**Probability:** Low
Product: FOS		**Technology:** System
Reported In Release:	FOS7.4.0	**Technology Area:** Component
Symptom:	MetaSAN with backbone containing two FCR switches that are bound together by means of FCR binding, adding a new backbone switch without any binding results in the new backbone switch learning the zones from the FCR bound switches	
Condition:	Add a new backbone switch without any binding to a backbone that contains FCR switches that are bound together by means of FCR binding.	
Workaround:	Bind the newly added FCR switch to itself. That way it is present in the FCR binding matrix and will reject any zone updates sent from other FCR bound switches.	

Defect ID:	DEFECT000551787	
Technical Severity:	High	**Probability:** Medium
Product: FOS		**Technology:** Traffic Management
Reported In Release:	FOS7.4.0	**Technology Area:** Routing
Symptom:	IO is disrupted after HA Failover for FCR imported devices that are configured for Staged Pair Matching.	
Condition:	In an FCR setup with Staged Pair Matching configured	
Recovery:	Wait approximately 6 minutes for FCR to re-import the devices after the HA Failover	

Closed with Code Change in Fabric OS v7.4.0

This section lists the defects with Critical, High and Medium Technical Severity closed with a code change as of March 31, 2015 in Fabric OS v7.4.0.

Defect ID:	DEFECT000417089		
Technical Severity:	Medium	**Probability:** Medium	
Product: FOS		**Technology:** Security	
Reported In Release:	FOS7.1.0	**Technology Area:**	Fabric Authentication
Symptom:	Invalid VF numbers can be specified in TACACS+		
Condition:	If 0 is configured for the role list in tacacs/radius/ldap server configuration, userconfig --show will show '0' also in the role list details.		
Workaround:	Avoid configuring the value '0' for role list		

Defect ID:	DEFECT000420903		
Technical Severity:	Medium	**Probability:** Medium	
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.0.0_pha	**Technology Area:**	Web Tools
Symptom:	Graphic for external management port is lit with no connection for 6547 switch.		
Condition:	When RJ45 cable is removed from the switch faceplate, Webtools still shows external management port with solid green LED.		

Defect ID:	DEFECT000431369		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.0.2	**Technology Area:**	SNMPv2, SNMPv3 & MIBs
Symptom:	Mib browser displays ascii-hex of populated fcportflag value. For example it displays "30" for 0, "31" for 1, where expected display is "0", "1".		
Condition:	This is seen only for the MIB display of fcportflag.		

Defect ID:	DEFECT000436921		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** System	
Reported In Release:	FOS6.3.1_dcb	**Technology Area:**	CLI
Symptom:	Console may hang, leading to switch Panic from unexpected termination of daemons from Out of Memory condition.		
Condition:	This may be observed while performing supportsave or other CLI management operations		

Defect ID:	DEFECT000453829	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Traffic Management
Reported In Release:	FOS7.2.0	**Technology Area:** Routing
Symptom:	Traffic could be extra slow with BufOpMode enabled	
Condition:	For the FC8-32 and FC8-48 port blade, routing from an E-Port to an F-Port on the same ASIC	
Workaround:	slotpoweroff then slotpoweron.	

Defect ID:	DEFECT000457373	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Virtualization
Reported In Release:	FOS7.0.2	**Technology Area:** Access Gateway
Symptom: BR5480 embedded switch displays invalid message without functional impact.		
Condition: Invalid message "Request F-N Port Mappings for Access Gateway Change from SW" is observed while running in native switch mode.		
Recovery: No impact to switch functionality.		

Defect ID:	DEFECT000472607	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** System
Reported In Release:	FOS7.2.0	**Technology Area:** CLI
Symptom: Brocade 6510 switch may become inaccessible via SSH and/or Telnet when a firmware upgrade of the switch initiated through Brocade Network Advisor results with "failed to enforce new iptable rules" error message,.		
Condition: It's a race condition caused by an existing ineffective file locking mechanism.		
Workaround: Activating (from console) a new policy with rules of default active policy will restore access to the switch. such as: Ipfilter –clone new_rules –from default_ipv4 Ipfilter –activate new_rules		

Defect ID:	DEFECT000473541	
Technical Severity:	High	**Probability:** Low
Product: FOS		**Technology:** System
Reported In Release:	FOS6.4.3	**Technology Area:** CLI
Symptom: Large number of threads in environmental daemon (emd) cause system to run out of memory and panic.		
Condition: Over 100 portshow CLIs are concurrently running on a director.		
Workaround: Limit the number of concurrent CLIs to under 50 at a time.		

Defect ID:	DEFECT000479904	
Technical Severity:	High	**Probability:** Low
Product: FOS		**Technology:** Management
Reported In Release:	FOS6.4.3	**Technology Area:** Firmware upload/download

Symptom:	Firmware Migration might result in a switch panic due to a weblinker termination
Condition:	In rare cases, a firmware download might cause a weblinker termination followed by a panic
Recovery:	In chassis base system reboot the standby CP. In a pizza box, reboot the switch.

Defect ID:	DEFECT000483272		
Technical Severity:	High	Probability:	Low
Product:	FOS	Technology:	Other
Reported In Release:	FOS7.3.0	Technology Area:	Other
Symptom:	Management applications may not recognize switches with new OUIs.		
Condition:	Switches shipped with new OUIs 00-14-38, A0-D3-C1, and 88-94-71		

Defect ID:	DEFECT000483437	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.2.0	**Technology Area:** Web Tools
Symptom:	On Web Tools, the cascaded switch Icon in Fabric Tree gets greyed out and the pop up shows the status as "Unmonitored".	
Condition:	This issue occurs when a switch is running FOS version v7.2.0 or higher while the remote switch is running FOS version v7.1.x or lower, and one of switches has VF enabled while the other switch has VF disabled. This issue will not occur if all switches are running FOS version v7.2.0 or higher, regardless of whether VF is enabled or disabled.	
Workaround:	Run same FOS version on all switches in the fabric.	

Defect ID:	DEFECT000484261	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.2.1	**Technology Area:** Frame Monitoring
Symptom:	CLI command "sloterrshow" reports timeout frame. However, "framelog –show" does not capture the timed out frame.	
Condition:	This discrepancy with respect to timeout frames maybe noted when comparing outputs of CLI commands "sloterrshow" and "framelog –show"	

Defect ID:	DEFECT000484766	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.2.1	**Technology Area:** FCIP
Symptom:	Port persistent disable feature doesnt work for GE ports on FX8-24 across any reboot or hareboot operations,	
Condition:	GE ports on FX8-24 are not persistently disabled across a reboot, hareboot, or firware download operations.	
Recovery:	Use FOS CLI to manually disable GE ports	

Defect ID:	DEFECT000484991	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.2.0_hit	**Technology Area:** Web Tools

Symptom:	Webtools displays internal ports without server blades as blinking amber LED
Condition:	When the internal ports are not connected to server blades.
Recovery:	Cosmtic issue where WebTools should not display color LED if server blade is not installed.

Defect ID:	DEFECT000485217		
Technical Severity:	Medium	**Probability:** Medium	
Product:	FOS	**Technology:** Security	
Reported In Release:	FOS7.3.0	**Technology Area:**	Fabric Authentication
Symptom:	On the 7840 platform, if the bannerSet message is 1022 character or more, the CLI hangs. Banner less than 1020 can be set without any issue.		
Condition:	For 7840 platform only and if bannerSet message size is greater than 1021 characters		
Workaround:	Use a banner size less than 1021 characters		
Recovery:	< ctrl-c> is required to exit bannerSet		

Defect ID:	DEFECT000488832	
Technical Severity:	High	**Probability:** Low
Product: FOS		**Technology:** Virtualization
Reported In Release:	FOS7.1.1	**Technology Area:** Virtual Fabrics
Symptom: During testing, embedded switch intermittently fails after reboot.		
Condition: After high reboot count, with less than 127 targets, switch will occasionally not respond to name server queries.		

Defect ID:	DEFECT000489311	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Management
Reported In Release:	FOS6.4.1	**Technology Area:** User Accounts
Symptom: Running "ifconfig eth0 down" on the console may lead to a panic and reboot of the switch.		
Condition: This may occur when the switch becomes unaccessible via the management port and the CLI command "ifconfig eth0 down" is executed from the serial console		

Defect ID:	DEFECT000490648	
Technical Severity:	Low	**Probability:** Medium
Product: FOS		**Technology:** Other
Reported In Release:	FOS7.1.1	**Technology Area:** Other
Symptom: Admin role is not authorized to invoke the "errdump –all" command.		
Condition: Fabric OS Command Reference was not indicating that the "errdump –all" command displays messages for the entire chassis for a user with chassis permissions.		

Defect ID:	DEFECT000491910	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.2.1	**Technology Area:** Logging
Symptom: SNMP query connUnitPortStatCountBBCreditZero or CLI portstats64show could display an unexpected large value for tim64_txcrd_z counter in a very brief time		
Condition: This issue will be seen when there is a FC traffic slowness in fabric and statistic counter wraps.		
Workaround: Customer could use portstatsshow command to get the correct counter value.		

Defect ID:	DEFECT000492704		
Technical Severity:	High	**Probability:**	High
Product: FOS		**Technology:** Traffic Management	
Reported In Release:	FOS6.4.3	**Technology Area:**	FC-FC routing
Symptom: "CRC error with good EOF" errors detected and may cause credit loss.			

Condition: This may be seen on DCX-4S:
    1. With FC8-64 blades installed in
        - Slot 7 ports 155, 76 or
        - Slot 2 port 154.
    2. Core blade 3/19,3/26, 6/70			

Recovery: Auto Tuning/Manual Tuning			

Defect ID:	DEFECT000493407	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.3.0	**Technology Area:** SNMPv2, SNMPv3 & MIBs
Symptom: By default FOS SNMP will allow SNMP v1/v3 SET operation.		
Condition: FOS SNMP write access is enabled by default.		
Workaround: User have to use snmpconfig –set seclevel command to change the security level to "no access" in order to block SNMP SET option.		

Defect ID:	DEFECT000494270	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Security
Reported In Release:	FOS7.1.0	**Technology Area:** Fabric Authentication
Symptom: Customer might see devices reported as unauthorized when they try to login to a switch even when DCC policy is configured properly. Sometimes when the DCC policy is activated, some of the ports might bounce.		
Condition: The WWN that starts with "80" has the most possibility to hit this issue. The issue might also be seen when the device WWNs starts with "C0", "50", "20", or "10".		
Workaround: Avoiding the device WWN that starts with "80" or greater from DCC policy would resolve the issue.		

Defect ID:	DEFECT000497464	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Other
Reported In Release:	FOS7.3.0	**Technology Area:** Other
Symptom: 8G port blade displays auto max speed 16G when previous port blade was 16G and had auto max speed configured.		
Condition: A 16G port blade configured with auto max speed or 16G is blade swapped with an 8G blade.		
Workaround: Modify the port configuration to auto speed negotiate on the 16G port blade before blade swap with an 8 G port blade/		
Recovery: Modify the port configuration to a supported speed using portcfgspeed CLI or reset the port to default auto speed negotiation (ASN) using portcfgdefault CLI.		

Defect ID:	DEFECT000497810	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Monitoring/RAS

Reported In Release:	FOS7.1.1	Technology Area:	Diagnostic Port (D_Port)
Symptom: Core blade faults when dport tests are being run on ICL ports and ports are disabled.			
Condition: Disable port under testing			
Workaround: Don't disable ports when dport tests are in progress.			

Defect ID:	DEFECT000498723		
Technical Severity:	Medium	**Probability:** Low	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.3.0	**Technology Area:**	Port Log
Symptom: Portperfshow does not display traffic for E-Port while portdportesting is running.			
Condition: When portdporttest is running on ports.			
Workaround: Don't run portperfshow when a portdporttest is running.			

Defect ID:	DEFECT000499012		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:**	Management
Reported In Release:	FOS7.3.0	**Technology Area:**	Platform Services
Symptom:	Unable to stop the autoboot using the ESC key to get into command shell.		
Condition:	This is encountered during boot up, where the escape sequence key is not functioning properly.		

Defect ID:	DEFECT000499177		
Technical Severity:	High	**Probability:**	Low
Product: FOS		**Technology:**	Other
Reported In Release:	FOS7.3.0	**Technology Area:**	Other
Symptom:	Some hosts from an edge fabric may fail to discover the LUNs in another edge fabric.		
Condition:	After doing a switchdisable of all the switches in the edge fabric and doing simultaneous switchenable of the disabled switches.		
Recovery:	Toggle the port, host and target. If condition persists, switchdisable/enable the switch.		

Defect ID:	DEFECT000499356		
Technical Severity:	Medium	**Probability:**	High
Product: FOS		**Technology:**	Management
Reported In Release:	FOS7.3.0	**Technology Area:**	SNMPv2, SNMPv3 & MIBs
Symptom:	CLI command "snmptraps --block/unblock -port [slot]port	ALL" appears to permit configuration for portsbeyond the valid range for a switch, without flagging any errors.		
Condition:	This issue is seen when attempting to configure snmptraps for ports beyond the valid range for a given switch. No Error messages are shown to the user. However the problem itself is benign, with no functionality impact.		

Defect ID:	DEFECT000499566		
Technical Severity:	Medium	**Probability:**	Low
Product: FOS		**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:**	Flow Vision: Flow Generator
Symptom:	The 'flow --delete all' command will deactivate all the predefined flows in the system.		

Condition: The 'flow --delete all' command will delete all the user defined flows after a confirmation but also has the side effect of deactivating all predefined flows.	
Workaround: Individually delete user defined flows instead of using --delete all.	

Defect ID:	DEFECT000499809		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.3.0	**Technology Area:**	Web Tools
Symptom:	In a chassis with large scale of EX-ports, user may occasionally see Weblinker subsystem restart.		
Condition:	If there are large scale of EX-ports configured in chassis, user may see Weblinker restart due to timeout. However this is a very rarely to happen.		

Defect ID:	DEFECT000500085	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.2.0	**Technology Area:** NTP - Network Time Protocol
Symptom: Switches in the fabric are unable to communicate with the NTP server.		
Condition: When the BR5647 is insert into the embedded chassis or when the chassis CMM is rebooted, the CMM will push the NTP network configuration for internal communication to external fabric wide.		
Recovery: Reconfigure NTP address in any other non-embedded switch in the fabric.		

Defect ID:	DEFECT000500362	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Other
Reported In Release:	FOS7.3.0	**Technology Area:** Other
Symptom: Customer may see QOS High/Low priority enabled ports default to Medium priority after hareboot on switches.		
Condition: The priority change will occur while processing sync dump, if Special Zones (Redirect or Traffic Isolation) are present in the database along with QOS Zone.		
Recovery: To recover the correct priority, execute the cfgsave and cfgenable commands. If the priority is not restored, execute the cfgdisable and cfgclear commands, and then re-create the same zone configuration and enable zone configuration. If both steps fail, reboot the switch to recover the correct priority.		

Defect ID:	DEFECT000500423	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Traffic Management
Reported In Release:	FOS7.3.0	**Technology Area:** Routing
Symptom: Routing Queries issued through MVS may not return the correct set fabric paths for the identified SID/DID pair when DBR is used. Port metrics for all E-Port PDB's returned for a Diagnostic Query may exhibit information that is unrelated to the specified SID/DID pair.		
Condition: 1. FMS enabled 2. FICON . MVS environment, with switch managed by host 3. DBR Routing Policy configured in the fabric.		

Defect ID:	DEFECT000500567	
Technical	High	**Probability:** Low

Severity:	
Product: FOS	**Technology:** Traffic Management
Reported In Release: FOS7.3.0	**Technology Area:** Routing
Symptom: Customer may see traffic disruption if ICL connections are not symmetric when 8G edge blade is present.	
Condition: When 8G edge port blade is present and ICL connections are not symmetric (which is a recommended use case).	
Workaround: Avoid configuring asymmetric ICL connections.	
Recovery: Reconfigure the ICL connection as symmetrical.	

Defect ID:	DEFECT000501658	
Technical Severity: High	**Probability:** High	
Product: FOS	**Technology:** Management	
Reported In Release: FOS7.0.1	**Technology Area:**	NTP - Network Time Protocol
Symptom: Switch panics after time server daemon failed to sync time with server.		
Condition: This may occur from an Ethernet network issue in the fabric resulting in a failure to resolve DNS names into IP addresses.		
Workaround: Use IP address instead of DNS server name in clock server configuration. Alternately do not configure DNSconfiguration in switch.		

Defect ID:	DEFECT000502340	
Technical Severity: Medium	**Probability:** Low	
Product: FOS	**Technology:** Monitoring/RAS	
Reported In Release: FOS7.3.0	**Technology Area:**	Flow Vision: Flow Generator
Symptom: It's possible to create and activate a WWN based generator flow on an E-port which is neither a source nor destination device and will generate frames.		
Condition: Creation of generator flow on an E-port with either source or destination device different from the ingress or egress port. For a generator flow, if both source device and ingress port are specified, then they should point to the same port. Similarly for destination device and egress port.		

Defect ID:	DEFECT000503900	
Technical Severity: Medium	**Probability:** Low	
Product: FOS	**Technology:** Monitoring/RAS	
Reported In Release: FOS7.3.0	**Technology Area:**	Flow Vision: Flow Generator
Symptom: Firmware downgrade to pre-FOS7.3.0 releases will fail with "simport enabled" message, when a slot with SIM port is powered off or empty.		
Condition: The issue will happen only when a slot having SIM ports is empty or powered off and firmware downgrade is initiated.		
Workaround: If possible, remove SIM port configurations before blade removal or powering down.		
Recovery: Reinsert or power-on the blade and remove the SIM port configurations.		

Defect ID:	DEFECT000503942	
Technical Severity: High	**Probability:** Low	
Product: FOS	**Technology:** Management	
Reported In Release: FOS7.3.0	**Technology Area:**	EZSS Switch Manager
Symptom: Unable to configure 7840 using EZ Setup		

Condition: In some cases the EZ Setup for 7840 may fail with ambigous error message and display issues.	
Recovery: Relaunch EZ Manager to restart EZ Setup	

Defect ID:	DEFECT000504187		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Traffic Management	
Reported In Release:	FOS6.3.2	**Technology Area:**	QoS: SID/DID traffic prioritization
Symptom: Some ports on Brocade 5480 switch may exhibit CRC errors			
Condition: This stems from the serdes tuning on this switch not being set to optimum setting.			

Defect ID:	DEFECT000504254	
Technical Severity:	High	**Probability:** Low
Product:	FOS	**Technology:** Other
Reported In Release:	FOS7.1.1	**Technology Area:** Other
Symptom:	Intermittent systemverification failures may be encountered when the number of test runs are increased to 50 or more.	
Condition:	This problem is encountered only when the parameters for systemverification test are modified to a different value which the system does not support. This works as expected under normal circumstance, with supported values.	

Defect ID:	DEFECT000504585	
Technical Severity:	High	**Probability:** Low
Product:	FOS	**Technology:** Management
Reported In Release:	FOS7.3.0	**Technology Area:** SNMPv2, SNMPv3 & MIBs
Symptom:	Slowness in SNMP polling and performance data collection.	
Condition:	Seen in rare cases when APM is enabled.	

Defect ID:	DEFECT000504635	
Technical Severity:	Medium	**Probability:** Medium
Product:	FOS	**Technology:** Security
Reported In Release:	FOS7.3.0	**Technology Area:** Fabric Authentication
Symptom:	In trunked FCR edge to backbone link (E-Port to EX-Port), new hash type in authentication does not display new hash type in portshow output when toggle the link(E-port) after changing the HASH.	
Condition:	In a trunked E-port link, new master port does not show the proper authentication details when we toggle the current master E-Port link alone instead of whole trunk ports.	
Workaround:	Toggle all ports in the trunk group at the same time.	

Defect ID:	DEFECT000505389	
Technical Severity:	High	**Probability:** Low
Product:	FOS	**Technology:** Other
Reported In Release:	FOS7.3.0	**Technology Area:** Other
Symptom:	Switch may be Disabled due to internal ports not being Online	
Condition:	This may be encountered in rare circumstance on a Brocade 7840 switch	

Defect ID:	DEFECT000505510

Technical Severity:	High	Probability: Low	
Product: FOS		Technology: Monitoring/RAS	
Reported In Release:	FOS7.3.0	Technology Area:	Monitoring and Alerting Policy Suite (MAPS)
Symptom: MAPS don't allow user to delete bad rules.			
Condition: When user creates more than recommended number of rules per policy, MAPS will not show all the rules present in the policy and will not allow bad rules to be deleted. The recommend maximum supported number is 200 rules per policy.			
Workaround: User MAPS pre-define rules.			

Defect ID:	DEFECT000505940	
Technical Severity: Medium	**Probability:** Medium	
Product: FOS	**Technology:** Other	
Reported In Release: FOS7.3.0	**Technology Area:**	Other
Symptom:	Ambigous eError message when removing 7840 WAN Rate Upgrade 2 license using WebTools and there IP interface configured.	
Condition:	When the 7840 has IP interfaces configured on GE ports and the WAN Rate Upgrade 2 license is removed through WebTools	
Workaround:	Correct error message displays in FOS CLI when removing the WAN Rate Upgrade 2 license and IP interfaces are configured.	

Defect ID:	DEFECT000507007	
Technical Severity: High	**Probability:** Medium	
Product: FOS	**Technology:** Monitoring/RAS	
Reported In Release: FOS7.3.0	**Technology Area:**	Flow Vision: Flow Generator
Symptom:	User may only see 256 sub-flows when the predefined flow "sys_gen_all_simports" is activated in 512 port chassis and activation of the predefined flow may result in high CPU usage.	
Condition:	When user activates the predefined flow "sys_gen_all_simports".	

Defect ID:	DEFECT000507532	
Technical Severity: Medium	**Probability:** Medium	
Product: FOS	**Technology:** Monitoring/RAS	
Reported In Release: FOS7.3.0	**Technology Area:**	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	This is a display issue of dashboard. DB shows wrong or NULL flow name if user does slotpoweroff/on	
Condition:	This is a cosmetic display issue seen on dashboard only when user performs slotpoweroff/on.	

Defect ID:	DEFECT000508628	
Technical Severity: High	**Probability:** Low	
Product: FOS	**Technology:** Security	
Reported In Release: FOS7.3.0	**Technology Area:**	Fabric Authentication
Symptom:	7840 does not authenticate to RSA server configured for factor authentication for RADIUS.	
Condition:	7840 does not responds to RADIUS Access-Challenge packet	
Recovery:	Not Applicable.	

Defect ID:	DEFECT000508975	
Technical Severity: Medium	**Probability:** High	

Product:	FOS	Technology:	Management
Reported In Release:	FOS7.0.0	**Technology Area:**	CLI
Symptom:	When enabling Message of the Day (MOTD) on Fabric OS after upgrading from FOS Versions v6.x to v7.x , the MOTD is not displayed for the SSH session.		
Condition:	This happens when switch starts at Fabric OS V6.x, and is then upgraded to v7.x FOS Versions where MOTD exists.		

Defect ID:	DEFECT000509006		
Technical Severity: Medium		**Probability:** Medium	
Product:	FOS	**Technology:**	Management
Reported In Release:	FOS7.3.0	**Technology Area:**	CLI
Symptom:	E-Port disabled after enabling TTS FEC on an existing online E-Port.		
Condition:	After enabling TTS FEC on an existing online E-Port.		
Recovery:	Disable FEC TTS configuration on the E-Port.		

Defect ID:	DEFECT000509898		
Technical Severity: Medium		**Probability:** Medium	
Product:	FOS	**Technology:**	Other
Reported In Release:	FOS7.3.0	**Technology Area:**	Other
Symptom:	Switchshow and portcfgshow displays ports configuration as "Auto Negotiate" when configured as fixed speed after firmeare download to FOS 7.3.0		
Condition:	After a firmware download to FOS v7.3.0 from previous release, switchshow and portcfgshow displays port configuration as auto negotiate when configured as fixed speed. The actual link speed is the configured speed.		
Recovery:	Perform a hareboot or hafailvoer after the firmware download to FOS v7.3.0.		

Defect ID:	DEFECT000510291		
Technical Severity: High		**Probability:** Medium	
Product:	FOS	**Technology:**	Distance
Reported In Release:	FOS7.3.0	**Technology Area:**	FCIP
Symptom:	7840 FCIP tunnel or circuit bounces as well as C3 frame discard when running flow generator traffic across FCIP tunnels		
Condition:	Running flow generator traffic over FCIP using small frames (<2kB). Running flow generator traffic at a rate that is higher than the available bandwidth over the FCIP tunnel.		
Workaround:	Run a flow generator session that utilizes full FC frame sizes (2kB) and that also does not over commit the FCIP tunnel.		

Defect ID:	DEFECT000510334		
Technical Severity: High		**Probability:** Low	

Product:	FOS	Technology: Other	
Reported In Release:	FOS7.0.2	Technology Area:	Other
Symptom:	In an encryption environment (BES or FS8-18), the addition of a LUN to a crypto target container fails getting either device is busy or timeout when trying to configure.		
Condition:	Issue can be seen when there are more ITLs configured in the LUN or encryption engine was stressed with heavy I/O.		

Defect ID:	DEFECT000511542		
Technical Severity: High		Probability: Low	
Product:	FOS	Technology: Monitoring/RAS	
Reported In Release:	FOS7.2.1	Technology Area:	supportShow
Symptom:	Running supportsave on a director switch with faulted FC8-48E blades may lead to panic and cold recovery.		
Condition:	This may occur when supportsave is run with blades in faulted state with reason code of PCI timeout (90) or power issues (28)		

Defect ID:	DEFECT000511719		
Technical Severity: Medium		Probability: Low	
Product:	FOS	Technology: Management	
Reported In Release:	FOS7.3.0	Technology Area:	Web Tools
Symptom:	Unable to view HA status of the 7840 FCIP tunnel from WebTools to determine if firmware download will be disruptive.		
Condition:	WebTools does not display the HA status of a 7840 FCIP tunnel prior to firmware download		
Workaround:	View the 7840 FCIP tunnel HA status from FOS CLI		

Defect ID:	DEFECT000512293	
Technical Severity: Medium	**Probability:** Low	
Product: FOS	**Technology:** Management	
Reported In Release: FOS7.3.0	**Technology Area:**	Ethernet Interface
Symptom:	For 7840 platform, the management link doesn't come up when eth0 (Magament inteface) speed and duplex is forced to 100Mbps/Half-duplex and rolling error message seen on console.	
Condition:	When the 7840 platform eth0 is configured to 100Mbps half duplex.	
Workaround:	Use speed of 100Mbps/Full-duplex instead of 100Mbps/Half-duplex.	

Defect ID:	DEFECT000512507	
Technical Severity: High	**Probability:** Medium	
Product: FOS	**Technology:** Traffic Management	
Reported In Release: FOS7.2.0	**Technology Area:**	Routing
Symptom:	Observed performance issue on FX8-24 when there are exactly two equal bandwidth FCIP tunnels.	
Condition:	Only applicable when there are two incoming paths (E-ports, trunks, EX-ports) on a given FX8-24 or BR7800 ASIC Chip.	
Workaround:	Use one or greater than two incoming path to FX8-24 and 7800, or configure one of the links with a slightly lower bandwidth.	

Defect ID:	DEFECT000512866	
Technical Severity: Medium	**Probability:** Medium	
Product: FOS	**Technology:** Monitoring/RAS	
Reported In Release: FOS7.3.0	**Technology Area:**	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	Customer could see MAPS alert related to SLOT, PS, FAN, WWN etc. during HA failover.	
Condition:	During HAfailover and firmwaredownload, MAPS rule "BLADE_STATE==OUT" is triggered for an empty slot and FRU Health "Out of Range" violation logged happened.	
Recovery:	There is no functionality error. User can ignore these alters.	

Defect ID:	DEFECT000513327	
Technical Severity: Medium	**Probability:** Medium	
Product: FOS	**Technology:** Distance	
Reported In Release: FOS7.3.0	**Technology Area:**	FCIP
Symptom:	FCIP Circuit will bounce due to Keep Alive Timeout.	
Condition:	Customer is running bi-directional, hi-traffic load using large block sizes (512kB or greater) running over a network with 250ms delay and hitting 1% packet loss.	
Recovery:	This is self recovers via circuit bounce.	

Defect ID:	DEFECT000513450		
Technical Severity: Medium		**Probability:** Medium	
Product: FOS		**Technology:** Other	
Reported In Release: FOS7.3.0		**Technology Area:** Other	
Symptom:	FCOE device doesn't login after portcfgdefault		
Condition:	After portcfgdefault, the VF-Port comes up as FCoE enabled, but the device doesn't login into the switch.		
Recovery:	Toggling of the VF-Port by executing fcoe --disable/enable <port #> will allow the device to login		

Defect ID:	DEFECT000513544	
Technical Severity:	High	**Probability:** Low
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.1.1	**Technology Area:** Management Server
Symptom:	During code upgrade, standby CP may run into repeated msd panics and may not come online to standby ready mode.	
Condition:	This occurs when AG node name is missing on active CP during execution of the FC-GS-3 Register Platform (RPL) command.	

Defect ID:	DEFECT000513644	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Traffic Management
Reported In Release:	FOS7.3.0	**Technology Area:** Lossless DLS
Symptom:	Some parallel, equal cost paths may initially be unused for routing traffic to remote domains more than one hop away. The paths may be utilized for traffic to intermediate domains along the path but may be missing for a later domain. For those specific domains, the paths will not show up in any of the reports or CLIs that show routing data for those specific domains. (Examples include topologyShow, uRouteShow, director diagnostics for FICON, and others.) When the problem corrects itself , the customer's traffic may experience re-routes as the switch adjust routes to start using the previously missing paths. The correction of the problem to include the missing paths happens automatically within a time window of 30 minutes from when the problem happened. Many of cases where this happens should be corrected much sooner. When a re-route occurs, out of order frames are always a possibility for mutli-hop routes. In this case, since the reroutes happen at a later time than a cust	
Condition:	The switches must have Lossless DLS enabled. Then, the problem can happen when parallel paths to an existing domain are added due to a new domain joining the fabric. For example: a diamond topology where one of the points of diamond is offline and being brought back online.	
Workaround:	The switches will automatically correct the problem within 30 minutes. If the customer wants to control when the reroute happens, they could bounce one of the missing ISLs and this will cause FSPF to correct the problem. (Note: if the ISL is a trunk, all members of the trunk must be bounced to generate the necessary events.) Adding a new ISL that does not join an existing trunk group will also generates the necessary events to fix the problem.	

Defect ID:	DEFECT000513806		
Technical Severity:	Low	**Probability:** Low	
Product:	FOS	**Technology:** Other	
Reported In Release:	FOS7.2.0	**Technology Area:**	Other
Symptom:	Sorting switch events by date does not function properly in webtools		
Condition:	This issue is seen in webtools, only when sorting events on the Time column, following an upgrade to Fabric OS version v7.2.0d. This sorting operation on the Time column does not function properly.		

Defect ID:	DEFECT000513923	
Technical Severity: High	**Probability:** High	
Product: FOS	**Technology:** Virtualization	
Reported In Release: FOS7.2.0	**Technology Area:** Access Gateway	
Symptom:	ELS commands get rejected and host on AG switch can no longer communicate with the target in the 3rd party vendor fabric.	
Condition:	This may happen in a Fabric with Access Gateway F-port with at least one NPIV login, and one of the NPIV logins has a PID with the domain and area portion equal to that of the target.	
Workaround:	Reconfigure the fabric switch so that the domain and area portions of PIDs on Access Gateway F-ports do not match the domain and area portions of the target's PID.	
Recovery:	Reboot the Access Gateway switch.	

Defect ID:	DEFECT000514203	
Technical Severity: Medium	**Probability:** Low	
Product: FOS	**Technology:** Distance	
Reported In Release: FOS7.3.0	**Technology Area:** FCIP	
Symptom:	The 7840 console output shows many XTUN 1997 messages during I/O.	
Condition:	An active FCIP Tunnel on a lossy or busy network.	
Recovery:	No impact to IO	

Defect ID:	DEFECT000514554	
Technical Severity: High	**Probability:** Low	
Product: FOS	**Technology:** Distance	
Reported In Release: FOS7.3.0	**Technology Area:** FCIP	
Symptom:	VE Port offline and then online after circuit modifications change the overall tunnel bandwidth.	
Condition:	1) The new Path MTU discovery feature is enabled on a circuit's IP pair 2) The tunnel has been up for more than 5 minutes 3) and the tunnel bandwidth is modified (a circuit data rate has been modified).	
Workaround:	Ensure data is not running, or first disable the VE Port, change bandwdith, then re-enable the VE port. If the VE port was not disabled, a VE offline and then online event will occur.	
Recovery:	The tunnel will automatically recover.	

Defect ID:	DEFECT000514741	
Technical Severity: Medium	**Probability:** High	
Product: FOS	**Technology:** Distance	
Reported In Release: FOS7.3.0	**Technology Area:** FCIP	

Symptom:	FFDC is observed for log drop message. The FFDC message is harmless in functionality, it is only for internal purpose to find out which message gets dropped.
Condition:	There could be many internal raslog messages that overrun the raslog queue, thus the message is seen
Recovery:	no action needed when this happens.

Defect ID:	DEFECT000515187		
Technical Severity: Medium		Probability: Medium	
Product: FOS		Technology: System	
Reported In Release:	FOS7.1.2	Technology Area:	CLI
Symptom:	While performing CLI command "seccertutil delkey", the certificates/keys are truncated to zero but the "Certificate File" does not become "none". This may cause the switch to panic due to configuration inconsistencies.		
Condition:	This may occur when executing the CLI command "seccertutil delkey".		

Defect ID:	DEFECT000515227		
Technical Severity:	Medium	**Probability:**	Medium
Product:	FOS	**Technology:**	Other
Reported In Release:	FOS7.3.0	**Technology Area:**	Other
Symptom:	After HA reboot, customer will not be able to see the enforced authentication details information in EX-port.		
Condition:	HA reboot the swtich with authentication configured on EX-port.		
Workaround:	Customer can find the authentication detail information on the Edge fabric E-port which is connected to the EX-port with authentication configured.		

Defect ID:	DEFECT000515313		
Technical Severity:	Medium	**Probability:**	Low
Product:	FOS	**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:**	Fabric Watch
Symptom:	While performing a supportsave, user may see benign display messages, interspersed with the supportsave output.		
Condition:	This may be seen when the user attempts a supportsave operation after deleting frame monitoring.		

Defect ID:	DEFECT000515403		
Technical Severity:	High	**Probability:**	High
Product:	FOS	**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.1.2	**Technology Area:**	supportShow
Symptom:	Some command names are missing in SSHOW files of supportsave.		
Condition:	This issue occurs in Director class platforms.		

Defect ID:	DEFECT000515787		
Technical Severity:	Medium	**Probability:**	Medium
Product:	FOS	**Technology:**	Distance
Reported In Release:	FOS7.3.0	**Technology Area:**	FCIP
Symptom:	The CLI command 'portshow fciptunnel --reset' does not reset the connected count field properly in the FCIP tunnel statistics, and so it may show an invalid count after this command is issued.		
Condition:	Issue may occur when the 'portshow fciptunnel --reset' command is issued to reset the FCIP tunnel counters.		
Workaround:	Avoid using the '--reset' option with the portshow fciptunnel command.		

Defect ID:	DEFECT000516108	
Technical Severity:	Medium	Probability: High
Product:	FOS	Technology: Monitoring/RAS
Reported In Release:	FOS7.3.0	Technology Area: Monitoring and Alerting Policy Suite (MAPS)
Symptom:	QSFPs having serial number starting with "HUA" are being monitored using ALL_OTHER_SFP group. These should instead be monitored under ALL_QSFP or some other special QSFP group. All other QSFPs are correctly monitored under ALL_QSFP.	
Condition:	This is encountered only with QSFPs having serial number starting with "HUA" .	

Defect ID:	DEFECT000516196	
Technical Severity:	High	Probability: High
Product:	FOS	Technology: System
Reported In Release:	FOS7.3.0	Technology Area: CLI
Symptom:	BNA users may witness failure in moving ports across LS's on Brocade 7840 switch.	
Condition:	This may be encountered following the CLI command 'portCfgDefault' on GE ports of Brocade 7840 Switch.	

Defect ID:	DEFECT000516255	
Technical Severity:	High	Probability: Low
Product:	FOS	Technology: Distance
Reported In Release:	FOS7.3.0	Technology Area: FCIP
Symptom:	Any replication devices using ELS (PRLI) and ELS _ACC frames as heartbeat during the replication might have potential traffic disrupted when doing non-disruptive firmwaredownload in FCR configuration.	
Condition:	When replication devices on the edge fabric to 7840 through EX port. Replication devices must use ELS (PRLI) and ELS_ACC as heart beat for every few seconds. The windows for heartbeat loss is 3 minutes. IO will stop if replication device can not recover.	

Defect ID:	DEFECT000516309	
Technical Severity:	High	Probability: High
Product:	FOS	Technology: Virtualization
Reported In Release:	FOS7.0.0_pha	Technology Area: Access Gateway
Symptom:	Hosts have problems logging into the fabric through an Access Gateway.	
Condition:	This may be encountered under the following conditions:	

- Hosts are connected to an Access Gateway. - F-ports on Access Gateway have NPIV logins. - Different hosts login and logout of the same Access Gateway F-port, and - Access Gateway Persistent AL_PA feature is enabled.	
Recovery:	Identify all affected F-ports with duplicate ALPA entries ag --printalpamap <port#> Disable _all_ the affected F-ports with duplicate ALPA entries portdisable <port#> ag --clearalpamap <port#> portenable <port#>

Defect ID:	DEFECT000516599	
Technical Severity:	High	**Probability:** Medium
Product:	FOS	**Technology:** Distance
Reported In Release:	FOS7.2.0	**Technology Area:** FCIP
Symptom:	XTUN-1008 messages reported every 5 minutes in the RAS log and BNA console	
Condition:	After extended uptime in a large FCIP FCP Fast Write and Open Systems Tape Pipelining configuration.	
Recovery:	Reboot FCIP switch or power cycle the slot that is reporting the messages	

Defect ID:	DEFECT000516611	
Technical Severity:	Medium	**Probability:** High
Product:	FOS	**Technology:** Monitoring/RAS
Reported In Release:	FOS7.1.2	**Technology Area:** Audit Log
Symptom:	Always audit.cfg.class key not present in config files after upgrading to 712a	
Condition:	Issue will be seen in warm recovery such as a firmware upgrade.	
Workaround:	Reboot will write the key back to config file	
Recovery:	Please configure any one class using auditcfg command.	

Defect ID:	DEFECT000516632		
Technical Severity:	Medium	**Probability:** Low	
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.3.0	**Technology Area:**	CLI
Symptom:	Userspace daemon mdd may crash after an extended period. This incident is benign since the daemon is automatically restarted		
Condition:	This is a rare occurrence resulting from a very slow memory leak in L2 device monitoring. With the default polling rate of once per day the incident may occur about once a year. Accelerated polling will increase the frequency but the daemon is automatically restarted and the incident is rendered benign.		

Defect ID:	DEFECT000516703		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.1.0	**Technology Area:**	FCIP
Symptom:	FICN-1062 and FICN-1063 abort messages on XRC and IFCC on host.		
Condition:	This may be encountered in a large FICON disk mirroring configuration that includes base and alias devices in the connected primary controllers		
Workaround:	None required – IFCCs will occur and normal channel error recovery will complete		

Defect ID:	DEFECT000516934		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.3.0	**Technology Area:**	Equipment Status
Symptom:	FC16-64 DC power consumption is set to 160W but needs to be lowered to its actual maximum.		
Condition:	FC16-64 is inserted in a 8510-8 or 8510-4 chassis, slotshow -p will display DC power consumption as 160W.		

Defect ID:	DEFECT000517927		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Virtualization	
Reported In Release:	FOS7.2.1	**Technology Area:**	Access Gateway
Symptom:	Following an upgrade, BES panics when user attempts to enable access gateway.		
Condition:	This is encountered on FOS v7.2.x and v7.3.x code streams; However, FOSv7.3 no longer support access gateway mode on BES switch, and FOS7.3.1 now enforces		

the no support.	
Workaround: Avoid enabling access gateway mode on encryption switches.	

Defect ID:	DEFECT000519003		
Technical Severity:	Medium	**Probability:** High	
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS6.4.3	**Technology Area:**	FCIP
Symptom:	FICON Tape Backup/restore jobs are failing using FICON Emulation enabled tunnels.		
Condition:	FICON Emulation enabled tunnels on the 7500, FR4-18i, 7800, FX8-24 and 7840s with a new OEM virtual tape controller and micro code.		
Workaround: Disable FICON Acceleration			

Defect ID:	DEFECT000519313	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Virtualization
Reported In Release:	FOS7.0.2	**Technology Area:** Access Gateway
Symptom: Internal ports may not be properly enabled or disabled after boot-up.		
Condition: This may be encountered on a very busy system, where expansion commands from SVP may not get processed in time.		
Recovery: The problem is intermittent. The expansion command can be re-triggered if any of the server blades is moved.		

Defect ID:	DEFECT000519655	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.1.0	**Technology Area:** FCIP
Symptom: FCIP GigE portstatsshow frame TX type counters show inaccurate counts.		
Condition: When using the CLI command: portstatsshow geX, where geX is ge1-ge5 on the 7800 platform		
Workaround: Use portstatsshow ge0 output. It includes the aggregation of the TX frame type counters for all GigE ports on the 7800 platform.		

Defect ID:	DEFECT000519709	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.3.0	**Technology Area:** FCIP
Symptom: After multiple bounces, the FCIP circuit will show as degraded. This will cause the FCIP tunnel to show as degraded as well.		
Condition: The FCIP circuit/tunnel is bounced multiple times. This repeated bouncing can result in degraded condition.		
Recovery: Reboot the 7840 to recover from the FCIP circuit/tunnel degraded state.		

Defect ID:	DEFECT000519965	
Technical Severity:	Critical	**Probability:** Medium
Product: FOS		**Technology:** Other
Reported In Release:	FOS7.1.1	**Technology Area:** Other
Symptom: FCoE AP blades may be faulted following a firmware upgrade.		
Condition: This may occur due to ethernet connectivity issues on FCOE blades that have been		

up for a long period of time.	

Defect ID:	DEFECT000520145		
Technical Severity:	High	**Probability:**	High
Product:	FOS	**Technology:**	Security
Reported In Release:	FOS7.3.0	**Technology Area:**	Fabric Authentication
Symptom:	"Authentication Failure" is displayed in switchshow output for an EX_Port.		
Condition:	EX_Port is disabled with reason "Authentication Failure", when Edge Fabric is configured with FCAP authentication type alone and EX_port is configured with other authentication type.		
Recovery:	Disable FCAP authentication in edge fabric switch.		

Defect ID:	DEFECT000520219		
Technical Severity:	Medium	**Probability:**	High
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.3.0	**Technology Area:**	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	customer cannot achieve Port Decom even though that action is configured in the rule		
Condition:	This is encountered if Port Fence and Port Decom are the only actions configured in the rule		

Defect ID:	DEFECT000520549		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:** Other	
Reported In Release:	FOS7.3.0	**Technology Area:**	Other
Symptom:	Software ASSERT error, followed by reboot, when a switch running FOS v7.3.0 in Access Gateway mode is connected to a non-Brocade Fibre Channel switch.		
Condition:	The software ASSERT error may happen in a Access Gateway (AG) switch running FOS v7.3.0 only when the devices connected behind the AG switch perform FDMI registration with a non-Brocade Fibre Channel switch.		

Defect ID:	DEFECT000520550		
Technical Severity:	High	**Probability:**	High
Product: FOS		**Technology:** Traffic Management	
Reported In Release:	FOS7.3.0	**Technology Area:**	Routing
Symptom:	SW7840 Hot Code Load encountered an ESM fatal error during Failback which resulted in cold recovery.		
Condition:	This may occur when a pair of SW7840s are tunnel-linked in all 4 Logical Partitions, and an HCL is performed on just one of the two SW7840s.		
Recovery:	No recovery is necessary, after the HCL completes a cold reboot, the switch and tunnel(s) are stable again.		

Defect ID:	DEFECT000520567		
Technical Severity:	Medium	**Probability:**	High
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.3.0	**Technology Area:**	FCIP
Symptom:	The FOS CLI will allow an IPIF MTU to be configured below the supported minimum value of 1280 bytes.		
Condition:	Anytime an IPIF is configured with an MTU lower than 1280 bytes.		

Workaround:	The user should not attempt to create an IPIF with an MTU lower than 1280 bytes as this is not supported.
Recovery:	To recover, the IPIF can be deleted and recreated with an MTU set to at least 1280 bytes.

Defect ID:	DEFECT000521166		
Technical Severity:	Medium	Probability:	Low
Product:	FOS	Technology:	Traffic Management
Reported In Release:	FOS6.4.3	Technology Area:	Name Server
Symptom:	Corrupted frames cause nsd to panic and result in multiple switches in the fabric to cold boot.		
Condition:	This may occur upon a rare hardware failure on a neighboring switch, resulting in corrupted nsd query response frames arriving at the other switches in the fabric.		
Recovery:	Remove the failed blade or switch to eliminate the cause of these corrupted frames.		

Defect ID:	DEFECT000521195		
Technical Severity:	High	**Probability:**	Medium
Product:	FOS	**Technology:**	FICON
Reported In Release:	FOS7.2.0	**Technology Area:**	FICON
Symptom:	Add ability to enable insistent domain ID (IDID) while the switch is online to permit non-disruptive upgrade v7.2.x to v7.3.		
Condition:	As per design, upgrade to from FOS7.2.x to FOS v7.3 is blocked if customer has single switch fabric in FMS mode with SCC policy configured but IDID OFF. It requires a "switchdisable" in FOS v7.2.x to set IDID ON.		

Defect ID:	DEFECT000521218		
Technical Severity:	High	**Probability:**	Medium
Product:	FOS	**Technology:**	Distance
Reported In Release:	FOS7.3.0	**Technology Area:**	Extended Fabrics
Symptom:	Host discovery issues after upgrade to FOS7.2.x in FC Routed configuration over VE/VEX ports		
Condition:	These host discovery issues may be encountered following upgrade to any FOS7.2.x release from a FOS version prior to FOS7.2.0, in FC Routed configuration over VE/VEX ports		
Workaround:	Downgrade to a FOS release prior to FOS7.2.0.		

Defect ID:	DEFECT000521272		
Technical Severity:	Medium	**Probability:**	High
Product:	FOS	**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.2.1	**Technology Area:**	Fabric Watch
Symptom:	FW-1430 raslog messages logged to indicate possible faulty temperature sensor, but with no subsequent FW-1003 messages to indicate which sensor is triggering the alarms.		
Condition:	This may be encountered if the sensor issue is transient in nature and problem recovers before triggering subsequent faults.		

Defect ID:	DEFECT000521398		
Technical Severity:	High	**Probability:**	Low
Product:	FOS	**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.1.1	**Technology Area:**	Equipment Status
Symptom:	Before shutdown switch due to a high temperature alert, emd encountered an assert		

and caused switch to panic.	
Condition: This may happen during switch shutdown following a high temperature warning "Unit will be shut down in 2 minutes if temperature remains high"	

Defect ID: DEFECT000521981			
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.3.0	**Technology Area:**	Flow Vision: Flow Monitor
Symptom: Defined flows on the master port are deleted			
Condition: Deactivate and delete defined flows on a slave port will delete flows on the master port.			

Defect ID:	DEFECT000522361		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.1.0	**Technology Area:**	Monitoring and Alerting Policy Suite (MAPS)
Symptom: 16Gbs Core blades experiencing heavy frame loss are not being faulted and impacted fabric traffic.			
Condition: When 16G blades experience excessive bad_os, enc_out etc link errors			
Recovery: Replace excessive link error blade. After upgrade to a release with fix, the blade will be faulted if link error reaches an internal monitoring threshold.			

Defect ID:	DEFECT000522389		
Technical Severity:	Medium	**Probability:** High	
Product: FOS		**Technology:** Security	
Reported In Release:	FOS7.3.0	**Technology Area:**	FIPS
Symptom: Openssl advisories CVE-2014-0076 and CVE-2014-3470 have been implemented as a precautionary step to patch a vulnerability identified by NIST.			
Condition: Although FOS use a version of OpenSSL that contains these vulnerabilities, none uses ECDH or ECDSA. Therefore, there is no exposure to these vulnerabilities.			
Workaround: Since there is no exposure to these vulnerabilities, no workaround is required.			

Defect ID:	DEFECT000522602		
Technical Severity:	Medium	**Probability:** Medium	
Product: FOS		**Technology:** System	
Reported In Release:	FOS7.3.0	**Technology Area:**	CLI
Symptom: 'fabricshow -v' does not display FOS revision patch id under "Version" column.			
Condition: Display content overrun the declared array size.			

Defect ID:	DEFECT000522753		
Technical Severity:	Medium	**Probability:** Low	
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.3.0	**Technology Area:**	Tunnel Management
Symptom: The FCIP Data Processor will encounter a software exception and then reload.			
Condition: While performing supportsave data collection, for the ARL module, if the FCIP Tunnels are in a particular phase of the disconnecting process this software exception will be encountered.			

Defect ID:	DEFECT000522807	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:** Monitoring and Alerting Policy Suite (MAPS)
Symptom: User space daemon mdd might auto restart due to memory corruption.		
Condition: This happen when more than 5 rules get trigger for more than 2-3 hours.		

Defect ID:	DEFECT000522934	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.3.0	**Technology Area:** Web Tools
Symptom: The "user" role is not prevented from configuring the port non-DFE settings.		
Condition: Accessing WebTools as "user" role in the switch and slot views		
Workaround: DFE configuration will not be presented in Port General view		

Defect ID:	DEFECT000523092	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** System
Reported In Release:	FOS7.3.0	**Technology Area:** CLI
Symptom: Unable to collect supportsave on BR5460 with error msg: "The switch does not have enough disk space to run full supportSave. Available Free disk space is 27 MB."		
Condition: This is encountered when Compact Flash available free space is low		

Defect ID:	DEFECT000523193	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** FICON
Reported In Release:	FOS7.1.0	**Technology Area:** FICON emulation
Symptom: IFCC during tape reads - Emulation Error Code=86 during REPOSITION_PENDING_STATE		
Condition: When FICON tape read pipelining is active and the device presents Short Busy status		
Workaround: Disable FICON Read Pipelining		
Recovery: The I/O recovers on its own - no further action is required.		

Defect ID:	DEFECT000523367

Technical Severity:	High	Probability: High	
Product: FOS		Technology: FICON	
Reported In Release:	FOS7.1.0	Technology Area:	FICON CUP
Symptom: MVS displays messages IOS078I & IOS079I timeouts.			
Condition: In a very busy switch, with the CUP processing CCWs from multiple Host LPARs, e.g. many LPARS independently collecting RMF statistics from the CUP.			

Defect ID: DEFECT000523412			
Technical Severity:	High	Probability: High	
Product: FOS		Technology: Distance	
Reported In Release:	FOS7.3.0	Technology Area:	FCIP
Symptom: 7840 goes offline after about 30 days of run time.			
Condition: There is a small memory leak on the heartbeat between 7840 CP and DP, which cause the 7840 to run out of memory after about 30 days.			
Recovery: Reboot the 7840.			

Defect ID: DEFECT000523418			
Technical Severity:	High	Probability: Medium	
Product: FOS		Technology: Distance	
Reported In Release:	FOS7.3.0	Technology Area:	FCIP
Symptom: 7840 switch reboots due to Kernel panic.			
Condition: QSFP port (GE0 and GE1) plug-out and plug-in and the receipt of ABTS response from connected devices.			

Defect ID: DEFECT000523451			
Technical Severity:	High	Probability: Medium	
Product: FOS		Technology: Other	
Reported In Release:	FOS7.2.0	Technology Area:	Other
Symptom: Customer may experience a cold boot on the DCX after bouncing FCoE port			
Condition: This may occur during a small timing window, when an external FCoE interface goes down, the corresponding internal FI ports is moved to temporary internal state and ELS frames arrive at the same time, triggerring a CPU busy condition.			
Recovery: Switch cold boots and recovers on its own. No further recovery action is necessary.			

Defect ID: DEFECT000523530			
Technical	Medium	Probability: High	

Severity:	
Product: FOS	**Technology:** Security
Reported In Release: FOS7.1.1	**Technology Area:** Encryption
Symptom: On LUN expansion, hosts showed the disk space as "un-allocated"	
Condition: The problem may be encountered in encryption environment (BES/FS8-18) when slow path and control frames are punted to software.	

Defect ID: DEFECT000523796	
Technical Severity: Medium	**Probability:** Medium
Product: FOS	**Technology:** Traffic Management
Reported In Release: FOS7.0.0	**Technology Area:** BB Credits
Symptom: Increased latency and negative performance impact may be encountered in an edge/core configured fabric.	
Condition: This may be observed when hosts exhibiting mild latency behavior are present, along with over-subscribed devices leading to congestion within the fabric.	
Workaround: Remove or Isolate latency devices into QoS zone to avoid impact to others in fabric	

Defect ID: DEFECT000523845	
Technical Severity: Medium	**Probability:** Medium
Product: FOS	**Technology:** Virtualization
Reported In Release: FOS6.3.2	**Technology Area:** Access Gateway
Symptom: appearance of the configuration parameter "ag.fporttrunking" differs depending on reboot/hareboot	
Condition: After non-disruptive firmware upgrade from FOS v6.2 to FOS v6.3, configuration key ag.fporttruking(introduced in FOS v6.3) created at boot stage is getting removed. And the issue persists when user performs non-disruptive firmware upgrade to higher firmware versions without reboot..	
Recovery: No other functional impact	

Defect ID: DEFECT000523906	
Technical Severity: High	**Probability:** Medium
Product: FOS	**Technology:** Management
Reported In Release: FOS7.3.0	**Technology Area:** Firmware upload/download
Symptom: The SupportSave for FICON is occasionally incomplete on a 7840.	
Condition: 7840 FICON SupportSaves are incomplete when taken from BNA. .	

Workaround: Although the SupportSave is showing incomplete, all the required information is captured.

Defect ID: DEFECT000524168	
Technical Severity: Medium	Probability: High
Product: FOS	Technology: Monitoring/RAS
Reported In Release: FOS7.3.0	Technology Area: Diagnostic Port (D_Port)
Symptom: AG ports get disabled, instead of coming up as N-ports.	
Condition: It happens when connecting AG to switch with On-Demand D_Port's ports.	

Defect ID:	DEFECT000524177		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.3.0	**Technology Area:**	Flow Vision: Flow Monitor
Symptom: Creating and activating flow monitor on inflight encryption and compression enabled ports is not blocked			
Condition: Flow monitoring is not supported on inflight encryption and compression enabled ports.			

Defect ID:	DEFECT000524323		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.2.0	**Technology Area:**	Firmware upload/download
Symptom: BNA 12.3.1 firmware download dialog shows switches multiple times with the same switch WWN but different firmware versions.			
Condition: When the fabric has GEN4 switches running v6.x firmware in non-VF mode.			

Defect ID:	DEFECT000524328		
Technical Severity:	Medium	**Probability:** Medium	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.3.0	**Technology Area:**	Monitoring and Alerting Policy Suite (MAPS)
Symptom: User will not see rules triggered for utilization statistic.			
Condition: This only applies to FOS7.3.0 and later			

Defect ID:	DEFECT000524891		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.3.0	**Technology Area:**	FCIP
Symptom: 7840 kernel panic results in switch reboot.			
Condition: Zone update in large scale fabric in parallel with a lot of RASLOG messages on console can trigger this issue.			

Defect ID:	DEFECT000524910		
Technical Severity:	High	**Probability:** Medium	

Product: FOS	Technology: Monitoring/RAS
Reported In Release: FOS7.3.0	**Technology Area:** Equipment Status
Symptom: Switch reports fan direction incorrectly.	
Condition: This only applies to BR6505 and BR6510. CLI "chassisshow" shows "Forward" direction of the fans even though the actual flow is the correct Reverse or port-side exhaust air direction. Conversely, it shows "Reverse" direction of the fans even though the actual flow is the correct Forward or port-side intake air direction.	

Defect ID: DEFECT000525285	
Technical Severity: Medium	**Probability:** Medium
Product: FOS	**Technology:** System
Reported In Release: FOS7.3.0	**Technology Area:** CLI
Symptom: CLI command "firmwaredwonload" may fail with SULB-1011 raslog message "Firmwaredownload command failed. Unexpected reboot occurred during firmware download. The command is aborted." but with no apparent unexpected actual reboot.	
Condition: This may occur in a rare situation from a failure in setting an internal state variable. The resulting unexpected state leads firmwaredownload to infer there has been an unexpected reboot.	
Recovery: Rerun the firmwaredownload command.	

Defect ID: DEFECT000525347	
Technical Severity: Medium	**Probability:** Low
Product: FOS	**Technology:** Traffic Management
Reported In Release: FOS7.0.2	**Technology Area:** FC-FC routing
Symptom: Customer may observe performance issues between multiple servers and storage with EX-port connected to VDX	
Condition: This may occur when there are link level errors that trigger credit loss on 16G EX port and there was prior HA warm recovery that disabled credit leak detection.	
Recovery: Bounce the port to recover	

Defect ID: DEFECT000525406	
Technical Severity: Medium	**Probability:** Low
Product: FOS	**Technology:** Traffic Management
Reported In Release: FOS7.0.0	**Technology Area:** Buffer Credit Recovery
Symptom: When customers configure Edge Hold Time (EHT) on GEN5 switches running FOS v7.0.0, F-port and E-port do not receive configured values.	
Condition: When a user makes EHT change on a GEN5 switch running FOSv7.0.0 the problem is not corrected after upgrade to FOS v7.1 and greater which do not have this	

	problem.
Recovery:	Upgrade to a release containing this fix, and re-run the configure command to set the correct EHT values. Alternatively, run slotpoweroff/on if the switch has already been upgraded to FOS v7.1 and above.

Defect ID: DEFECT000525608	
Technical Severity: High	**Probability:** High
Product: FOS	**Technology:** Distance
Reported In Release: FOS7.3.0	**Technology Area:** FCIP
Symptom: BLZ-5024 events on 7840 during FCIP non-disruptive firmware migration processing and tunnel bounce on the peer switch(es).	
Condition: When performing non-disruptive FCIP hot code load in a large FICON configuration.	

Defect ID: DEFECT000525834	
Technical Severity: Medium	**Probability:** High
Product: FOS	**Technology:** Management
Reported In Release: FOS7.3.0	**Technology Area:** Web Tools
Symptom: Invalid IP Address/Domain is populated in the "Please Login" WEB Tools dialog display, disregarding the configured details.	
Condition: When both ipv4/ipv6 are configured: 1. ipv4 address is shown when attempting to login via ipv6 2. ipv4 address is shown when attemping to login with domain name	

Defect ID: DEFECT000525998	
Technical Severity: High	**Probability:** Medium
Product: FOS	**Technology:** Distance
Reported In Release: FOS7.3.0	**Technology Area:** FCIP
Symptom: 7840 kernel panic results in switch reboot	
Condition: GE SFP plug-out/plug-in and SupportSave in parallel will cause the panic due to synchronization issue.	

Defect ID:	DEFECT000526158		
Technical Severity:	Medium	**Probability:**	High
Product: FOS		**Technology:** Other	
Reported In Release:	FOS7.0.2	**Technology Area:**	Other
Symptom:	Customer may observe increasing er_crc_good_eof and er_enc_in errors on backend ports, leading to performance problems.		
Condition:	This may be be seen in a DCX 8510-8 system with FC8-64 port blades in slots 1, 2, 11, 12;		
Recovery:	Additional tuning on DCX-4s with FC8-16, FC8-32, FC8-48 and FC8-64.		

Defect ID:	DEFECT000526447		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.2.0	**Technology Area:**	FCIP
Symptom:	7800 switch or FX8-24 blade FCIP DP complex has slow FCIP throughput		
Condition:	This issue may be encountered with multiple very active FCIP Tunnels on a 7800 or FX8-24 FCIP DP complex		
Recovery:	Power cycle slot or reset chassis.		

Defect ID:	DEFECT000526500		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:** FICON	
Reported In Release:	FOS7.3.0	**Technology Area:**	FICON CUP
Symptom:	"Detected term of ficucd" kernal panic on 7840 switch while running CUP		
Condition:	Running heavy FICON CUP test traffic that generates a much larger number of Set Interval CCW requests than is normal		
Workaround:	Reduce FICON CUP test traffic to avoid overloading the switch		

Defect ID:	DEFECT000526546		
Technical Severity:	Medium	**Probability:**	High
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.3.0	**Technology Area:**	Platform Services
Symptom:	Unable to use error inject test tool to test FEC corrections if the tool doesn't support the TTS signal.		
Condition:	TTS negotiation prevents analyzer and error inject test tools to verify FEC		

correction feature	

Defect ID:	DEFECT000526777		
Technical Severity:	High	**Probability:**	High
Product:	FOS	**Technology:**	Management
Reported In Release:	FOS7.2.0_hit	**Technology Area:**	Platform Services
Symptom:	When SVP sends the expansion commands, the BR6546 doesn't respond to the requests intermittantly. The result is that some of the internal ports may not be properly enabled/disabled.		
Condition:	The issue happens when BR6546 is busy processing the previous request and can't respond to the new ones. And the additional polling period is larger than the SVP's retry interval so it can't catch the retry requests from SVP.		
Workaround:	The issue has been fixed by optimizing the polling mechanism and the request response routines so that it won't miss the retries from SVP.		
Recovery:	Combined with the fix on IOSW, the issue can be recovered if SVP sents retry request at proper intervals.		

Defect ID:	DEFECT000526819	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** FICON
Reported In Release:	FOS7.3.0	**Technology Area:** FICON CUP
Symptom: "Detected term of ficucd" kernal panic while running CUP		
Condition: Running heavy FICON CUP test traffic creates a Diags Query CCW for the CUP it is connected to, at the same time that an IDC Query message arrives from another CUP, that is also attached to a CHP running test traffic.		
Workaround: Reduce the FICON CUP test traffic.		

Defect ID:	DEFECT000526934	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.3.0	**Technology Area:** FCIP
Symptom: CLI "portcfg ipif ge2.dp0 delete 2102:211:31:dead::2:7" returns "IP Address configuration on BCM failed" message		
Condition: Run a scrip to perform tunnel deletion/creation in a loop, issue was seen during second deletion		

Defect ID:	DEFECT000527314	
Technical Severity:	High	**Probability:** Medium
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.3.0	**Technology Area:** FCIP
Symptom: 7840 switch non-disruptive firmware migration failure results in cold reboot and FCIP tunnel disruption.		
Condition: When performing non-disruptive firmware migration on a 7840 switch.		
Workaround: Perform planned outage (disruptive) firmware migration.		

Defect ID:	DEFECT000527376	
Technical Severity:	High	**Probability:** Medium
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.3.0	**Technology Area:** FCIP
Symptom: 7840 switch panic and reboot.		
Condition: During long run testing of FICON host testing of FICON CUP with block/unblock of FC ports, 7840 switch encounters panic and reboot.		

Defect ID:	DEFECT000527455		
Technical Severity:	High	**Probability:** High	
Product: FOS		**Technology:** Other	
Reported In Release:	FOS7.0.2	**Technology Area:**	Other
Symptom:	Switch incorrectly performs IP Ethernet protocol exchange: it sends GARP response to ARP request with Sender IP address of 0.0.0.0.		
Condition:	When there is switch sending ARP request with Sender IP address of 0.0.0.0		

Defect ID:	DEFECT000527506	
Technical Severity:	High	**Probability:** Medium
Product: FOS		**Technology:** System
Reported In Release:	FOS7.1.0	**Technology Area:** Component
Symptom:	I2C access failures leading to various symptoms such as: 1. slotshow command output may flag some components with an "*", indicating no i2c access to that component. 2. switchshow command output may indicate "Speed Mismatch / Incompatible SFP" 3. tempshow command output may display "unknown" 4. Console log (dmesg) may include: pcf954x_select_mux: Failed to select the I2C mux (addr=76, val=08, err=-1 id=0)!	
Condition:	Brocade 6520 with the current version of software fails to properly reset or clear transient i2c faults. Consequently, Temporary or Transient errors on the I2C bus can result in what appears to be a permanent HW failure on a Brocade 6520.	
Recovery:	Cold boot switch	

Defect ID:	DEFECT000527848	
Technical Severity:	High	**Probability:** Medium
Product: FOS		**Technology:** FICON
Reported In Release:	FOS7.2.0	**Technology Area:** FICON emulation
Symptom:	FCIP FICON emulated Tape VM SPOOL DUMP jobs fail after FOS upgrade	
Condition:	This may be seen upon upgrade to FOS v7.2.0d, when using FICON Tape Emulation for VM tape operations	
Workaround:	Disable FCIP FICON Tape emulation or downgrade to a FOS version without fix for TR 414719	

Defect ID:	DEFECT000527862	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.3.0	**Technology Area:** Web Tools
Symptom:	Name server table column position is not persistent across relaunch	
Condition:	This name server table column display issue is seen when the switch is in non AG mode.	

Defect ID:	DEFECT000527974	
Technical Severity:	High	**Probability:** Low

Product: FOS	Technology: Security
Reported In Release: FOS6.4.0	Technology Area: Security Vulnerability
Symptom: Open SSL patches nine vulnerabilities: CVE-2014-3505, CVE-2014-3506, CVE-2014-3507, CVE-2014-3508, CVE-2014-3509, CVE-2014-3510, CVE-2014-3511, CVE-2014-3512, CVE-2014-5139.	
Condition: Due to these nine vulnerabilities, switch may allow an attacker to cause a Denial of Service (DoS) condition or force the client to revert to a less secure Transport Layer Security (TLS) 1.0 protocol.	

Defect ID: DEFECT000527997	
Technical Severity: Medium	Probability: High
Product: FOS	Technology: Management
Reported In Release: FOS7.3.0	Technology Area: Licensing
Symptom: FOS7.3.0 LicenseShow no longer shows capacity values for capacity based licenses on switches.	
Condition: Customer using "licenseshow" with FOS7.3.0 or later. Director products are not impacted.	

Defect ID:	DEFECT000528010	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.3.0	**Technology Area:** FCIP
Symptom:	FCIP HCL failure encountered due to a large number of FCIP objects in the configuration	
Condition:	This is encountered when a large number of FCIP Objects (>> 20K FICON or FCP objects) are present.	
Workaround: Schedule a maintenance window for a disruptive FOS code load.		
Recovery: Recover environment after disruptive code load completes.		

Defect ID:	DEFECT000528085	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Traffic Management
Reported In Release:	FOS7.2.1	**Technology Area:** Name Server / Zoning
Symptom:	Devices are unable to discover their targets due to failure of login (PLOGI) to the Name Server because the PLOGI never receives a response.	
Condition:	This may be encountered when running FOS versions v7.2.1a or higher and back-to-back FLOGIs are sent from a device such that the second FLOGI is sent before the device receives an ACC for the first FLOGI.	

Defect ID:	DEFECT000528207	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.1.0	**Technology Area:** Bottleneck Detection
Symptom:	Inconsistent slot/port display format in Bottleneck Detection related RASLOG messages make it hard to read, track, and program to monitor these messages.	
Condition: This may occur when there is congestion or slow drain devices in a fabric.		

Defect ID:	DEFECT000528245	
Technical Severity:	High	**Probability:** Medium
Product: FOS		**Technology:** Traffic Management
Reported In Release:	FOS7.2.0	**Technology Area:** Port bring up
Symptom:	Switch may start logging SCN-1001 events for SCN queue overflow for process nsd, and MQ-1005 messages for nsd queue full. This may eventually result in CP panic.	

Condition:	This may be seen in an environment with port devices that neither cut off light nor come on line, compounded with RNID storm between devices in a large flat zone. Consequently CPU gets overloaded with excessive interrupts and cannot schedule time for other user space daemons.
Workaround:	Disabling all problem ports with unstable light or fixing the speed of the port may help to limit the CPU load.

Defect ID: DEFECT000528631	
Technical Severity: High	**Probability:** High
Product: FOS	**Technology:** Traffic Management
Reported In Release: FOS6.4.2	**Technology Area:** Name Server / Zoning
Symptom: Fibre Channel Common Transport (FC_CT) response to GPL query exceeds maximum allowed size and causes 3rd party HBA in a non-responsible state.	
Condition: This happens when HBA makes the GPL query to remote switch. Query to directly connected switch is not impacted.	

Defect ID:	DEFECT000528657		
Technical Severity:	Medium	**Probability:**	Medium
Product: FOS		**Technology:**	Traffic Management
Reported In Release:	FOS7.2.0	**Technology Area:**	Name Server / Zoning
Symptom:	FCPD termination encountered when device sends malformed response with incorrect R_CTL information during FCP probing		
Condition:	This occurs only when the device reponds with malformed frames during FCP probing		

Defect ID:	DEFECT000528728		
Technical Severity:	Medium	**Probability:**	Medium
Product: FOS		**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.0.0	**Technology Area:**	Logging
Symptom:	Raslog messages C3-1006 followed by a C3-1010 message may be seen on a switch with no further operational impact.		
Condition:	Single bit correctable parity errors may cause these raslog events on 16G blades. These error are self-corrected and should not be reported. .		
Workaround:	Please contact Brocade support for further evaluation if necessary.		

Defect ID:	DEFECT000529602		
Technical Severity:	High	**Probability:**	Low
Product: FOS		**Technology:**	Distance
Reported In Release:	FOS7.3.0	**Technology Area:**	FCIP
Symptom:	Problem can occur if the TCP connections between the switches are bouncing during the tunnel creation or establishment processing.		
Condition:	During a time window, after a tunnel had informed its user of a connection request from the remote peer, the tunnel went down. The user then accepted the connection and was returned an error condition from the tunnel. The user did not properly check for an error return, and therefore did not close the connection out properly		

Defect ID:	DEFECT000529905		
Technical Severity:	Medium	**Probability:**	Medium
Product: FOS		**Technology:**	System
Reported In Release:	FOS7.1.1	**Technology Area:**	CLI
Symptom:	porterrshow may show discards occurring for a port disabled persistently, but portstatsshow output for the specific port indicate no discards.		

Condition: This discrepancy in output from the 2 CLI commands may be seen for persistently disabled ports.	

Defect ID:	DEFECT000530735	
Technical Severity:	High	**Probability:** Medium
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.3.0	**Technology Area:** FCIP
Symptom: 7840 switch unexpectedly reboots.		
Condition: Disabling and enabling of 7840 FC ports, which hosts are connected to, causes a slow memory leak. When continuously performs disabling and enabling FC ports for a long duration, eventually the 7840 switch runs out of memory and reboots.		

Defect ID:	DEFECT000531004	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.3.1	**Technology Area:** Web Tools
Symptom: Switch view image is not seen for Brocade 6545		
Condition: Launching WebTools for Brocade 6545		

Defect ID:	DEFECT000531192	
Technical Severity:	High	**Probability:** Medium
Product: FOS		**Technology:** FICON
Reported In Release:	FOS7.2.0	**Technology Area:** FICON CUP
Symptom: During firmware upgrade, hosts lost paths due to FICON filter that was not properly cleaned up.		
Condition: On a FMS CUP enabled switch, if trunk master goes offline first, after hafailover FICON CUP filter is not properly removed.		
Recovery: Bounce trunk ports		

Defect ID:	DEFECT000531265	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.3.0	**Technology Area:** Extended Fabrics
Symptom: During an upgrade of BR7800 from FOS v7.1.0 or later to FOS v7.1.2a, FOSv7.1.2b, FOSv7.3.0, v7.3.0a, v7.3.0b, v7.3.0c, the switch may go into a rolling reboot.		
Condition: This is encountered only if the switch was shipped with FOS7.1.0GA or later.		

Defect ID:	DEFECT000531269		
Technical Severity:	Medium	**Probability:** High	
Product: FOS		**Technology:** Virtualization	
Reported In Release:	FOS7.3.1	**Technology Area:**	Access Gateway
Symptom:	Static mapped F-ports do not come back online after reboot, while all the non-static mapped ports come back online after the reboot.		
Condition:	This is encountered when F-ports are statically mapped.		
Workaround:	Toggle the F-port manually.		
Recovery:	Disable and then enable the N-ports that the F-ports are static mapped to.		

Defect ID:	DEFECT000531517		
Technical Severity:	High	**Probability:** High	
Product: FOS		**Technology:** Traffic Management	
Reported In Release:	FOS7.0.2	**Technology Area:**	Port Bring-up
Symptom:	Link to host failed to come up when configured at 'Fixed 4 Gbps'. Trace dump shows that the host issued NOS/OLS/LIP primitives after speed negotiation, but the switch did not respond.		
Condition:	Switch port configured with "Fixed 4G" mode may get its RX incorrect when connected to 8G HBA in Auto Negotiate (AN) mode.		

Defect ID:	DEFECT000531571		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Traffic Management	
Reported In Release:	FOS7.0.0	**Technology Area:**	Port Bring-up
Symptom:	Port blade remained faulted after a power event.		
Condition:	This may occur in a rare scenario, when CP is up for a while and memory is utilized to cache file system buffers and a blade is power cycled. In this small timing window, this may lead to free memory not being readily available for blade initialization.		
Recovery:	slotpoweroff/on the blade to recovery		

Defect ID:	DEFECT000532108		
Technical Severity:	Medium	**Probability:**	Medium
Product:	FOS	**Technology:**	Security
Reported In Release:	FOS6.4.3_dcb	**Technology Area:**	Security Vulnerability
Symptom:	Security vulnerability CVE-2014-3566 makes it easier for man-in-the-middle attackers to obtain cleartext data via a padding-oracle attack.		
Condition:	Following are the conditions that customers of Brocade SAN products could be exposed to this vulnerability: • An end user must use a web browser to access the FOS WebTools interface or use other HTTP clients such as Brocade Network Adviser to manage the switch. • A web browser or other HTTP client must support SSL protocol 3.0. • An intruder has to interject between an HTTP client and a SAN switch. • An intruder has to spend time monitoring the request-response formats to gain knowledge of the system operations. Total of 256 SSL 3.0 requests are required to decrypt one byte of HTTP cookies.		
Workaround:	End users should configure web browsers or Brocade Network Advisor to disable SSLv3 support when accessing Brocade SAN switch. In addition, place Brocade SAN switch and other data center critical infrastructure behind firewall to disallow access from the Internet to minimize potential exposure to the attacks documented in this advisory.		

Defect ID:	DEFECT000532730		
Technical Severity:	Medium	**Probability:**	Low
Product:	FOS	**Technology:**	FICON
Reported In Release:	FOS7.2.0	**Technology Area:**	FICON CUP
Symptom:	Switch panic after Ficon daemon (FICUd) assert		
Condition:	Issue is exposed due to heavy kernel processing, which caused ficud sending CUEnd to the same logical path over and over again.		

Defect ID:	DEFECT000532816		
Technical Severity:	High	**Probability:**	Medium
Product:	FOS	**Technology:**	Traffic Management
Reported In Release:	FOS7.2.0	**Technology Area:**	Trunking
Symptom:	Traffic disruption in normal traffic encountered following an HA-failover during firmware upgrade.		
Condition:	This may happen when an E-port trunk port with FEC active bounces during HA-failover phase of the firmware upgrade process.		

Defect ID:	DEFECT000532851		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Security	
Reported In Release:	FOS7.3.0	**Technology Area:**	Security Vulnerability
Symptom:	Security vulnerability CVE-2009-1895 makes it easier for local users to leverage the details of memory usage.		
Condition:	The personality subsystem in the Linux kernel before 2.6.31-rc3 has a PER_CLEAR_ON_SETID setting does not clear the security-relevant compatibility flags when executing a setuid or setgid by a program, which makes it easier for local users to leverage the details of memory usage to (1) conduct NULL pointer dereference attacks,(2)bypass the mmap_min_addr protection mechanism, or(3)defeat address space layout randomization		

Defect ID:	DEFECT000532888	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** FICON
Reported In Release:	FOS7.1.0	**Technology Area:** FICON emulation
Symptom: I/O Errors to FICON extended device over an FCIP Tunnel with FICON Emulation features enabled.		
Condition: When running FICON channel programs to an extended device that includes Repeat Execution CCW commands (typically used in Disk I/O channel programs).		
Workaround: Disable the FCIP FICON emulation Idle Status Accept feature. The feature can be disabled via the following command: portcfg fciptunnel <slot/>vePort modify --ficon-debug NewFlags Where NewFlags includes the 0x1000 bit.		

Defect ID:	DEFECT000533000	
Technical Severity:	Low	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.2.1	**Technology Area:** Logging
Symptom: Execution of CLI command aaaconfig --auth "local;local" throws an error message that is misspelled.		
Condition: This is only encountered when the CLI command aaaconfig --auth "local;local" is run.		

Defect ID:	DEFECT000533329	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** System
Reported In Release:	FOS7.1.1	**Technology Area:** CLI
Symptom: CLI "portbuffershow" output showing higher than expected value of frame size.		
Condition: Sometime the output for command portbuffershow is over limit.		

Defect ID:	DEFECT000533925	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** FICON
Reported In Release:	FOS7.1.0	**Technology Area:** FICON emulation
Symptom: FCIP FICON Emulated Tape device failures with FICN-1062 in RASLOG and LastStates=0x0000423F443F		
Condition: When attempting to complete read processing and the device presents Device Busy		

then Device End, FICON emulation logic incorrectly generated a No-Op command with chaining instead of accepting the Device End Status.	
Workaround: Disable FICON Read Pipelining	

Defect ID: DEFECT000534282			
Technical Severity:	High	**Probability:** High	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS6.4.3	**Technology Area:**	Logging
Symptom: The raslog CDR-1008 may show up from time to time without presenting any problem for end to end traffic frames.			
Condition: This condition may occur due to CAM content discharge after the switch blade had been up for a long period of time, and needs to be refreshed.			
Recovery: If the raslog continues to show up, the user may power cycle the slot to recover.			

Defect ID:	DEFECT000534413		
Technical Severity:	Medium	**Probability:**	High
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.2.1	**Technology Area:**	Monitoring and Alerting Policy Suite (MAPS)
Symptom: "logicalgroup --show" command will show more ports than switch has under "ALL_PORTS" group. MAP-1003 RASLOG messages on non-existent ports.			
Condition: This issue happens if the customer has MAPS enabled and performs hafailover or migrate firmware to MAPS supported versions with online F_Port trunk.			
Workaround: Bring up the F_port trunk ports after hafailover,			

Defect ID:	DEFECT000534507		
Technical Severity:	High	**Probability:**	High
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.4.0	**Technology Area:**	FCIP
Symptom: Severe FICON workload disruption during 7840 HCL			
Condition: This is encountered when FCIP HCL is attempted on a single 7840 switch in a 7840 pair with HA and active FICON data flow,			
Workaround: Plan a disruptive firmware download.			

Defect ID:	DEFECT000535664		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.3.1	**Technology Area:**	FCIP
Symptom: BR7840 switch may go down as a result of DP crash from ECC errors in memory controller DIMMs.			
Condition: This may occur on BR7840 under rare situation, as a result of ECC errors.			

Defect ID:	DEFECT000536455		
Technical Severity:	High	**Probability:**	Low
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.3.0	**Technology Area:**	Platform Services
Symptom: Both Active and Standy CPs panic in a director while processing Read Diagnostic Parameters (RDP) Extended Link Service (ELS) request from local device.			
Condition: This is triggered by a race condition when a local device repeatedly sends unsolicited RDP ELS request and the switch is running FOS7.3.0 or above.			
Workaround: Disable device port capable of RDP			

Defect ID:	DEFECT000536632	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.4.0	**Technology Area:** POST - Power-on Self-Test
Symptom: Diagnostic test "systemverification" failed with "NON_DIAG errors detected during run"		
Condition: This is encountered when running systemverification test on BR7840		

Defect ID:	DEFECT000536832	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Traffic Management
Reported In Release:	FOS7.4.0	**Technology Area:** In-flight Compression
Symptom: Port does not come online and raslog is flooded with the following message: "Brocade6520, S0,P51(114): Port is offline due to Encryption Compression Block error."		
Condition: This is seen when Inflight Encryption is enabled on an Ex-Port.		

Defect ID:	DEFECT000537093	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.1.1	**Technology Area:** OSTP - Open Systems Tape Pipelining
Symptom: Timeouts after Reservation Conflict Status with tape devices when Fastwrite and Tape-pipelining are enabled		
Condition: This occurs when multiple servers attempt to reserve the same tape device over OSTP enabled tunnel.		
Workaround: Disable OSTP on the FCIP Tunnel		

Defect ID:	DEFECT000537847	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** System
Reported In Release:	FOS6.3.2	**Technology Area:** CLI
Symptom: Special characters " and $ do not work properly when used in password for CLI "configupload". Other special characters like ! \ < > ( ) ` & ' | and space may appear to not work for passwords, when used in command line mode.		
Condition: " and $ may not work for interactive as well as command line modes in CLI such as "configdownload". Other special characters may appear to not work only for		

command line mode.			
Workaround:	These special characters need to be ESC'd (add \ before each occurrence of special character) in command line mode in order to get through bash interception/interpretation.		

Defect ID:	DEFECT000537848		
Technical Severity:	High	**Probability:**	Medium
Product:	FOS	**Technology:**	Traffic Management
Reported In Release:	FOS7.4.0	**Technology Area:**	FC-FC routing
Symptom:	Host is unable to discover target devices in an Edge-to-Edge FCR topology.		
Condition:	When some of the edge fabric switches having trunked IFLs are rebooted, resulting in Fabric ID conflicts in any of the backbone fabric FCRs, a few hosts may not be able to discover targets.		
Recovery:	Enable any EX_ports that have been disabled as a result of fabric ID conflict and disable / enable the edge switch FC ports of affected hosts.		

Defect ID:	DEFECT000538051		
Technical Severity:	High	**Probability:**	High
Product:	FOS	**Technology:**	FICON
Reported In Release:	FOS7.3.0	**Technology Area:**	FICON emulation
Symptom:	BR7840 FICON Emulation OXID usage overlap causes Interface Control Check error messages on the mainframe console.		
Condition:	The issue can occur anytime when two or more devices are active in FICON emulation over an FCIP tunnel.		
Workaround:	Disable FICON emulation features on the FCIP Tunnel.		

Defect ID:	DEFECT000538092	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Virtualization
Reported In Release:	FOS7.2.1	**Technology Area:** Access Gateway
Symptom:	Following a FOS firmware upgrade or hareboot, traffic to and from the Access Gateway stops after the N-Port trunk master is disabled.	
Condition:	This issue will occur when the following conditions occur: - hareboot for any reason, including firmwaredownload. - N-port trunk with at least two trunk members. - Trunk master of the N-port trunk is disabled.	
Workaround:	Never disable the N-port trunk master when other trunk members are online. Instead, always disable all trunk members. Trunk slaves can be disabled with no issue.	
Recovery:	To recover, do one of two things: 1. Bounce a host F_port on the Access Gateway. Or, 2. Disable all trunk members and then enable all trunk members.	

Defect ID:	DEFECT000538492	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Distance
Reported In Release:	FOS7.3.0	**Technology Area:** OSTP - Open Systems Tape Pipelining
Symptom:	Error recovery issue when the last write in a small write block is dropped.	
Condition:	Data Integrity Error can be exposed when the Last Write Data Frame in a small write (8k) Across 7840 FCIP Tunnel when TP is on.	

Defect ID:	DEFECT000539167	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.1.1	**Technology Area:** Web Tools
Symptom:	Weblinker termination when the TACACS+ server is unreachable	
Condition:	Happens only when user tries to login to switch which has unreachable TACACS+ server for authentication.	
Workaround:	Use local or other remote authentication(LDAP/RADIUS) for login	

Defect ID:	DEFECT000539290	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Traffic Management

Reported In Release:	FOS7.2.1	Technology Area:	Buffer Credit Recovery
Symptom:	On internal back end (BE) link with 16G core blade to 8G edge blade, credit is not automatically recovered.		
Condition:	In the case of 16G core blade to 8G edge blade direction, if there is credit loss on VC and the "creditrecovmod --cfg onLROnly" command is not enabled in an early release, then once the 16G credit leak interrupt is triggered, the credit leak interrupt enabled bits will not be enabled again.		
Workaround:	Run creditrecovmod --cfg onLROnly before credit is depleted.		
Recovery:	Slotpoweroff /on core blade to recover the BE link		

Defect ID:	DEFECT000539576		
Technical Severity:	High	**Probability:** High	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.2.1	**Technology Area:**	supportShow
Symptom: TRCE-1005 will be triggerd when autoftp feature is enabled with SCP protocol.			
Condition: Happens only on systems configured with SCP protocol.			
Workaround: Use FTP or SFTP instead of SCP			

Defect ID:	DEFECT000539670		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.4.0	**Technology Area:**	Platform Services
Symptom: BR7840 becomes unusable after Firmware download from FOS7.4.0 to FOS7.3.x. Switch may show faulty rc=20015 status			
Condition: Failure may occur during the switch downgrade of FOS from FOS 7.4.0 to FOS7.3.0x on a BR7840.			
Recovery: Power cycle the failed BR7840.			

Defect ID:	DEFECT000540035		
Technical Severity:	Medium	**Probability:** High	
Product: FOS		**Technology:** Management	
Reported In Release:	FOS7.3.1	**Technology Area:**	Licensing
Symptom: There is a new business requirement to offer a 20 port version of the Brocade 5432 switch plus 4 "port on demand" licensed ports.			
Condition: POD was not supported before.			
Recovery: Upgrade to the new FOS version to limit the switch to 20 licensed ports. To enable the additional 4 ports, the customer would need to purchase and install the POD license.			

Defect ID:	DEFECT000540245		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.1.0	**Technology Area:**	FCIP
Symptom: Tunnels bounce caused FFDC event.			
Condition: This may occur if a FICON frame sequence is received with FC type of 0x1B or			

0x1C, with one SOFi3 frame followed by more than 13 SOFn3 frames in sequence on an FCIP Tunnel. This is probably caused by a failed FICON adapter in a connected device.

Defect ID:	DEFECT000540469		
Technical Severity:	Medium	**Probability:** Medium	
Product: FOS		**Technology:** FICON	
Reported In Release:	FOS7.1.0	**Technology Area:**	FICON emulation
Symptom: Channel Detected Error message after a tape job failure.			
Condition: When running a tape write job that experiences a timeout (due to FC CRC errors occurring during the IO), the job will normally detect an MIH failure and go through error recovery and the error recovery could encounter the invalid token CDE.			
Workaround: Disable FICON Tape Pipelining or correct the cause of the FC CRC errors.			

Defect ID:	DEFECT000540585		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.2.1	**Technology Area:**	supportShow
Symptom: Support Save output does not include VE or GE port information			
Condition: This is seen after multiple logical switches have been created and one or more of the logical switches have been deleted and the VE ports reside in a logical switch that was created after one that was deleted.			
Workaround: Recreate empty logical switches up to the limit of logical switches in that chassis.			

Defect ID:	DEFECT000540694		
Technical Severity:	Critical	**Probability:**	High
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.2.1	**Technology Area:**	Top Talker Monitors
Symptom: Switch repeatedly logs the following raslog message: "[PS-1009], 16386, SLOT 7 | FID 128, WARNING, , Failed to add the device updates in condb database." This can mislead the customer on the number of devices supported by name server, zoning and device connectivity.			
Condition: This happens when there are large number of devices zoned together and with "Performance Monitor license". There is no impact to device connectivity, but Top talkers may not be able to display the top talking flows			

Defect ID:	DEFECT000541322		
Technical Severity:	High	**Probability:**	High
Product: FOS		**Technology:** FICON	
Reported In Release:	FOS7.4.0	**Technology Area:**	FICON emulation
Symptom: IOS050I CHANNEL DETECTED ERROR message on mainframe console after 0x70 Status from XRC primary controller.			
Condition: This is seen during FCIP FICON XRC emulated tunnel processing of 0x70 Status from the connected DASD controller.			
Workaround: Disable FICON XRC Emulation on the FCIP Tunnel.			

Defect ID:	DEFECT000541661		
Technical Severity:	Medium	**Probability:**	Medium
Product: FOS		**Technology:** Virtualization	

Reported In Release:	FOS7.2.1	Technology Area:	Virtual Fabrics
Symptom:	Active CP Panic may occur while running Brocade SAN Health report.		
Condition:	This may be encountered in a large virtual fabric environment when running back to back CLI commands "lfcfg --showall -xxxx"		

Defect ID:	DEFECT000542559		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Distance	
Reported In Release:	FOS7.4.0	**Technology Area:**	FCIP
Symptom:	Tunnel bounce with an associated BLS-5024 FFDC event.		
Condition:	This issue can occur after FCIP tunnel bounces due to WAN outage or other network issue.		

Defect ID:	DEFECT000543727		
Technical Severity:	Low	**Probability:**	Low
Product:	FOS	**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:**	Logging
Symptom:	The CP flash drive can run low on space due to the /var/log/esmd_lib.log file growing too large.		
Condition:	The problem may occur on any switch other than the Brocade 7840 switch, when running with FOS7.3.0x and FOS7.3.1. The problem will not occur on the Brocade 7840 switch.		
Recovery:	Manually delete the /var/log/esmd_lib.log file.		

Defect ID:	DEFECT000544649		
Technical Severity:	Medium	**Probability:**	Low
Product:	FOS	**Technology:**	System
Reported In Release:	FOS7.3.0	**Technology Area:**	CLI
Symptom:	Switch/CP panic with fabricd process terminated.		
Condition:	When a lots of "fabriclog -s" commands are executed simultaneously.		
Workaround:	Allow the CLI to finish before start another one.		

Defect ID:	DEFECT000544986		
Technical Severity:	Low	**Probability:**	High
Product:	FOS	**Technology:**	System
Reported In Release:	FOS7.3.1	**Technology Area:**	Optics
Symptom:	The CLI command "sfpshow <slot/port>" always returns a zero in "Length 50u (OM3)" field.		
Condition:	This is seen only for OM3 50um QSFPs		

Defect ID:	DEFECT000548463		
Technical Severity:	Medium	**Probability:**	Low
Product:	FOS	**Technology:**	Traffic Management
Reported In Release:	FOS7.1.1	**Technology Area:**	Port Bring-up
Symptom:	Kernel panic encountered on a CP while taking over the Active Role, due to heartbeat loss, causing a cold recovery of the system.		
Condition:	This may be encountered only when processing FDISC with duplicate PWWNs.		

Defect ID:	DEFECT000508980		
Technical Severity: High		Probability: Low	
Product: FOS		Technology: Management	
Reported In Release:	FOS7.2.0	Technology Area:	CLI
Symptom:	The SSH server is configured to allow either MD5 or 96-bit MAC algorithms, both of which are considered weak		
Condition:	Users may be vulnerable when using SSH to login to a switch.		
Workaround:	Users can use stronger MAC algorithms when using SSH clients connecting to a switch.		

Closed without Code Change in Fabric OS v7.4.0

This section lists the defects with Critical, High and Medium Technical Severity closed without a code change as of March 31, 2015 in Fabric OS v7.4.0

Defect ID:	DEFECT000395600		
Technical Severity:	High	**Probability:**	Low
Product:	FOS	**Technology:**	Other
Reported In Release:	FOS7.0.1	**Technology Area:**	Other
Symptom:	Slow response to VLAN requests from CNA on 8000 switch		
Condition:	Operating system network unable to get VLAN requests in a timely manner		

Defect ID:	DEFECT000406288		
Technical Severity:	Medium	**Probability:**	Low
Product:	FOS	**Technology:**	Security
Reported In Release:	FOS6.4.2	**Technology Area:**	Fabric Authentication
Symptom:	Customer is not able to login with webtools or BNA with Radius.		
Condition:	Radius server blocked cusotmer login with "Radius" only configuration, running commands with double quotes worked: aaaconfig --authspec "radius:local"		
Workaround:	need to modify the control flag to SUFFICIENT in the pam configuration files login.radius , login.tacplus and login.adldap.		

Defect ID:	DEFECT000449902		
Technical Severity:	Medium	**Probability:**	High
Product:	FOS	**Technology:**	Management
Reported In Release:	FOS7.1.1	**Technology Area:**	Web Tools
Symptom:	WebTools and Brocade Network Advisory do not prompt user to place switch offline/online when changing the port configuration policy change in Access Gateway.		
Condition:	When changing the port configuration policy between Auto policy and Port Group, WebTools and Brocade Network Advisor do not prompt user to place switch offline then online.		
Workaround:	Manually place the switch offline then online when change the Access Gateway port configuration policy for updates to take effect.		

Defect ID:	DEFECT000468595		
Technical Severity:	High	**Probability:**	Low
Product:	FOS	**Technology:**	Management

Reported In Release:	FOS7.2.0	Technology Area:	SNMPv2, SNMPv3 & MIBs
Symptom: SNMP did not restore all SNMPv1 and accesscontrol settings with configdownload			
Condition: Trap recipient and access control keys will not be restored on configdownload.			
Workaround: Use the snmpconfig command to configure the settings.			

Defect ID:	DEFECT000470918		
Technical Severity:	High	**Probability:** High	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.2.0	**Technology Area:**	POST - Power-on Self-Test
Symptom: POST tests do not run when standard and extended levels of testing are chosen from CMM.			
Condition: Issue happens when post test is triggered from CMM on embedded switch.			

Defect ID:	DEFECT000482787	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Virtualization
Reported In Release:	FOS6.2.2	**Technology Area:** Access Gateway
Symptom: Sometimes F-Port failover is not working on Access Gateway switch.		
Condition: On a switch running FOS v6.2.2x in Access Gateway mode: - Configure two N_ports (ports 17 and 18) - Map F_ports 1, 2, 3, 4 0 to Nport 18 - Map F_ports 5, 6, 7, 8 to Nport 17 - Failover policy is enabled (FO=1) and Failback policy is disabled (FO=0) - Policy is set to auto Disables port 18 with the expectation that F_ports 5,6,7,8 should failover, but switchshow indicates F_port disabled because there is no N_port		

Defect ID:	DEFECT000486793	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.0.2	**Technology Area:** Fabric Watch
Symptom: CONF-1003 message will be seen when FW pause/continue options are used with - all in FOSv7.x.		
Condition: It happens only if the customer has stale keys from FOS v6.4.x or modified default FW keys.		
Workaround: Avoid using pause/continue with -all option.		

Defect ID:	DEFECT000488667	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.2.1	**Technology Area:** Flow Vision: Flow Monitor
Symptom: LUN Flow monitors on DCX/DCX-4S ingress port shows zero count.		
Condition: When user installs a LUN flow monitor on the ingress port of DCX/DCX-4S, counters will always show zero count.		
Workaround: User can install LUN flow monitor on egress port.		

Defect ID:	DEFECT000492786	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In	FOS7.0.2	**Technology** Fabric Watch

Release:	Area:
Symptom: Customer can change the "thresh.env" and "thresh.res" (chassis settings) from the Logical Switch even if the user does not have chassis wide permissions.	
Condition: An account(admin/root) on a specific logical switch with chassis role user are allowed to change the chassis wide parameters when fwsettocustom and fwsettodefault are used.	

Defect ID: DEFECT000498132	
Technical Severity: Medium	**Probability:** Medium
Product: FOS	**Technology:** Monitoring/RAS
Reported In Release: FOS7.1.1	**Technology Area:** Fabric Watch
Symptom: Configured actions for SFP monitoring will not be taken for a port if the 8G and 16G SPFs are interchanged for that port.	
Condition: It happens only when 8G SFP is replaced by 16G or vice versa.	

Defect ID:	DEFECT000498502	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:** Flow Vision: Flow Generator
Symptom: When user creates a WWN flow with a SID/DID and also creates a PID flow with same SID/DID while the DID is offline, both the flows would be activated but not enforced. These flows would be duplicate of one another.		
Condition: User creates a WWN flow and a PID flow with same resultant SID/DID.		

Defect ID:	DEFECT000499816	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Other
Reported In Release:	FOS7.0.2	**Technology Area:** Other
Symptom: CT commands do not appear to be forwarded to Name Server from FCoE device		
Condition: When attempting to bring an FCoE CNA online, the CNA is unable to discover any storage.		

Defect ID:	DEFECT000500959	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Other
Reported In Release:	FOS7.3.0	**Technology Area:** Other
Symptom: Framelog does not log unroutable frames.		
Condition: When there are unrouteable frames during the HA failover recovery period.		
Recovery: Unroutable frames will log after the system is in sync again		

Defect ID:	DEFECT000501004	
Technical Severity:	High	**Probability:** Low
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:** Flow Vision: Flow Generator
Symptom: portperfshow continues to display flow generator traffic running when flows were deactivated.		
Condition: HA failover following a series of activate/deactivate of a flow repeatedly, then deactivate the flow after HA failover.		
Recovery: Activate and deactivate the flow again.		

Defect ID:	DEFECT000503823		
Technical Severity:	High	**Probability:** Low	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.3.0	**Technology Area:**	APM - Advanced Performance Monitoring
Symptom:	Fabric mode toptalker may not display actual toptalking flows if more than 1024 sid-did pairs are zoned with devices in the local switch.		
Condition:	More than 1024 sid-did pairs are zoned for devices in local switch		
Workaround:	Reduce the number of zone sid-did pairs		

Defect ID:	DEFECT000512005	
Technical Severity:	High	**Probability:** High
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.2.0	**Technology Area:** Platform Services
Symptom:	"disable external ports" followed by "enable external ports" on embedded switch CMM interface (GUI or CLI), leads to changing external port speed from Auto Negotiate to 16Gb fixed.	
Condition:	BR6547 embedded switch after "disable external ports" followed by "enable external ports" using CMM interface.	
Recovery:	Reconfigure the external port speed to Auto Negotiate.	

Defect ID:	DEFECT000512057	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.2.0	**Technology Area:** Fabric Watch
Symptom:	Error messages start after firmware update from FOS v7.0.x to FOS v7.1.x and continue when upgrading to FOS v7.2.x. After downgrading back to 7.0.x, faulty port messages stop from Fabric Watch.	
Condition:	Running FOS 7.1 and above, with a port remains in passive mode, which would simply complete speed negotiation and failing link init, results in FW-xxxx flood in RAS log.	
Workaround:	Disable the port that does not cut off light	

Defect ID:	DEFECT000512726	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.0.2	**Technology Area:** Fabric Watch
Symptom:	Multiple FW-1038 and FW-1042 messages reported, indicating that the SFP RX and TX power are below boundary - current value 0 uwatts.	
Condition:	This may occur only when a switch CPU is very busy.	

Defect ID:	DEFECT000513542	
Technical Severity:	Medium	**Probability:** Low
Product: FOS		**Technology:** Management
Reported In Release:	FOS7.3.0	**Technology Area:** CLI
Symptom:	The "switchUptime" command executed via remote fosexec command (with --	

	domain option) returns error message "error opening /etc/fabos/datefile".
Condition:	When remote domain is a logical switch that has no physical ports, the "switchUptime" command will not working through fosexec.

Defect ID:	DEFECT000513776		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Other	
Reported In Release:	FOS7.3.0	**Technology Area:**	Other
Symptom:	Name Server (NS) queue full condition leads to NS out of sync with local/remote devices and the device connectivity info will become inconsistent.		
Condition:	When a new switch, which is in AllAccess mode and has local attached deviced, joins a large fabric consisting of a large number of devices (> 1000) and a large zone configuration (around 1MB) enabled, there is a possibility that the customer may see NS queue full condition. This happens due to Name Server discovery occurring before the existing fabric's zone configuration getting merged across to the new switch.		
Workaround:	There are a couple workarounds for such a scenario and they are part of best-practices strategy for large fabrics. 1. When connecting a new switch to a fabric, put it in NoAccess mode. This will avoid the momentary transition to AllAccess and resultant RSCN storm to the fabric. 2. If connecting a new switch in AllAccess mode, take all devices connected to that switch offline to prevent RSCN storm.		
Recovery:	Reboot the switch to recover from the error condition.		

Defect ID:	DEFECT000515690		
Technical Severity:	Medium	**Probability:** High	
Product: FOS		**Technology:** Monitoring/RAS	
Reported In Release:	FOS7.1.1	**Technology Area:**	APM - Advanced Performance Monitoring
Symptom:	In virtual fabric, some settings (fabricprincipal, sysmonitor, thconfig, portthconfig -- pause/continue) are not updated in switch by configdownload operation.		
Condition:	configupload with one configuration and configdownload with modified configuration.		

Defect ID:	DEFECT000518620		
Technical Severity:	High	**Probability:** Medium	
Product: FOS		**Technology:** Other	
Reported In Release:	FOS7.2.1	**Technology Area:**	Other
Symptom:	Activation of the auto-tuning (serdestunemode --autoenable) on a switch that is also running MAPS could result in the MAPS daemon to restart. HA Sync will be		

	temporarily lost during this time for each tuning value applied. Customer may see critical RASLOG errors such as [MAPS-1021] and multiple [MAPS-1020]
Condition:	This happens when MAPS and auto-tuning are both enabled.
Workaround:	Contact Brocade support to disable MAPS prior to running auto-tuning.
Recovery:	If auto-tuning is already started, let auto-tuning to run to completion. Do not stop auto-tuning prematurely and leave a sub-optimal value on the system, which could trigger blade fault.

Defect ID:	DEFECT000519293		
Technical Severity:	Medium	**Probability:**	High
Product:	FOS	**Technology:**	Management
Reported In Release:	FOS6.4.3	**Technology Area:**	Web Tools
Symptom:	HAfailover is triggered by low memory condition.		
Condition:	Switch is monitored by BNA and switch has ports with custom bottleneck settings		

Defect ID:	DEFECT000521209	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:** POST - Power-on Self-Test
Symptom: POST tests do not run as expected using CMM.		
Condition: Issue happens when POST tests are verified through CMM on embedded switches.		

Defect ID:	DEFECT000521344	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.1.2	**Technology Area:** Fabric Watch
Symptom: Configuring porthconfig with area ST posts continuous alerts even after being in the same state.		
Condition: Configure ST area for portclasses(port/eport/fport/fcuport classes)		

Defect ID:	DEFECT000523507	
Technical Severity:	Medium	**Probability:** Medium
Product: FOS		**Technology:** Monitoring/RAS
Reported In Release:	FOS7.1.2	**Technology Area:** Fabric Watch
Symptom: Fabric Watch ST area of SFP class does not change to "pause" when executing CLI " thconfig --pause sfp -area all -port all" or gives any error to indicate that it's not supported.		
Condition: The issue is seen only when the ST area option is used with SFP class. ST is already deprecated in FOS v7.0.0 and no longer supported.		

Defect ID:	DEFECT000523910	
Technical Severity:	Medium	**Probability:** High
Product: FOS		**Technology:** Other
Reported In Release:	FOS7.3.0	**Technology Area:** Other
Symptom: Debug messages appear on the console during portloopbacktest on a 16G platform.		
Condition: Portloopbacktest with default options from command line will result in debug messages displayed that has no impact to functionality		

Defect ID:	DEFECT000524476	
Technical Severity:	High	**Probability:** Medium

Product: FOS	Technology: FICON
Reported In Release: FOS7.3.0	Technology Area: FICON
Symptom: Unable to view switch partitions and their port details through BNA.	
Condition: A logical switch having more than 256 ports, not including ICLs, that show the "No area available for PID assignment" message in switchshow.	

Defect ID: DEFECT000526298	
Technical Severity: Medium	Probability: High
Product: FOS	Technology: Monitoring/RAS
Reported In Release: FOS7.1.2	Technology Area: Fabric Watch
Symptom: Event values that occur when portthconfig --pause is used are displayed after portthconfig --continue is executed.	
Condition: When a port is paused for certain class and area and enabled later it still has the previous values which it had during pause.	

Defect ID:	DEFECT000527025		
Technical Severity:	Medium	**Probability:**	Medium
Product: FOS		**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.3.0	**Technology Area:**	APM - Advanced Performance Monitoring
Symptom:	CLI command fmmonitor --delmonitor <fmtype> -port 2/2 returns with "Specified Frame type doesn't exist on the specified port" even though a new fm-type was created and added to port 2/2.		
Condition:	This may be seen when user moves the frame monitor installed port from one logical switch to another and then moves back the same port to the original logical switch		

Defect ID:	DEFECT000528396		
Technical Severity:	Medium	**Probability:**	Low
Product: FOS		**Technology:**	Monitoring/RAS
Reported In Release:	FOS6.4.3	**Technology Area:**	Fabric Watch
Symptom:	Switch status changes to MARGINAL and back to HEALTHY with no contributing factor reported.		
Condition:	Transient condition with no impact to traffic, switch, or fabric.		

Defect ID:	DEFECT000529173		
Technical Severity:	Medium	**Probability:**	Medium
Product: FOS		**Technology:**	Management
Reported In Release:	FOS6.4.2	**Technology Area:**	Web Tools
Symptom:	'resource not available' error message observed when configuring SCSI Monitors		
Condition:	Configuring SCSI monitors with more than 4 LUN numbers		

Defect ID:	DEFECT000529761		
Technical Severity:	High	**Probability:**	Medium
Product: FOS		**Technology:**	Security
Reported In Release:	FOS6.3.0	**Technology Area:**	Security Vulnerability
Symptom:	Bash shell security vulnerabilities (CVE-2014-6271, CVE-2014-7169, CVE-2014-7186, CVE-2014-7187). These vulnerabilities allow certain malformed function definition to bypass privilege boundaries and execute unauthorized commands.		
Condition:	To exploit these vulnerabilities in FOS requires access to the CLI interface after user authentication through console, Telnet, and SSH connections. An authenticated user account could exploit this bug to gain privileges beyond the permission granted		

to this account, such as executing commands with root privilege.	
Workaround: Place switch and other data center critical infrastructure behind firewall to disallow access from the Internet; Change all default account passwords; Delete guest accounts and temporary accounts created for one-time usage needs; Utilize FOS password policy management to strengthen the complexity, age, and history requirements of switch account passwords. Upgrading to a FOS version including this fix prevents exposures to the four CVEs noted in the defect Symptom. In addition, exposures to CVE-2014-6277 and CVE-2014-6278 are prevented.	

Defect ID:	DEFECT000529904		
Technical Severity:	High	**Probability:** High	
Product:	FOS	**Technology:** Traffic Management	
Reported In Release:	FOS7.3.1	**Technology Area:**	Port Bring-up
Symptom:	Bounced ISL links may not come back to full speed setting when port speed is set to AN.		
Condition:	This can only happen during hafailover with a fabric rebuild. This results from all ISL's going down at the same time.		
Recovery:	Bounce ports to recover from this situation.		

Defect ID:	DEFECT000532529		
Technical Severity:	Medium	**Probability:** Medium	
Product: FOS		**Technology:** System	
Reported In Release:	FOS6.4.3_dcb	**Technology Area:**	Component
Symptom: Switch detected sshmd panic after experience PCI abort error with FCOE switch with raslog [EANV-1006] and fail over application did not kick in caused fabric disruption.			
Condition: Switch is not properly faulted after FCOE ASIC reached PCI abort error threshold.			

Defect ID:	DEFECT000533496		
Technical Severity:	High	**Probability:** High	
Product: FOS		**Technology:** Other	
Reported In Release:	FOS7.2.1_HIL	**Technology Area:**	Other
Symptom: When delete domain is performed along with CSP zeroize option on FIPS enabled module, N-ports do not login.			
Condition: This issue was caused by asynchronous handling of delete domain and CSP zeroize, which were started simultaneously.			
Workaround: Do not zeroize CSPs when deleting domain.			
Recovery: Delete domain without CSP zeroize.			

Defect ID:	DEFECT000538046		
Technical Severity:	Medium	**Probability:** Low	
Product: FOS		**Technology:** System	
Reported In Release:	FOS7.1.1	**Technology Area:**	Component
Symptom: Fabric Watch terminates in a busy system causing switch reboot.			
Condition: Uncommonly occurs on systems that is very busy.			

Defect ID:	DEFECT000539396		
Technical Severity:	Medium	**Probability:** Low	
Product: FOS		**Technology:** Traffic Management	
Reported In Release:	FOS6.4.3	**Technology Area:**	Port Bring-up
Symptom: Standby CP goes into rolling reboot and encounters an assert. The CPs are unable to gain HA synchronization.			
Condition: Can be triggered by HA sync timing issue or bad hardware			

Defect ID:	DEFECT000540101		
Technical Severity:	High	Probability:	High
Product:	FOS	Technology:	Monitoring/RAS
Reported In Release:	FOS7.2.1	Technology Area:	Monitoring and Alerting Policy Suite (MAPS)
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:	DEFECT000540198		
Technical Severity:	High	**Probability:**	High
Product:	FOS	**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.1.2	**Technology Area:**	Fabric Watch
Symptom:	FW RAS message encountered, indicating switch status state change while LOS (Loss of signal) area of fop-port class is paused. This is not the case when LF(Link failure) area of fop-port class is paused,		
Condition:	This is encountered when LOS area systemmonitor is configured as pause, and switch status policy is configured as based on port class.		

Defect ID:	DEFECT000540638		
Technical Severity:	Medium	**Probability:**	Medium
Product:	FOS	**Technology:**	System
Reported In Release:	FOS6.4.3	**Technology Area:**	Component
Symptom:	Software verify on console log, followed by Kernel Panic on 4G platform.		
Condition:	This may be seen with 4G platforms after it is in operation for a longer period of time spanning over a year.		
Recovery:	In director, power cycle the blade in question to recover. In switch, the panic will automatically recover from this condition.		

Defect ID:	DEFECT000542014		
Technical Severity:	High	**Probability:**	High
Product:	FOS	**Technology:**	System
Reported In Release:	FOS6.4.3_dcb	**Technology Area:**	Component
Symptom:	FCOE based switch is falsely faulted with PCI abort error after the system is running low on memory.		
Condition:	FCOE switch is managed through BNA via in-band management, and doing SNMP query		
Workaround:	Do not manage the switch via any application that send SNMP query.		
Recovery:	Power cycle switch		

Defect ID:	DEFECT000544788		
Technical Severity:	Medium	**Probability:**	High
Product:	FOS	**Technology:**	Monitoring/RAS
Reported In Release:	FOS7.2.1	**Technology Area:**	Frame Monitoring
Symptom:	CP reboots after perfttmon -del <port> and then running perfttmon --show <port>		

	in fabricmode top talkers.
Condition:	Happens only when TT monitor is configured for fabricmode and show CLI is executed with port number that is already deleted.