

Dell Connectrix® B-Series
Fabric OS
Version 8.2.3b

Release Notes

Rev 12

January 24, 2022

These release notes contain supplemental information about this release of Fabric OS.
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Revision History

The following table represents the revision history of this document that Dell EMC has published.

Table 1 **Revision History (page 1 of 2)**

Version	Date	Description
8.2.3b Rev 12	Jan. 24, 2022	patch release
8.2.2c6 Rev 11	Sept. 7, 2021	patch release
8.2.2d4 Rev 10	Sept. 7, 2021	patch release
8.2.3a Rev 09	July 12, 2021	patch release
8.2.3 Rev 08	March 15, 2021	maintenance release
8.2.2d Rev 07	Oct. 26, 2020	patch release
8.2.2c Rev 06	Sept. 7, 2020	patch release
8.2.2b Rev 05	Mar. 30, 2020	patch release
8.2.2a Rev 04	Jan. 20, 2020	patch release
8.2.2 Rev 03	Oct. 28, 2019	maintenance release
8.2.1e Rev 06	Sept. 14, 2020	patch release
8.2.1d Rev 05	Feb. 10, 2020	patch release
8.2.1c Rev 02	July 29, 2019	patch release
8.2.1a Rev 01	Jan. 14, 2019	major release
8.2.0b Rev 02	June 4, 2018	patch release
8.2.0a Rev 01	April 9, 2018	major release
8.1.2j Rev 11	Jan. 20, 2020	patch release
8.1.2h Rev 10	Aug. 12, 2019	patch release
8.1.2g Rev 09	July 1, 2019	patch release
8.1.2f Rev 08	Oct. 29, 2018	patch release
8.1.2d Rev 07	June 18, 2018	patch release
8.1.2b Rev 06	Apr. 23, 2018	patch release
8.1.2a Rev 05	Dec. 18, 2017	patch release
8.1.1a Rev 04	Oct. 16, 2017	patch release
8.1.1 Rev 01	Apr. 4, 2017	new release
8.1.0c Rev 03	Oct. 11, 2017	patch release
8.1.0a Rev 02	July 10, 2017	new release

Table 1 Revision History (page 2 of 2)

Version	Date	Description
8.1.0a Rev 01	Apr. 16, 2017	major release
8.0.2f Rev 11	Oct. 29, 2018	patch release
8.0.2d Rev 10	Jan.8, 2018	patch release
8.0.2c Rev 07	Apr. 23, 2018	patch release
8.0.2b Rev 05	May 29, 2017	patch release
8.0.2b Rev 09	June 26, 2017	patch release
8.0.1b Rev 08	July 10, 2019	patch release
8.0.1b Rev 06	Nov. 16, 2017	patch release
8.0.1b Rev 04	May 29, 2017	patch release
8.0.1b Rev 03	Aug. 19, 2016	patch release
8.0.1a Rev 02	Aug. 15, 2016	major release
8.0.0 Rev 01	Apr. 11, 2016	major release

Product description

Fabric OS 8.2.3b is a patch release based on Fabric OS 8.2.3a. All hardware platforms and features supported in FOS 8.2.3 and 8.2.2, including patch releases of FOS 8.2.2a, 8.2.2b, 8.2.2c and 8.2.2d, are also supported in FOS 8.2.3b.

FOS v8.2.3b contains minor enhancements and fixes for the defects.

Note: Target Releases are the recommended firmware versions to deploy because they are built upon mature and stable code streams with the most recently resolved defects. The latest Target Releases for Connectrix Directors and Switches can be found in the Connectrix section at

https://support.emc.com/docu39695_Target-Revisions-and-Adoption-Rates.pdf?language=en_US

New hardware support

No new hardware supported with this release.

Deprecated Hardware

None

Resolution of Important Defects

This release provides the following important defect fixes:

- * **FOS-831875** — SNMP application may lose connection to switch momentarily during snmp walk of IPV6 address table and occasionally the user may observe CP lost HA SYNC if the walk is performed during hafailover/hareboot.

- ‡ **FOS-832434** — After upgrading Brocade 6548 to FOS 8.2.3a, the user is unable to login to the switch, with the following error: login: admin "Inconsistency de" -Note: traffic may be impacted too.
- ‡ **FOS-833935** — Management application encounters errors after webtool runs out of file descriptor on switches with LDAP configuration.
- ‡ **FOS-834912** — SANnav reports error: "Registration for telemetry profile 'xxx' has failed and Switch panic after cald termination.
- ‡ **FOS-836031** — Switch panic after FDMI daemon terminated.
- ‡ **FOS-836265** — During code upgrade from FOS v8.2.1x to FOS v8.2.3x, FOS cannot completely be brought up due to **cald core dumps**. User will observe the switch hanging if **cal.esrs** configuration keys are present.

Software Upgrades and Downgrades

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

Software Features

The following sections list new, modified, and deprecated software features for this release.

Enhancements in FOS 8.2.3b

None

Supported switches

Fabric OS v8.2.3b supports the DS-6505B, MP-7840B, DS-6510B, DS-6520B, ED-DCX8510-8B, ED-DCX8510-4B, DS-6610B, DS-6620B, ED-DCX6-4B, ED-DCX6-8B, DS-6630B and MP-7810B.

Fabric OS v8.2.3b does NOT support the following platforms and cannot be loaded on them, though the switches listed below may participate in the same fabric as the DS-6505B, DS-6510B, DS-6520B, ED-DCX8510-8B, ED-DCX8510-4B, DS-6610B, DS-6620B, DS-6630B, ED-DCX6-4B and ED-DCX6-8B, MP-7840B, MP-7810B, using FOS v8.2.3b:

- ‡ MP-7800B
- ‡ DS-300B

For the versions of FOS codes that must be used on these platforms to interoperate with FOS v8.2.3b, refer to the *Dell EMC Support Matrix* at:

<https://elabnavigator.emc.com/eln/modernHomeSSM>, and then select the **Stand-Alone Switch** link under **Connectivity**.

Support clarification

Dell EMC may not support all of the functionality of FOS v8.2.3b or the operating environment. References to specific configurations, functionality, and capabilities of FOS v8.2.3b should not be interpreted to imply that Dell EMC endorses or will support them. The only configurations, features, and functionality that Dell EMC will support are documented in the *Dell EMC Support Matrix* (ESM) and the *Dell EMC Networked Storage Topology Guide*.

At the time of publication, the following configurations, functionality, and capabilities of FOS OS v8.2.3b are not supported by Dell EMC:

- ‡ IPv6 with FC-IP
- ‡ FCoE support on the PB-DCX6-64P32G blade

Fixed Problems

This section contains fixed problems for the following versions of Fabric OS:

* [“Closed in v8.2.3b” on page 6](#)

When a workaround to an issue is available, it is provided. Otherwise, no recommended workaround is available at this time.

Closed in v8.2.3b

This section lists software defects with Critical, High and Medium Technical Severity closed with code change as of December 14, 2021 in Version 8.2.3b.

Closed with Code Changes in 8.2.3b

Defect ID:	FOS-649549		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.0	Technology:	User Accounts & Passwords
Symptom:	Enable/disable root account using an AD account fails with error message: Cannot manage the target account due to conflicting AD permissions.		
Condition:	When using AD accounts to make changes.		
Workaround:	Perform the task via the default “admin” account		

Defect ID:	FOS-651997		
Technical Severity:	High	Probability:	High
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.0.2c	Technology:	FCIP - Fibre Channel over IP
Symptom:	One or more XTUN-1008 RASLOGs followed by tunnel down notifications at the peer switch.		
Condition:	Server with NPIV connections to fabric is frequently logging in and out of the fabric and issuing PLOGIs/PRLIs to devices over an FCIP Tunnel. Each PLOGI/PRLI has a new SID as the NPIV PID normally changes at each fabric login.		

Defect ID:	FOS-658218		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS7.4.1e1	Technology:	RAS - Reliability, Availability, and Serviceability
Symptom:	Switch shows the wrong ip addresses in the login information log		
Condition:	SEC-1203 messages may show wrong IP during user login. No other functional impact.		

Defect ID:	FOS-800722		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.2	Technology:	Access Gateway
Symptom:	F-ports can end up in G-port or other inconsistent state.		
Condition:	After reboot or switchenable, F-ports and N-ports come online at the same time.		
Workaround:	Manually persistently disable all F-ports before reboot or switchenable. After reboot or switchenable, manually persistently enable the F-ports.		

Defect ID:	FOS-821089		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS9.0.1	Technology:	ISL - Inter-Switch Linking
Symptom:	Switch ports experience immediate hard fault or busy buffer stuck status which leads to a hard fault and possible switch fault of all ports.		
Condition:	Frequent plug/unplug of user port cables or a bad link causes physical errors that lead to port hard faults and/or credit loss.		
Workaround:	Do not plug/unplug links too frequently.		
Recovery:	Clean the link errors and bounce the ports with portdisable/portenable.		

Defect ID:	FOS-825815		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS9.0.1	Technology:	FCIP
Symptom:	Kernel panic in DP during fcippathtest		
Condition:	This is a very rare occurrence that happens during diagnostic image bootup in DP upon execution of fcippathtest		

Defect ID:	FOS-827821		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS8.2.2a	Technology:	Optics
Symptom:	Device has login issue with certain optics types.		
Condition:	Enhance code to be more tolerant to RX LOS signals from optics.		

Defect ID:	FOS-830052		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS8.2.1c	Technology:	CLI
Symptom:	Port initialization interop issues with a certain SFP, when connecting to a specific 3rd party device. This may result in some ports showing errors and some going into no_sync, port_Flt state.		
Condition:	This is seen with specific vendor SFP and is resolved via a new CLI "sfpprogram" enhancement to adjust port optics setting for interop. The new CLI syntax is as follows: sfpprogram port port-range		

Defect ID:	FOS-830310		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS9.0.0b	Technology:	CLI
Symptom:	Firmwaredownload fails with a generic error-message: "Firmwaredownload sanity check failed. Please contact the service provider if the issue persists."		
Condition:	This is seen in an environment with DNS configured, after the backend IP address between CPs on director are removed during firmwaredownload; Consequently ipaddress cannot be resolved and firmwaredownload timed out.		
Workaround:	'firmwaredownload -s' on both CPs.		

Defect ID:	FOS-831592		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3	Technology:	SNMP - Simple Network Management Protocol
Symptom:	3rd party applications cannot collect performance information.		
Condition:	This is seen as a result of switch Boot time not being consistent with queries from SNMP on FOS8.2.3 and later and 9.0.1 and later. Applications relying on boot time to do calculations may get unexpected results.		

Defect ID:	FOS-831688		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.2d	Technology:	FCIP - Fibre Channel over IP
Symptom:	Various operations fail after the switch runs out of disk space.		
Condition:	This only happens with extension platforms. Netstat process on DP coredumps, filling DP's flash and in turn filling CP's flash during SupportSave operation.		
Workaround:	Remove the large number of core.netstat* files from /var/log/dpSlot0		

Defect ID:	FOS-831875		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3	Technology:	SNMP - Simple Network Management Protocol
Symptom:	SNMP application may lose connection to switch momentarily during snmp walk of IPV6 address table and occasionally the user may observe CP lost HA SYNC if the walk is performed during hafailover/hareboot.		
Condition:	This may occur when 3rd party applications or scripts perform mib walk on IPv6 address present in IP Address table (ipAddressTable) with partial indexes, such as "snmpwalk -v 3 -u snmpadmin1 10.155.22.131 1.3.6.1.2.1.4.34.1.2".		
Workaround:	Perform complete mib walk instead of querying for IPV6 entries alone.		
Recovery:	Normally snmpd will restart itself and connection will be restored shortly thereafter. However, if HA goes out of sync due to back to back snmpd restart failure during HA, a reboot is needed to recover.		

Defect ID:	FOS-832112		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.2d	Technology:	FCIP
Symptom:	Switch panic after receiving invalid length frame.		
Condition:	This happens on extension platforms when the LACP/LLDP controlframe has a length greater than 2112.		

Defect ID:	FOS-832434		
Technical Severity:	High	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3a1	Technology:	CLI
Symptom:	After upgrading Brocade 6548 to FOS 8.2.3a, the user is unable to login to the switch, with the following error: login: admin "Inconsistency de" - Note: traffic may be impacted too.		
Condition:	This impacts the Brocade 6548 switch only.		
Workaround:	Do not upgrade to FOS 8.2.3a on Brocade6548.		
Recovery:	No field recovery available but RMA switch.		

Defect ID:	FOS-832960		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.2d	Technology:	Trunking
Symptom:	Disruption on Access Gateways when F-port trunks change trunkmaster.		
Condition:	With a F-port trunking group and 1 F -port with 127 NPIV logins, the trunking master port was disabled, and the new master port got disabled too.		
Recovery:	Reboot fabric switch connected to AG.		

Defect ID:	FOS-833133		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS8.2.3a1	Technology:	CLI
Symptom:	When doing firmwarecleaninstall, the following will be displayed on the console: INSTALL26: ERROR - Cannot get file - /sbin/create_release_file. Please verify the network is good and retry firmwarecleaninstall after reboot INSTALL26: install FAILED with 0 warnings. FirmwareCleaninstall failed, you can reboot to retry.		
Condition:	firmwarecleaninstall on Gen5 platform		

Defect ID:	FOS-833550		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.2c	Technology:	FCIP - Fibre Channel over IP
Symptom:	CP may encounter kernel panic when the FCIP DP generates a large number of XTUN-1006 events per second.		
Condition:	During FC Egress timeouts from the FCIP DP on an FX8-24 blade, the current implementation does not limit the number of XTUN-1006 RASLOGs that can be generated per second. When a severe event occurs where many FCIP FC Tx Timeouts occur, the FCIP DP will generate enough XTUIN-1006 RASLOGs to consume all CP memory resulting in the kernel panic.		
Workaround:	Fix the device that is causing the FCIP TX timeouts.		

Defect ID:	FOS-833935		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.3a	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	Encountered Weblinker posting raslog RAS-1004 with VERIFY after run out of file descriptor.		
Condition:	This issue is seen on switches running FOS8.2.3a with LDAP configuration during LDAP login from the management application.		

Defect ID:	FOS-833940		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.2d4	Technology:	SNMP - Simple Network Management Protocol
Symptom:	SNMP panic resulted in director out of HA sync		
Condition:	After using a 3rd party monitoring tool which sends a SNMPGET request with an invalid Fibre Channel port index. This could happen with FOS8.2.3 or later, FOS9.0.1 or later, FOS7.4.2h or later and the following CCEs: v8.2.2d4, v8.2.2c6, v8.2.1e1, v8.2.1c5.		

Defect ID:	FOS-834163		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.2d4	Technology:	FCIP
Symptom:	Extension tunnel on 7810, 7840 or SX6 blade will not come online in a NAT (Network Address Translation) enabled WAN environment.		
Condition:	When an extension circuit is configured to run over a WAN path that utilizes NAT, the circuit will not establish.		

Defect ID:	FOS-834621		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS9.1.0	Technology:	FCIP
Symptom:	eHCL sequence encounters fatal FICON FD error, which results in VE recovery.		
Condition:	This occurs when performing eHCL sequence over FCIP extended paths with FICON Emulation enabled on the tunnel(s) when there is active FICON IO.		

Defect ID:	FOS-834628		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.2c6	Technology:	Extended Fabrics
Symptom:	User cannot create a tunnel after removing it.		
Condition:	If LAN connections being extended to site A are in the process of getting established, and at the same time VE to another site B goes down, there is a small timing window in the LAN connection state machine handling, which can bring the LAN connection to a stuck state and it may never get cleaned up. In such cases, deletion of VE (under which LAN connections are not cleaned up) will not complete until the switch is rebooted.		

Defect ID:	FOS-834868		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3a	Technology:	Firmware upload/download
Symptom:	firmwareactivation CLI fails with SULB-1043, after staging a firmware upgrade/downgrade: 2021/09/22-14:58:50:367354, [SULB-1043], 76469/35239, SLOT 1 CHASSIS, INFO, , Firmwareactivate command failed.		
Condition:	This results from a race condition that may be seen intermittently on an X6 chassis, if/when the firmwareactivate CLI context process falls behind the HA context process. The fix is only effective for future upgrades. This issue can still occur when upgrading "from FOS versions" that do not have this fix i.e. regardless of fix being in the target FOS version.		
Recovery:			

Defect ID:	FOS-834912		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS9.1.0	Technology:	Fibre Channel Services
Symptom:	SANnav reports error: "Registration for telemetry profile 'xxx' has failed and Switch panic after cold termination.		
Condition:	When schema server connection is unstable.		

Defect ID:	FOS-834918		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Monitoring/RAS
Reported In Release:	FOS8.2.2d1	Technology:	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	sfpshow CLI displays all zeros for txp, rxp etc smart data, and it triggers MAPs alert event.		
Condition:	It's mostly seen after a device offline/online.		
Recovery:	sfpshow <port> -f		

Defect ID:	FOS-835154		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.2d	Technology:	Name Server / Zoning
Symptom:	Dual CP reboot following some zoning changes performed via HTTP.		
Condition:	Panic occurs when multiple switches are performing configuration changes by webtools at the same time. This issue is more likely when one of the configuration changes fails.		

Defect ID:	FOS-835352		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.2d3	Technology:	FCIP
Symptom:	Customer experienced temporary traffic outage due to tunnel bounce.		
Condition:	The outage happened due to DP reset recovery for a Datapath FPGA error. Enhanced code to gather more debug info for this situation.		

Defect ID:	FOS-835508		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.3a	Technology:	ISL - Inter-Switch Linking
Symptom:	Switch panics while processing stale LISL entries.		
Condition:	This is caused as a result of stale LISL ports carried over from FOS v7.4.x / FOS v8.0.x release		

Defect ID:	FOS-835586		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3a	Technology:	SNMPv2, SNMPv3 & MIBs
Symptom:	SNMP consumes more CPU cycles, resulting in MAPS alerts.		
Condition:	This issue occurs on platform where there are no GigE ports.		

Defect ID:	FOS-835791		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3a	Technology:	Platform Services
Symptom:	Individual ports, that were previously disabled, are enabled while running CLI command switchcfgpersistentenable		
Condition:	This is seen with CLI command switchcfgpersistentenable when the switch persistent state is already enabled and the switch is already online.		
Recovery:	Re-disable the enabled ports.		

Defect ID:	FOS-836031		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3a	Technology:	Fibre Channel Services
Symptom:	Switch panic after FDMI daemon terminated.		
Condition:	FDMI terminated after memory overrun during GPAT processing. This release addressed some port attribute length issues and also added enhancements to address and fix corruption around port attribute queries.		

Defect ID:	FOS-836043		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.2b	Technology:	CLI
Symptom:	DCX8510 returning chassis S/N when being queried for brocade-chassis info via REST, when WWN 1 S/N was previously returned and used for entitlement.		
Condition:	When REST URL brocade-chassis/chassis URL is being used.		
Workaround:	Use CLI chassisshow to get WWN 1 serial number, or upgrade to a FOS version with fix and use the new leaf "entitlement-serial-number" via REST.		

Defect ID:	FOS-836219		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS8.2.1c	Technology:	Optics
Symptom:	CLI "sfpshow -all" did not display complete output and the polling of smart SFP data stopped. It reported an very old "Last poll time:"		
Condition:	When SFP is plugged into a disabled port or SFP on disabled port is reseated.		
Workaround:	Run sfpshow -f to reactive smart data polling.		

Defect ID:	FOS-836265		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3a	Technology:	Fibre Channel Services
Symptom:	During code upgrade from FOS v8.2.1x to FOS v8.2.3x, FOS cannot completely be brought up due to cold core dumps. User observes the switch hanging.		
Condition:	Issue is seen when ESRS is configured and call home alert is triggered before cold is initialized completely.		
Workaround:	Issue won't be seen without ESRS configuration. Users can bring up the switch by removing these "cal.esrs" entries from the configuration file.		

Environment and system requirements

This section lists information you should consider before you use this firmware version.

Optionally licensed software

Fabric OS v8.2.3b includes all basic switch and fabric support software, as well as optionally licensed software that is enabled via license keys.

Optionally licensed features supported in FOS v8.2.3b include:

- † **Ports on Demand**—Allows customers to instantly scale the fabric by provisioning additional ports via license key upgrade. (Applies to select models of switches).
- † **Q-Flex Ports on Demand** - Allows customers to further scale the fabric and increase flexibility by provisioning additional 4x32G QSFP ports via license key upgrade. Applies to Connectrix DS-6620B only.
- † **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).
- † **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.
- † **Fabric Vision** —Enables support for MAPS (Monitoring and Alerting Policy Suite), Flow Vision, and ClearLink (D_Port) when connecting to non-Brocade devices. MAPS enables rules-based monitoring and alerting capabilities, provides comprehensive dashboards to quickly troubleshoot problems in Brocade SAN environments. Flow Vision enables host to LUN flow monitoring, application flow mirroring for non-disruptive capture and deeper analysis, and test traffic flow generation function for SAN infrastructure validation. D_Port to non-Brocade devices support allows extensive diagnostic testing of links to devices other than Brocade switches and adapters.

Note: On the Connectrix DS-6620B, DS-6630B, ED-DCX6-8, and ED-DCX6-4 platforms, this license enables the use of IO Insight capability. The license itself will be identified as "Fabric Vision and IO Insight" license on these platforms.

- † **FICON Management Server** — Also known as "CUP" (Control Unit Port), this enables host control of switches in mainframe environments.
- † **Integrated Routing** —This license allows any Fibre Channel port in a ED-DCX-8510-8B, ED-DCX-8510-4B, Connectrix DS-6510B, DS-6520B, MP-7840B, or DS-6620B to be configured as an EX_Port supporting Fibre Channel Routing. This eliminates the need to add an FR4-18i blade for FCR purposes, and also provides either quadruple or octuple the bandwidth for each FCR connection (when connected to another 16Gbs or 32Gbs-capable port).
- † **Integrated Routing Ports on Demand** – This license allows any Fibre Channel port in a ED-DCX6-8B or ED-DCX6-4B to be configured as an EX_Port supporting Fibre Channel Routing. The maximum number of EX_Ports supported per platform

is provided in the license. This eliminates the need to add an FR4-18i blade for FCR purposes, and also provides octuple the bandwidth for each FCR connection (when connected to another 32Gbs-capable port).

- † **Advanced Extension** - This license enables two advanced extension features: FCIP Trunking and Adaptive Rate Limiting. The FCIP Trunking feature allows multiple IP source and destination address pairs (defined as FCIP Circuits) via multiple 1 GbE or 10 GbE interfaces to provide a high bandwidth FCIP tunnel and failover resiliency. In addition, each FCIP circuit supports four QoS classes (Class-F, High, Medium and Low Priority), each as a TCP connection. The Adaptive Rate Limiting feature provides a minimum bandwidth guarantee for each tunnel with full utilization of the available network bandwidth without impacting throughput performance under high traffic load. This license is available on the ED-DCX-8510-8B/ED-DCX-8510-4B 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 ED-DCX-8510 platforms except for the FC16-64 blade. On the DS-6510B, DS-6520B this license enables 10G FC ports. This license is not applicable to the Connectrix MP-7840B, Connectrix DS-6620, or ED-DCX6 platforms.
 - **On FX8-24:**

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

 - 10x1GbE ports and 1x10GbE port, or
 - 2x10GbE ports
 - **On FC16-xx:**

Enables 10G FC capability on an FC16-xx blade in a slot that has this license.
 - **On DS-6510B, DS-6520B:**

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

This license is available on the ED-DCX-8510-8B and ED-DCX-8510-4B 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 acknowledgment sequences. This license is available on the MP-7840 and the ED-DCX-8510-8B and ED-DCX-8510-4B for the FX8-24 on an individual slot basis.
- † **ICL POD License**—This license activates ICL ports on ED-DCX-8510 or ED-DCX6 platform core blades. An ICL license must be installed on the Director platforms at both ends of the ICL connection.
 - **On ED-DCX-8510-8B and ED-DCX6-8:** The 1st ICL POD license enables 16 (half of the total) UltraScale ICL QSFP ports on ED-DCX-8510-8B or ED-DCX6-8 Directors, enabling eight ICL ports on each core blade. These are QSFP port number 0, 1, 2, 3, 4, 5, 6, and 7 on ED-DCX-8510-8B; while on ED-DCX6-8, the QSFP port numbers are 0, 1, 2, 3, 8, 9, 10, and 11. The 2nd ICL

POD license enables the remaining 16 UltraScale ICL QSFP ports on the Directors. These are QSFP port number 8, 9, 10, 11, 12, 13, 14, and 15 on each core blade of ED-DCX-8510-8B; while on ED-DCX6-8, these are QSFP port number 4, 5, 6, 7, 12, 13, 14, and 15 on each core blade.

Note that the trunk boundaries are different between CR32-8 core blades on ED-DCX6-8 and CR16-8 core blades on ED-DCX-8510-8B.

- **On Connectrix ED-DCX-8510-4B and ED-DCX6-4B:** ICL POD licenses are different between ED-DCX6-4B and ED-DCX-8510-4B Directors. On an ED-DCX6-4B, the 1st ICL POD license enables eight (half of the total) UltraScale ICL QSFP ports on the Director, enabling four ICL ports on each core blade, which are QSFP port number 0, 1, 4, and 5. The 2nd ICL POD license on ED-DCX6-4B enables the remaining eight UltraScale ICL QSFP ports on the Director, which are QSFP port number 2, 3, 6, and 7 on each core blade. On a ED-DCX-8510-4B, a single ICL POD license enables all 16 UltraScale ICL QSFP ports on the Director. On Connectrix ED-DCX-8510-4B and ED-DCX6-4B: ICL POD licenses are different between ED-DCX6-4B and ED-DCX-8510-4B Directors. On an ED-DCX6-4B, the 1st ICL POD license enables eight (half of the total) UltraScale ICL QSFP ports on the Director, enabling four ICL ports on each core blade, which are QSFP port number 0, 1, 4, and 5. The 2nd ICL POD license on ED-DCX6-4B enables the remaining eight UltraScale ICL QSFP ports on the Director, which are QSFP port number 2, 3, 6, and 7 on each core blade. On a ED-DCX-8510-4B, a single ICL POD license enables all 16 UltraScale ICL QSFP ports on the Director.

- † **Enterprise ICL (EICL) License** —The EICL license is required on a ED-DCX-8510 chassis when that chassis is connected to four or more ED-DCX-8510 chassis via ICLs. This license is not applicable to ED-DCX6 Directors.

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

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

- † **WAN Rate Upgrade 1 License**—The WAN Rate Upgrade 1 license provides the additional WAN throughput up to 10 Gbps on a MP-7840B. The base configuration for a MP-7840B without this license provides WAN throughput up to 5 Gbps.
- † **WAN Rate Upgrade 2 License** - The WAN Rate Upgrade 2 license provides unlimited WAN throughput (up to the hardware limit) on a MP-7840B. WAN Rate Upgrade 2 licenses also enable the use of two 40GbE ports on a MP-7840B. The 40GbE ports cannot be configured without the WAN Rate Upgrade 2 license. A WAN Rate Upgrade 1 license must be installed on a MP-7840B before a WAN Rate Upgrade 2 license is installed. A WAN Rate Upgrade 1 license cannot be removed before the WAN Rate Upgrade 2 license has been removed.

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

- * **Extension Upgrade License** – The Extension Upgrade license is available on the Brocade 7810, enabling additional ports, capacity, and features that provide the following: 12 32Gb/s FC ports, 6 10Gb/s Ethernet ports, 4 tunnels, 6 circuits per tunnel, 2.5Gb/s WAN throughput, Fabric Vision, Extension Trunking, Brocade ISL Trunking, Integrated Routing Ports on Demand, and Brocade Extended Fabrics. This license is shown as a combination of existing FOS licenses that enable the above capabilities and features.

Note: FOS v8.2.2b and later supports 6 10Gb/s Ethernet ports in base configuration of Brocade MP-7810. 10 Gb/s Ethernet ports can be enabled without the Extension Upgrade license.

Licensed software as standard

The following licensed software is available with the hardware and no additional purchase is necessary:

- * Web Tools-Administration, configuration, and maintenance of fabric switches and SANs
- * Advanced Zoning-Division of a fabric into virtual private SANs

Important notes

This section contains information that you should consider before you use Fabric OS v8.2.3b.

CMCNE compatibility

CMCNE 14.4.5 is required to manage switches running FOS v8.2.3b.

CMDCE compatibility

CMDCE 10.x is not qualified or supported for management of 8G or 16G hardware platforms operating with FOS v8.1x and later firmware versions. You must first upgrade CMDCE to CMCNE 14.4.5 if you are planning to upgrade devices to v8.2.2 or later.

Web Tools compatibility

FOS v8.2.3b is qualified and supported with Oracle Java version 8 update 202.

CloudIQ

FOS 8.2.1a is the minimum version of FOS required to support CloudIQ.

SANnav Management Portal Compatibility

The SANnav Management Portal 2.0.x supports managing SAN switches running Fabric OS up to v8.2.2x. Compatibility with FOS versions can be found in the SANnav Management Portal 2.0.x Release Notes. FOS v8.2.2a and later require FOS EULA acceptance during firmware migration. The SANnav Management Portal 2.0.x does not support firmware migration from FOS v8.2.2a and later to any FOS version. Use the SANnav 2.1 Management Portal 2.1.x for firmware migration. Alternatively, use WebTools or the CLI in FOS v8.2.2a or later for firmware migration.

SMI Compatability

It is important to note that host SMI-S agents cannot be used to manage switches running Fabric OS 8.2.3b. If you want to manage a switch running Fabric OS 8.2.3b using the SMI-S interface, you must use the CMCNE integrated SMI agent.

SNMP Support

Fabric OS 8.2.3b documents the supported MIBs in the Brocade Fabric OS MIB Reference Manual. For information about SNMP support in Fabric OS software and how to use MIBs, refer to the Brocade Fabric OS Administration Guide for Fabric OS 8.2.2.

Blade Support

Fabric OS v8.2.3b software is fully qualified and supports the blades for the ED-DCX-8510-8B noted in [Table 1](#).

Table 1 Blade support matrix for ED-DCX-8510-8B and ED-DCX-8510-4B with FOS v8.2.3b

ED-DCX-8510-8B/ED-DCX-8510-4B Blade Support Matrix	
FC16-32, FC16-48 16G FC blades	FOS v7.0 or later
FC16-64 blade	FOS v7.3 or later.
FC8-64 64 port 8Gbit port blade	Not supported
FC8-32E, FC8-48E	Not supported
FCIP/FC Router blade (FR4-18i)	Not supported on FOS v8.1.0c or later
Virtualization/Application Blade (FA4-18)	Not supported on FOS v8.1.0c or later
Encryption Blade (FS8-18)	Not supported
Extension Blade (FX8-24)	FOS v7.0 or later. Up to a maximum of 4 blades of this type.
FCoE/L2 CEE blade FCOE10-24	Not supported

Table 2 Blade Support Matrix for ED-DCX6-8B and ED-DCX6-4B with FOS v8.2.3b

Fabric OS v8.2.3b software is fully qualified and supports the blades for the ED-DCX6-8B and ED-DCX6-4B noted in Table 2 .	
ED-DCX6-8B/ED-DCX6-4B Blade Support Matrix	
FC32-48 32G FC blade	FOS v8.0.1a or later
SX6 Gen 6 Distance Extension Blade	FOS v8.0.1a or later. Up to maximum of 4 blades of this type.
FC32-64 32G FC/FCoE blade	FOS 8.2.0 or later A maximum of 2 blades of this type is supported when four SX6 blades are present in the same DCX6-8B chassis

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

Note: The QSFPs supported in FC16-64 is also supported on ED-DCX6 core blades with the condition that the port speed must be configured at fixed 16 Gbps. Otherwise, the optics will be faulted.

Table 3 Power Supply Requirements for ED-DCX6-8B

EMC does not support ED-DCX6-8B directors connected to a 110 VAC power source.			
Power Supply Requirements for Blades in ED-DCX6-8B			
Blades	Type of Blade	ED-DCX6-8B @200-240 VAC (Redundant configurations)	Comments
FC32-48	Port Blade	2 Power Supplies	Distribute the Power Supplies evenly to 2 different AC connections for redundancy.
FC32-48	Port Blade	3 or 4 Power Supplies (2+1 or 2+2 redundancy)	
FC32-48 FC32-64 PB-DCX6-SX6	Port Blade Extension Blade	3 or 4 Power Supplies (2+1 or 2+2 redundancy)	

Table 4 Power supply requirement for ED-DCX6-4B

EMC does not support ED-DCX6-4B directors connected to a 110 VAC power source.			
Power Supply Requirement for Blades in ED-DCX6-4B			
Blades	Type of Blade	ED-DCX6-4B @200-240 VAC (Redundant configurations)	Configured Number of Ports
FC32-48 FC32-64 PB-DCX6-SX6	Port Blade Extension Blade	2 Power Supplies (1+1 redundancy)	Any combination of 32 Gbps ports and Extension blades with QSFP ICLs

Table 5 Power Supply Requirements for ED-DCX8510-8B (page 1 of 2)

EMC does not support the ED-DCX8510-8B director connected to a 110 VAC power source.				
Typical Power Supply Requirements Guidelines for Blades in ED-DCX8510-8B (For specific calculation of power with different blade combinations, please refer to <i>Appendix A: Power Specifications in the Brocade DCX 8510-B Backbone Hardware Reference Manual</i>)				
Configured Number of Ports	Blades	Type of Blade	ED-DCX 8510-8B @200-240 VAC (Redundant configurations)	Comments
Any combination of 8Gb or 16Gb ports with QSFP ICLs	FC16-32, FC16-64	Port Blade	2 Power Supplies	200-240VAC: 1+1 Power Supplies
256 16Gb ports + QSFP ICLs	FC16-32, FC16-48 (Maximum of fully populated FC16-32 blades) FC16-64, FC16-64	Port Blade	2 Power Supplies	200-240VAC: 1+1 Power Supplies Max 8 FC16-32 port blades
192 16Gb Ports & max 2 intelligent blades (FX8-24 /FS8-18/combinat ion) with QSFP ICLs	FC16-32, FC16-48, FX8-24,FC16-64	Port / Intelligent Blade	2 Power Supplies	200-240VAC: 1+1 Power Supplies Max four FC16-48 port blades and max 2 Intelligent blades
512 16Gb ports + QSFP ICLs	FC16-64	Port Blade	2 Power Supplies	200-240VAC: 1+1 Power Supplies
336 16Gb ports + QSFP ICLs	FC16-48 (Maximum of seven FC16-48 blades, with one empty port blade slot)	Port Blade	2 Power Supplies	200-240VAC: 1+1 Power Supplies Max 7 FC16-48 port blades

Table 5 Power Supply Requirements for ED-DCX8510-8B (page 2 of 2)

EMC does not support the ED-DCX8510-8B director connected to a 110 VAC power source.				
Typical Power Supply Requirements Guidelines for Blades in ED-DCX8510-8B (For specific calculation of power with different blade combinations, please refer to <i>Appendix A: Power Specifications in the Brocade DCX 8510-B Backbone Hardware Reference Manual</i>)				
Configured Number of Ports	Blades	Type of Blade	ED-DCX 8510-8B @200-240 VAC (Redundant configurations)	Comments
512 16Gb ports	FC16-64	Port Blade	2 Power Supplies	200-240VAC: 1+1 Power Supplies
384 16Gb ports + QSFP ICLs	FC16-48	Port Blade	4 Power Supplies	200-240VAC: For ED-DCX 8510-8B, four (2+2) 220V AC Power Supplies are required
384 8Gb ports + QSFP ICLs	FC16-64	Port Blade	2 Power Supplies	200-240VAC: For ED-DCX 8510-8B, four (2+2) 220V AC Power Supplies are required
Any combination of 8Gb or 16Gb ports and intelligent blades with QSFP ICLs	FC16-32, FC16-48, FX8-24	Intelligent Blade /Combination	4 Power Supplies	For ED-DCX 8510-8B, four (2+2) 220V AC Power Supplies are required when any special purpose blade are installed

Table 6 Power Supply Requirements for ED-DCX8510-4B

EMC does not support the ED-DCX8510-4B director connected to a 110 VAC power source.				
Typical Power Supply Requirements Guidelines for Blades in ED-DCX8510-4B (For specific calculation of power draw with different blade combinations, please refer to <i>Appendix A: Power Specifications in the Brocade DCX 8510-4 Backbone Hardware Reference Manual</i>)				
Configured Number of Ports	Blades	Type of Blade	ED-DCX8510-4 B @200-240 VAC (Redundant configurations)	Comments
96 ports max with QSFP ICLs	FC16-32,	Port Blade	2 Power Supplies	1+1 redundancy with 200-240 VAC power supplies
Any combination of 8Gb or 16 Gb ports and intelligent blades with QSFP ICLs	FC16-32, FC16-48, FC16-64, FX8-24	Intelligent Blade /Combination	2 Power Supplies	200-240VAC: 1+1 Power Supplies

Scalability

Refer to the *Dell EMC Support Matrix* (ESM) for more information regarding the currently supported envelope. The *EMC Support Matrix* is available through E-Lab Interoperability Navigator at

<http://elabnavigator.EMC.com>, under the PDFs and Guides tab.

Important Notes

FCoE

The following topologies for FCoE on the FC32-64 are not supported with FOS v8.2.3b.

- * Cisco UCS server directly connected to the FC32-64 without a Fabric Interconnect module.
- * Cisco UCS server with a Fabric Interconnect module connected to the FC32-64 via a Nexus 5000 series switch in between. Neither running FCoE NPV mode nor L2 switching mode on the Nexus 5000 is supported.

FC-NVMe

- * FOS 8.1.0 or later is required to support FC-NVMe devices.
- * FOS 8.2.1 or earlier does not support FC-NVMe over FCR configurations. FOS 8.2.3b supports FC-NVMe in edge fabric to edge fabric over FCR configuration.

In-flight Encryption and Compression

- * FOS 8.2.3b supports in-flight encryption & compression on Connectrix DS-6510B, DS-6520B, ED-DCX 8510B, DS-6620B, DS-6630B, and FC32-48 port blade. In-flight encryption or compression on the Brocade DS-6620 and DS-6630 is supported with FOS 8.2.0a or later.
- * To enable in-flight encryption on DS-6620B, SFP port 44 - 47 must be disabled. If port 44 - 47 have been configured for in-flight compression with FOS v8.1.x or earlier, firmware upgrade to FOS v8.2.0 or later will be blocked until in-flight compression is moved to other ports in the switch.
- * FOS 8.2.2 or later is required to support trunking for encryption ports on the FC32-48 port blade.
- * Firmware upgrade to FOS v8.2.2 or later with encryption ports enabled on FC32-48 blade is nondisruptive.

VM Insight

- * VM Insight is supported on Connectrix DS-6610B, DS-6620B, DS-6630B, and ED-DCX6 running FOS v8.1.0 and later.

Connectrix B-Series Gen 5 Fibre Channel platforms supports frames with the optional FC Application Header for VM Insight to pass through. Connectrix MP-7840B and SX6 running FOS v8.1.0 supports the Application Header in FCP emulating tunnel. FCP emulating tunnel or FICON emulation are not supported in other extension platforms or earlier firmware. Non-emulating tunnel on extension platforms supports pass through of Application Header.

- † VM Insight is not supported across FCR but frames with Application Header may traverse through FCR.
- † FOS v8.2.0 supports VM performance metrics in flows on ingress F_Port only. Connectrix DS-6620B and DS-6610B supports FC metrics. Connectrix ED-DCX6 Directors supports both FC and SCSI IO metrics.
- † Legacy static flow does not monitor SCSI IOPS statistics for frames with Application Header.
- † Duplicate sub-flow entries are displayed after a switch HA failover or multiple restart of VM traffic without clearing status. The workaround is to use "flow --reset sys_mon_all_vms" command reset.
- † FOS v8.2.3b does not support VM Insight for FC-NVMe traffics.

ClearLink Diagnostics (D_Port)

- † Fabric OS 8.2.x supports D_Port tests between two Connectrix switches and between Connectrix B-Series switches and Gen 5 (16 Gbps) and Gen 6 (32 Gbps) Fibre Channel Adapters from QLogic and Emulex. Following are specific adapter models and driver versions tested by Brocade with Fabric OS v8.2.3b for ClearLink.¹

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

¹ Adapter firmware or driver versions that are later than the ones listed in the table may not work.

- † The D_Port long duration test can only be run on one port at a time.
- † Long-duration electrical loopback tests are not supported.
- † D_Port test on 4x32GFC breakout QSFP optics (p/n 57-1000351-01) and 128GFC non-breakout QSFP (part number 57-1000331-01) have the following restrictions:
 - D_Port for these modules in X6 ICL ports are supported without electric or optical loopback tests
 - D_Port on any user port connected by a QSFP requires all 4 user ports within the same QSFP to be in D_Port mode
 - D_Port test requires all user ports in a QSFP to be in the same logical switch
 - Dynamic or On-Demand D_Port is not supported on the user ports in these modules

- † If D_Port test between a Brocade switch and an Emulex adapter is stopped shortly after the test has started, the adapter firmware may display "No FC Cables connecting the port to switch". The workaround is to restart D_Port test to completion.

Forward Error Correction (FEC)

- † FEC is mandatory with Gen 6 Fibre Channel operating at 32 Gbps. This means that the **portcfgfec** command only applies to ports running at 16 Gbps or 10 Gbps.
- † FEC capability is not supported with all DWDM links. This means that FEC may need to be disabled on 16 Gbps or 10 Gbps ports when using DWDM links with some vendors. This is done using the **portcfgfec** command. Failure to disable FEC on these DWDM links may result in link failure during port bring up. For supported DWDM equipment, please refer to the Distance Solution table of the *Dell EMC Support Matrix*.
- † **Access Gateway**
The 32G links with 4x32G QSFP ports (port 48-port 63) do not have default mappings. These ports will be disabled by default when a Connectrix DS-6620B is enabled for Access Gateway mode or the configuration set to default.
- † Attempts to remove failover port mapping from N-Port number 0 on an Access Gateway fails. This problem does not exist on other N-Port numbers.

Ingress Rate Limiting

- † Fabric OS 8.1.0 does not support ingress rate limiting on Connectrix Gen 6 DS-6610B, DS-6620B, DS-6630B or ED-DCX6 platforms.

Ethernet Management Interface

- † The recommended interface speed configuration for a Brocade DS-6620B is 1G auto-negotiate. If a DS-6620B is configured for 10/100M Gb/s forced-speed and fails to establish a link, use a cross-over cable.
- † If a Brocade switch management interface is running at 10 Mb/s, certain FOS operations such as `firmwaredownload` may fail.
- † The 10Gb/s management interface on CPX6 blades is not supported.
- † The 10 Gbps management interface on CPX6 blades is not supported.
- † Half-duplex mode for the ED-DCX6 Director and MP-7840B is not supported and is blocked.
- † External default route to the private IPv4 Class B network of 172.16.0.0/16 is unreachable over the management interface due to the existence of a more specific route from an internal Virtual Fabric ID address of 172.16.0.61/16 for FID 128. The solution is to delete the external default route or change it to a more specific address. The Virtual Fabric address will no longer block management access to the IPv4 Class B address range of 172.16.0.0/16.

Extension

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

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

- * It is recommended that administrators do not configure the HA VE pair (VE16, VE26), (VE17, VE27), (VE18, VE28), etc. where each VE in the pair is in a different LS with different traffic policy (port based routing and exchange based routing). The workaround is to configure different HA VE pairs such as (VE16, VE27), (VE17, VE26), etc. when putting each VE pair in different LS with different traffic policy.
- * When Non-Terminate TCP (NT-TCP) is enabled on Traffic Control Lists (TCLs) and a firmware downgrade to FOS v7.4.1d is attempted on Connectrix MP-7840B, the downgrade will be blocked. Users must remove NT-TCP from the TCLs with NT-TCP enabled in order to downgrade the firmware. After firmware is downgraded to FOS v7.4.1d, users can re-enable the NT-TCP flag.
- * Non-disruptive firmware download for IP extension supports non-disruption to IP traffic for all terminate TCP connections. UDP and non-terminate TCP traffic may be disrupted during HCL.
 - When downgrading from FOS v8.1.0a to an earlier release during HCL, the following message may be seen. This message can be ignored and has no functional impact.


```
[ESM-1100], 343, SLOT 1 FID 128, WARNING, switch0,
esm_cfg_ip.c:2226 Could not get PMTU info from cfgdb
```
- * FOS v8.2.0 does not support dynamic LAG (LACP) on Gigabit Ethernet LAN ports.
- * If a MP-7840B or DCX6 director with SX6 blade in non-VF is assigned with a fabric ID other than 128, the backend ports on 7840 and SX6 during heavy traffic load may encounter credit loss, which can result in traffic disruption over the VE ports. This is tracked as Defect 660208.

Brocade Analytics Monitoring Platform

- † FOS v8.2.0 and later supports vTap on Connectrix Gen 5 and Gen 6 platforms to be monitored by the Brocade Analytics Monitoring Platform. The supported Connectrix B-Series platforms include: DS-6510B, DS-6505B, DS-6520B, ED-DCX-8510, DS-6630B, DS-6620B, DS-6610B, ED-DCX6.

- † vTap is not supported on QSFP ports (port 96 - 127) on Brocade DS-6630B with Virtual Fabric (VF) mode.

It is supported in non-VF mode only.

- If QSFP ports (port 96 - 127) on a Brocade G630 switch are part of the sys_analytics_vtap flow definition, the mirrored frames from these QSFP ports will be discarded for some duration after an HAreboot or after a sys_analytics_vtap flow de-activation.
- † Analytics Switch Link (ASL) connection is not supported on QSFP ports (port 96 - 127) on Connectrix DS-6630B. Enabling ASL on these ports will segment the link.
- † vTap and auto-discovered AF_Ports do not support high availability. In the event that an AF_Port is re-discovered by a fabric switch after a domain change on the attached Analytics Monitoring Platform and followed by an hafailover or hareboot of the fabric switch, the remote AF_Port information would be stale and vTap flows cannot be activated. In this case, use one of the following workarounds:
 - Manually configure the AF_Port after hafailover or hareboot
 - Disable and then enable the AF_Port on the Analytics Monitoring Platform
 - Deactivate vTap flow before firmware download, hafailover, or hareboot and activate vTap flow again.
- † vTap and CS_CTL are mutually exclusive on a fabric switch. If CS_CTL is enabled on one port, the entire switch cannot enable vTap. An F_Port trunk supporting CS_CTL must have all ports in the trunk group enabling CS_CTL. Similarly, in order to enable vTap, all ports in an F_Port trunk must have CS_CTL disabled. In addition, the master port of a trunk should remain the same between CS_CTL enable and disable. If this sequence is not followed, vTap may remain active even after CS_CTL is enabled on an F_Port, or the error message "Disable QoS zones error" may be observed when enabling vTap. A suggested method is to use the following sequence:
 - When enabling CS_CTL mode, enable on all slave ports, followed by enabling on the master port, noted as port M.
 - When disabling CS_CTL mode, disable all active ports in the trunk, except the master port M. Disable CS_CTL mode on port M. Enable all ports in the trunk followed by disabling CS_CTL mode on the remaining ports.
 - When CS_CTL is enabled on a port without any connection, after reboot and disabling CS_CTL, vTap cannot be enabled. The workaround is to enable the port as a SIM port after disabling CS_CTL, then toggle the port and remove the SIM port configuration.
- † vTap and in-flight encryption or compression compatibility is supported only on the following platforms: Connectrix ED-DCX-8510, ED-DCX6, DS-6620B, DS-6630B, and DS-6520B. On ED-DCX8510 and DS-6520B platforms, the chassis

configuration "vTap and Encryption/Compression Coexistence Mode" must be enabled when ports with vTap enabled and ports with in-flight encryption or compression enabled belong to the same ASICs. Please refer to the hardware installation guides of these platforms for port to ASIC mapping boundary.

- * When "vTap and Encryption/Compression Coexistence Mode" is enabled, the total IOPS on the same ASIC chip is limited to 250,000. If the IOPS exceeds the limit, the vTap flow will be deactivated.
- * When "vTap and Encryption/Compression Coexistence Mode" is enabled, the effective default zone access mode must not be "All Access".
- * Running **flow --show sys_analytics_vtap** command when vTap and QoS High compatibility mode is enabled but vTap flow is not active may display incorrect the message: "Enable vTap and QoS High Priority Zone Compatibility Mode to active vTap flow. Please use the **configurechassis** command to enable this compatibility mode." This is tracked as defect 604429
- * After a **configuredownload** followed by **switchenable**, or a flow statistics reset on Connectrix DCX6 and DS-6620B, MAPS may incorrectly reports VTAP IOPS > 250,000 violation.
- * AMPOS 2.2.0 or later is required to support FC32-64 blades. Users should upgrade Brocade Analytics Monitoring Platform to AMPOS 2.2.0 or later before adding PB-DCX6-64P32G blades to ED-DCX6.

Flow Vision

- * Flow Vision supports only logical group names that begin with alphabetic characters.
- * Frame count statistics of a Flow Monitoring flow may stop incrementing after a **statsclear** command. To work around the problem, users may run the **slotstatsclear** command. To recover from such condition, users should run the following steps:
 1. Disable all flows in the logical switch.
 2. Delete the problem flow.
 3. Create a new flow to replace the problem flow.
 4. Activate the new replacement flow.
 5. Verify the new replacement flow.
 6. Enable all other flows.
- * IO Insight metrics are supported on ingress and egress ports on Connectrix ED-DCX6 and on egress ports on Connectrix DS-6620B and DS-6630B switches. They are not supported on Connectrix DS-6610B switches.
- * Activating a Flow Monitoring flow on an egress port on Connectrix DS-6610B with **-frametype** parameter may encounter resource not available error.

- ‡ FC-NVMe flow IO Insight metrics are supported with Flow Monitoring flow on an a port defined on Connectrix DS-6630B and PB-DCX6-64P32G blade only. Users must use the **-nsid** parameter with the **flow --create** command to monitor FC-NVMe flows. Either a valid Name Space ID (NSID) need to used or the keyword "all" used to select all valid NSIDs.
- ‡ When a flow is created with the **-frametype** parameter, FC-NVMe traffics included in the metrics for the following SCSI frame types: SCSI, SCSTur, SCSTXferdy, and SCSTGoodStatus.
- ‡ Flow Mirroring is not supported on QSFP ports (port 96 - 127) on Connectrix DS-6630B with Virtual Fabric (VF) mode. It is supported in non-VF mode only.
- ‡ Mirror port is not supported on QSFP ports (port 96 - 127) on Connectrix DS-6630B. Enabling mirror port on these ports will disable the ports.
- ‡ If a flow is imported to MAPS and configured with incorrectly configured flow metrics thresholds, high frequency violation of the thresholds may result in very slow display of the RASLOG alerts for the violations.

FICON

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

MAPS

MAPS monitoring of UCS server login does not support the FENCE action even though the **mapsrule** command does not block the configuration.

Miscellaneous

- ‡ If the ambient temperature is above the recommended operational limit, the power supply units may shut down, in particular when the ambient temperature is above 62C degree for Connectrix ED-DCX6 Directors. This will result in the switch being shut down without any warning. Please refer to the *DS-6620B Hardware Installation Guide* and the *ED-DCX6-8/ED-DCX6-4 Hardware Installation Guides* for the recommended ambient temperature limits for the switches.
- ‡ After a Power Supply unit is removed from a Connectrix DS-6620B, the **historyshow** command may miss the entries for this FRU removal or insertion event. In addition, the RASLog ERROR message EM- 1028 may be logged when the Power Supply is removed. This condition can be corrected by a power-cycle of the switch.
- ‡ After running offline diagnostics mode 1 on QSFP ports, a Connectrix DS-6620B must be rebooted before operational use.
- ‡ All links in an ICL QSFP connection on an ED-DCX6 Director must be configured to the same speed using the **portcfgspeed** command from one of the following supported list: 16 Gbps, 32 Gbps, or ASN.

- ‡ When zoning database size exceeds the maximum supported limit, 2MB for directors and 1MB for fixed port switches, firmware upgrade from FOS v8.0.x to FOS v8.1.0a or later may be blocked. Users should run **cfgSize** command to make sure the "Zone DB max size" is not exceeded.
- ‡ ASN is not supported with 4x32GFC breakout optics (p/n 57-1000351-01) for ICL of X6 connecting to a 4x16GFC in an ICL of DCX8510. The speed must be set to 16Gbps or 32 Gbps fixed.
- ‡ Connecting 4x32GFC breakout optics (p/n 57-1000351-01) to 32Gbps SFP peer ports on Gen 6 platforms, ports may auto negotiate to 16Gbps after **switchdisable** and **switchenable** on the Gen 6 platforms with 32Gbps SFP ports. The Gen 6 platforms with 32Gbps SFPs should be upgraded to FOS v8.2.0 and later or FOS v8.1.2b or later to avoid this issue. This issue is more likely to occur when the Gen 6 platforms with 32Gbps SFPs are X6 directors.
- ‡ Connectrix DS-6620B LEDs illuminate amber and green during power up.
- ‡ Running **portloopbacktest lb_mode 1** on Connectrix DS-6630B with FOS v8.2.0 is not supported and may result in corruption of the attached 32G SFP optics. The corrupted SFP optics must be replaced as a result. FOS v8.2.0a and later on DS-6630B is required to run this test.
- ‡ Running **portloopbacktest -lb_mode 1 -enetmode --slot # -uports #** to Ethernet ports on PB-DCX6-64P32G will always result in failure in FOS v8.2.0a (Defect 649124). Please avoid running this test on Ethernet ports until this issue is fixed.
- ‡ A Connectrix DCX6 director that has connections to Access Gateway (AG) should avoid upgrade to FOS v8.2.0. Otherwise, some FOS service modules on the standby CP may terminate unexpectedly. The DCX6 director should be upgraded to FOS v8.2.0a or later instead.

Standards compliance

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

<http://www.brocade.com/sanstandards>

Known problems and limitations

Replication solutions

The MP-7810B is currently NOT supported with XtremIO replication and RecoverPoint for Virtual Machines due to resource restrictions with the MP-7810B. Please refer to the WAN Optimization table in the Dell EMC Support Matrix for replication products tested and supported by E-Lab.

Isilon SyncIQ replication is supported with the MP-7810B when the worker's count is controlled to stay within the MP-7810B limits. For more details, please refer to the KB article:

https://emcservice--c.visualforce.com/apex/KB_BreakFix_clone?id=kA23a000000G C2x

Adding additional power supplies to an ED-DCX8510-8B

By default, the ED-DCX8510-8B director ships with two power supplies. If you are installing two new power supplies in a ED-DCX8510-8B chassis to bring the total of power supplies up to four, you should change the **switchstatuspolicy** settings for **PowerSupplies** to the following in order to enable the call home feature if one power supply goes down:

```
switch.status.policy.PowerSupplies.down = 1
switch.status.policy.PowerSupplies.marginal = 0
```

For more details on executing the **switchStatusPolicyShow** and **switchStatusPolicySet** commands, please refer to the *Brocade Fabric*

a. *OS Command Reference Manual*.

Note: Dell EMC does not support ED-DCX8510-8B/ED-DCX8510-4B directors connected to a 110 VAC power source.

All tape drives and libraries

For all B Series switches and blades that do not support L_ports, all tape drives must be configured to allow point-to-point (or F_Port) logins.

QuickLoop

QuickLoop is not supported on the Dell EMC Connectrix B series switches running 4.x or higher firmware in either its original hub emulation mode, or in Fabric Assist mode. This means that direct attachment of private hosts to Connectrix B series switches is not supported.

Encryption

The following are currently unsupported with the Connectrix ES-5832B encryption switch and the PB-DCX-16EB encryption blade:

- * McData edge switches that carry data
- * AG Mode for the ES-5832B is not supported
- * Encryption of the following protocols:
 - FICON
 - iSCSI

- FCIP
 - † Encryption with the following EMC products:
 - Invista
 - Mirrorview
 - † The following are restrictions and limitations for the ES-5832B encryption switch and the PB-DCX-16EB encryption blade:
 - EMC Symmetrix Storage Arrays
 - EMC Symmetrix DMX-3, DMX-4, VMAX
- Restrictions:
- User must decide if the SPC-2 bit needs to be enabled/disabled. Changing this bit after the LUNs are encrypted will result in a different serial number that could potentially cause data corruption or encrypted LUNs to be disabled.
 - SPC-2 and OS2007 bits cannot be both enabled. This will cause data corruption in a multipathing environment.
 - All Symmetrix directors that host the same LUNs in a multipathing environment must have the same director bit settings.
- † Thin provisioning is not supported in the Connectrix B-Series encryption environments.
- † VMware VAAI commands and VMware 5.x VMFS5. See the Encryption section on [page 37](#) for more information.

FCIP

IPv6 and VLAN tagging are currently not supported.

Using the **Switch Admin Port** tab in Web Tools and un-checking F-Port and E-Port. Please refer to the Dell EMC Connectrix B Series Fabric OS Web Tools Administrator's Guide for more information.

Port swapping

Swapped ports do not get saved as part of a config upload. In addition, when Fabric Watch detects errors on swapped ports, the wrong area number will be reported.

Tape pipelining

When connecting a tape device on the backend of a CDL over FCIP, the core and edge ports must be configured as VE_Ports to allow a merged fabric.

If you do not want the fabric to merge (VE_Port to VEX_Port), you must turn tape pipelining off.

Firmware upgrades and downgrades

The following switches can be upgraded to Fabric OS v8.2.3b:

- ‡ DS-6505B
- ‡ DS-6510B
- ‡ DS-6520B
- ‡ ED-DCX8510-4B
- ‡ ED-DCX8510-8B
- ‡ DS-6620B
- ‡ DS-6610B
- ‡ DS-6630B
- ‡ ED-DCX6-8B
- ‡ ED-DCX6-4B
- ‡ MP-7840B
- ‡ MP-7810B

Platform Specific Downloads

This release of FOS is available for entitled equipment download in **Platform Specific Download (PSD)** form. FOS PSD releases provide a smaller version of the FOS image that can only be loaded on a single hardware platform, consisting of a single switch model or group of switch models. These FOS PSD images enable much faster download and file transfer times since they are between 65-90% smaller in size than traditional full FOS images.

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

Using FOS PSDs

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

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

Loading FOS PSDs via FOS Command Line

Installing a FOS PSD image on a switch is performed in the same manner as using a traditional full FOS image. If a FOS PSD image is loaded on an incorrect switch model (for example, attempting to load a FOS PSD image for a Gen 6 entry level switch on a Gen 6 Director), the following error message displays:

```
Cannot download the requested firmware because the firmware
doesn't support this platform. Please enter another firmware.
```

Loading FOS PSDs via Brocade SANnav Management Portal

Brocade SANnav Management Portal version 2.1.1 or earlier does not support FOS PSD images. However, FOS PSD images are supported with SANnav 2.1.1.3 and later releases. SANnav 2.1.1.3 and later can both host and install FOS PSD images onto Brocade switches.

Image Filenames

Image Filename	Description
v8.2.3b.md5	Fabric OS v8.2.3b Checksum
v8.2.3b_all_mibs.tar.gz	Fabric OS v8.2.3b MIBs
v8.2.3b_EXT.tar.gz	Fabric OS v8.2.3b for Linux to install on MP-7840 and MP-7810 platforms
v8.2.3b_EXT.zip	Fabric OS v8.2.3b for Windows to install on MP-7840 and MP-7810 platforms
v8.2.3b_G5_ENTRY.tar.gz	Fabric OS v8.2.3b for Linux to install on DS-6505B platform
v8.2.3b_G5_ENTRY.zip	Fabric OS v8.2.3b for Windows to install on DS-6505B platform
v8.2.3b_G5_MID.tar.gz	Fabric OS v8.2.3b for Linux to install on DS-6510B platform
v8.2.3b_G5_MID.zip	Fabric OS v8.2.3b for Windows to install on DS-6510B platform
v8.2.3b_G5_ENTP.tar.gz	Fabric OS v8.2.3b for Linux to install on DS-6520B platform
v8.2.3b_G5_ENTP.zip	Fabric OS v8.2.3b for Windows to install on DS-6520B platform
v8.2.3b_G5G6_DIR.tar.gz	Fabric OS v8.2.3b for Linux to install on DCX-8510-8B, DCX-8510-4B, ED-DCX6-8B, and ED-DCX6-4B Platforms
v8.2.3b_G5G6_DIR.zip	Fabric OS v8.2.3b for Windows to install on DCX-8510-8B, DCX-8510-4B, DCX6-8B, and DCX6-4B Platforms
v8.2.3b_G6_ENTRY.tar.gz	Fabric OS v8.2.3b for Linux to install on DS-6610B platform
v8.2.3b_G6_ENTRY.zip	Fabric OS v8.2.3b for Windows to install on DS-6610B platform
v8.2.3b_G6_MID.tar.gz	Fabric OS v8.2.3b for Linux to install on DS-6620B platform
v8.2.3b_G6_MID.zip	Fabric OS v8.2.3b for Windows to install on DS-6620B platform
v8.2.3b_G6_ENTP.tar.gz	Fabric OS v8.2.3b for Linux to install on DS-6630B platform
v8.2.3b_G6_ENTP.zip	Fabric OS v8.2.3b for Windows to install on DS-6630B platform

Recommended migration paths to FOS v8.2.3b

Migrating from FOS v8.0.x

Any Connectrix B-Series platform running any FOS 8.0.x must be first upgraded to FOS 8.1.x to non-disruptively upgrade to FOS 8.2.3b.

Migrating from FOS v8.1.x

Any Connectrix B-Series platform running any FOS v8.1.0a or later can be non-disruptively upgraded to FOS v8.2.3b.

Migration from FOS 8.2.x

Any Brocade platform running FOS 8.2.0 or later can be non-disruptively upgraded to FOS 8.2.3b.

Note: Non-disruptive firmware upgrade from FOS v8.1.0 to FOS v8.2.3b on DS-6610B is not supported.

Note: Any firmware activation on a ED-DCX8510-8B or ED-DCX8510-4B with an FX8-24 blade installed will disrupt I/O traffic on the FCIP links.

Note: Firmware downgrades from FOS 8.2.3b to FOS 8.2.0x or earlier versions on the DS-6610B or DS-6505B are not allowed.

Note: On any Brocade SAN switch platform running FOS v8.2.2b or later, firmware upgrade or downgrade must acknowledge and accept EULA before firmware can installation.

Note: Firmware downgrade from FOS 9.0.0a and 9.0.0b to FOS 8.2.3b is not allowed. A workaround is to upgrade to FOS 9.0.1a first then to downgrade to FOS 8.2.3b. There is no such limitation on upgrade.

Note: :On a DS-6620B switch with the **switchShow** command displaying “**switchType**” field identified as 162.5, firmware downgrades from FOS 8.2.1a to earlier versions are not allowed.

Note: Firmware upgrade to FOS 8.2.2 or later will fail if the network interface is set to half-duplex. You need to change the network interface settings to full duplex using command "ethif --set" before you initiate the upgrade on the supported switches.

Note: If you loose network connection after changing the network interface to full duplex, check your uplink if it supports the full duplex mode.

Outstanding defects in v8.2.3b

The following defects are outstanding in Fabric OS v8.2.3b. However, they are unlikely to impede you in your deployment of Fabric OS v8.2.3b.

Newly Open Defects

This section lists defects opened against the Fabric OS v8.x code base between May 1, 2021 and May 31, 2021.

Previously Open

The defects listed in this section titled Previously Open provide a cumulative list of open defects relevant to the current baseline.

Newly Open Defects

This section lists defects opened against the Fabric OS v8.x code base, between November 1, 2021 and November 30, 2021.

Defect ID:	FOS-836265		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3a	Technology:	Fibre Channel Services
Symptom:	During code upgrade from FOS v8.2.1x to FOS v8.2.3x, FOS cannot completely be brought up due to cold core dumps. User observes the switch hanging.		
Condition:	Issue is seen when ESRS is configured and call home alert is triggered before cold is initialized completely.		
Workaround:	Issue won't be seen without ESRS configuration. Users can bring up the switch by removing these "cal.esrs" entries from the configuration file.		

Defect ID:	FOS-836219		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS8.2.1c	Technology:	Optics
Symptom:	CLI "sfps show -all" did not display complete output and the polling of smart SFP data stopped. It reported an very old "Last poll time:"		
Condition:	When SFP is plugged into a disabled port or SFP on disabled port is reseeded.		
Workaround:	Run sfps show -f to reactive smart data polling.		

Defect ID:	FOS-836043		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.2b	Technology:	CLI
Symptom:	DCX8510 returning chassis S/N when being queried for brocade-chassisinfo via REST, when WWN 1 S/N was previously returned and used for entitlement.		
Condition:	When REST URL brocade-chassis/chassis URL is being used.		
Workaround:	Use CLI chassisshow to get WWN 1 serial number, or upgrade to a FOS version with fix and use the new leaf "entitlement-serial-number" via REST.		

Defect ID:	FOS-836031		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3a	Technology:	Fibre Channel Services
Symptom:	Switch panic after FDMI daemon terminated.		
Condition:	FDMI terminated after memory overrun during GPAT processing. This release addressed some port attribute length issues and also added enhancements to address and fix corruption around port attribute queries.		

Previously Open Defects

This section lists defects previously reported as open against the Fabric OS v8.x code base in the open defect report.

Defect ID:	FOS-835791		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3a	Technology:	Platform Services
Symptom:	Individual ports, that were previously disabled, are enabled while running CLI command switchcfgpersistentenable		
Condition:	This is seen with CLI command switchcfgpersistentenable when the switch persistent state is already enabled and the switch is already online.		
Recovery:	Re-disable the enabled ports.		

Defect ID:	FOS-835154		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.2d	Technology:	Name Server / Zoning
Symptom:	Dual CP reboot following some zoning changes performed via HTTP.		
Condition:	Panic occurs when multiple switches are performing configuration changes by webtools at the same time. This issue is more likely whenone of the configuration changes fails.		

Defect ID:	FOS-834868		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	Firmware upload/download
Symptom:	firmwareactivation CLI fails with SULB-1043, after staging a firmware upgrade/downgrade: 2021/09/22-14:58:50:367354, [SULB-1043], 76469/35239, SLOT 1 CHASSIS, INFO, , Firmwareactivate command failed.		
Condition:	There is a timing condition that may be seen intermittently on an X6 chassis, if/when the firmwareactivate CLI context process falls behind of HA context process. The fix is only effective for future upgrades. If the upgrade "from release" is without this fix, the issue may still exist.		

Defect ID:	FOS-834163		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	None	Technology:	FCIP
Symptom:	Extension tunnel on 7810, 7840 or SX6 blade will not come online in a NAT (Network Address Translation) enabled WAN environment.		
Condition:	When an extension circuit is configured to run over a WAN path that utilizes NAT, the circuit will not establish.		

Defect ID:	FOS-833940		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	None	Technology:	SNMP - Simple Network Management Protocol
Symptom:	SNMP panic resulted in director out of HA sync		
Condition:	After using 3rd parity monitoring tool which sends a SNMPGET request with an invalid Fibre Channel port index. This could happen with FOS8.2.3 or later, FOS9.0.1 or later, FOSv7.4.2h or later and the following CCEs: v8.2.2d4, v8.2.2c6, v8.2.1e1, v8.2.1c5.		

Defect ID:	FOS-833935		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.3a	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	Encountered Weblinker posting raslog RAS-1004 with VERIFYs		
Condition:	This issue is seen on switches running FOS8.2.3a with LDAP configuration during LDAP login from management application.		

Defect ID:	FOS-833550		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.2c	Technology:	FCIP - Fibre Channel over IP
Symptom:	7800 CP may encounter kernel panic when the DP generates a large number of XTUN-1006 events per second.		
Condition:	During FC Egress timeouts from the FCIP DP, the current implementation does not limit the number of XTUN-1006 RASLOGs that can be generated per second. When a severe event occurs where many FCIP FC Tx Timeouts occur (an error case == something else is wrong), the FCIP DP will generate enough XTUIN-1006 RASLOGs to consume all CP memory resulting in the kernel panic.		
Workaround:	Fix the broken device that is causing the FCIP TX timeouts.		

Defect ID:	FOS-832476		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.2h	Technology:	SNMPv2, SNMPv3 & MIBs
Symptom:	Unable to block ports using snmptraps --block command in VF		
Condition:	This occurs when logical switches are created and then deleted in a random manner, leaving holes in the list of valid FID's.		
Recovery:	Please move port to default logical switch before blocking the SNMP traps for particular port using "snmptraps --block" command. And then move the port back to original logical switch after blocking the port is successful.		

Defect ID:	FOS-831881		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Monitoring/RAS
Reported In Release:	FOS7.4.2h	Technology:	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	snmpV2 MIBS does not show any output when VF ID is set in the context		
Condition:	The behavior is a result of the VF registration for the contexts not being implemented for snmpV2 tables.		

Defect ID:	FOS-830052		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS8.2.1c	Technology:	CLI
Symptom:	Port initialization interop issues with a certain SFP, when connecting to a specific 3rd device. This may result in some ports showing errors and some going into no_sync, port_Flt state.		
Condition:	This is seen with specific vendor SFP and resolved via a new CLI "sfpprogram" enhancement to adjust port optics setting for interop. The new CLI syntax is as follows:sfpprogram port port-range		

Defect ID:	FOS-829594		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	FICON
Reported In Release:	FOS9.0.1b	Technology:	FICON
Symptom:	Issuing a switchenable when the switch is already enabled may lead to I/O disruption		
Condition:	Running switchenable when the switch is already enabled and has LISLs.		
Workaround:	Check if the switch is enabled first before running switchenable.		
Recovery:	The bounced LISL comes back up on its own.		

Defect ID:	FOS-829441		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.2d	Technology:	WAN Performance Analysis Tools
Symptom:	"XTUN-1001 : memory allocation error" messages in RASLOG after using FCIP SLA or manual WTOOL functionality.		
Condition:	DRAM2 memory allocation failures after WTOOL DRAM2 leak gets too severe. Leak occurs during WTOOL session deletion.		
Workaround:	reboot.		
Recovery:	Upgrade to code with WTOOL DRAM2 leak fix.		

Defect ID:	FOS-828899		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	DP Panic after upgrading to FOS8.2.1 through FOS8.2.2d while running FICON XRC traffic over XRC Emulation enabled FCIP Tunnel.		
Condition:	When processing back to back Command Retry Status and Device Endstatus frames for an XRC Read Record Set chain.		

Defect ID:	FOS-828208		
Technical Severity:	Medium	Probability:	null
Product:	Fabric OS	Technology Group:	Other
Reported In Release:	FOS8.2.1a	Technology:	Other
Symptom:	Webtools hardware view does not show the Led status correctly for ports 50, 51 and 117 .		
Condition:	This issue is observed only for Brocade G630 switch and isolated to webtools only. CLI correctly shows the ports as online.		

Defect ID:	FOS-827719		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3	Technology:	SNMP - Simple Network Management Protocol
Symptom:	CORE and FFDC are generated on newly active CP after a dual CP firmwaredownload.		
Condition:	This is a very rare occurrence triggered by a hard to reproduce timing issue hit when EM module cannot present the blade list information to snmp daemon in a timely manner when the newly downloaded CP takesover the active CP role.		

Defect ID:	FOS-827718		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.3	Technology:	High Availability
Symptom:	Standby CP may remain at down level firmware version after a concurrent dual CP firmware upgrade failure		
Condition:	This may be seen as a consequence of a deamon termination on the active during warm recovery, leading to an ha sync failure and panic onthe standby CP.		

Defect ID:	FOS-827342		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS8.2.1c	Technology:	CLI
Symptom:	Switch reports class-3-discards value as 4294967295 after clearing port stats.		
Condition:	After run CLI portstatsclear.		

Defect ID:	FOS-826750		
Technical Severity:	Medium	Probability:	null
Product:	Fabric OS	Technology Group:	Other
Reported In Release:	FOS8.2.2c	Technology:	Other
Symptom:	SNMP incorrectly reporting uptime of 497 days due to deprecation of switchuptime CLI command		
Condition:	This is a rare occurrence and may be encountered upon: a) performing a firmwarecleaninstall, or b) When a new switch is first installed with FOS8.2.2x		

Defect ID:	FOS-826256		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.2c	Technology:	FCIP - Fibre Channel over IP
Symptom:	FX8-24 logging repeated circuit offline/online events until a hang.		
Condition:	After FX8-24 blade takes a panic with an invalid memory accessing		
Recovery:	Reboot of the FX8-24 blade on one or both sides		

Defect ID:	FOS-826163		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS9.0.0b	Technology:	Component
Symptom:	Fanshow/sensorshow shows "Below minimum" instead of "Faulty".		
Condition:	This is seen upon removal and reinsertion of PS with integrated FAN. Andalso during disruptive testing of the FAN by deliberate insertion of an object to stop the FAN.		

Defect ID:	FOS-825690		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2	Technology:	Platform Services
Symptom:	The chassis management module can't show the FOS version.		
Condition:	This only impact Brocade6546 platform.		

Defect ID:	FOS-825441		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	None	Technology:	Licensing
Symptom:	After hareboot or reboot, POD license is not activated.		
Condition:	POD factory-installed licenses are not activated. Only a small set of G648are impacted and no other platforms are impacted.		
Recovery:	Reinstall factory-installed licenses after every reboot or hareboot.		

Defect ID:	FOS-825388		
Technical Severity:	Critical	Probability:	Medium
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.2c	Technology:	FCIP - Fibre Channel over IP
Symptom:	FCIP Tunnel up, but all I/O stops flowing over the tunnel and application timeouts		
Condition:	FCIP tunnel in FCR configuration has a slow leak of end to end streamcredits. When the credits are exhausted, all IO is halted.		
Workaround:	Bounce the VE port(s)		

Defect ID:	FOS-822104		
Technical Severity:	Critical	Probability:	Medium
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.1	Technology:	FCIP - Fibre Channel over IP
Symptom:	User may experience FCIP ingress traffic stopped due to no more internal credits available and associated C3-1014/C3-1015 RASLOG messages on a 7840 platform or C4-1014/C4-1015 RASLOG messages in a chassis with an SX6 blade. In the case of an SX6 blade, the blade will be faulted after multiple attempts to recover internal credits.		
Condition:	This stems from a timing issue during either tunnel disable or tunnel down processing where credits from FCIP back to FTNL aren't sent. This leads to permanent flow control on the peer side and the credit loss on the peer side FC ingress side.		

Defect ID:	FOS-821689		
Technical Severity:	Critical	Probability:	null
Product:	Fabric OS	Technology Group:	Virtualization
Reported In Release:	FOS8.2.1c	Technology:	NPIV - N-Port ID Virtualization
Symptom:	Customer unable to access storage after ISL is enabled.		
Condition:	This is seen when the device sends FLOGI with VVL key of BRCD, VVL bit and NPIV bit set and VVL version of 0 (zero), followed by FLOGI with no VVL bit set.		
Workaround:	Disable D-port functionality on the device, or use a 32G device instead.		

Defect ID:	FOS-821073		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Monitoring/RAS
Reported In Release:	FOS8.2.1d	Technology:	Monitoring and Alerting Policy Suite (MAPS)
Symptom:	Customers may encounter: 1. Specific 3rd party devices flood the switch with GID_PN requests, leading to delays and impact monitoring applications. 2. Maps put out alert about Tx Power of SFP being 0.		
Condition:	The flood of GID_PN only happens on switches that have QSFP, QSFP28(YTA) and running FOS v8.1.2g/later, v8.2.1c/later and v8.2.2/later. Maps alert can happen on any SFP type and any release.		

Defect ID:	FOS-820194		
Technical Severity:	Critical	Probability:	Low
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.1c	Technology:	FSPF - Fabric Shortest Path First
Symptom:	FSPF daemon crashes and causes failover.		
Condition:	This occurs when EX-port trunk is coming online.		
Workaround:	Enable the EX-port trunk only when the switch is not busy, to avoid this rare timing issue.		
Recovery:	The failover does automatically recover the trunk.		

Defect ID:	FOS-819887		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.1d	Technology:	Analytics Monitoring
Symptom:	BSL uploads may not show any ports stats in file fibrechannel-stats-db		
Condition:	This may occur with any Time zone change or system date change (using CLI command date) or any NTP server sync that results in drift greater than 30 seconds.		
Workaround:	Any Time zone change or system date change (using date command) must be accompanied by system reboot for the BSL data to be properly interpreted right.		

Defect ID:	FOS-819695		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.1c	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	From BNA, when the user adds the rule HA_SYNC with operator ge, g, for the active policy, the system does not generate an error as would be expected.		
Condition:	This occurs with BNA, when adding the rule HA_SYNC with operator ge, g		

Defect ID:	FOS-819210		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2j	Technology:	High Availability
Symptom:	Customer may observe cold recovery on fixed-port switches during FOS firmware upgrade, resulting in traffic disruption		
Condition:	This may be seen only on fixed-port switches following an upgrade to FOS8.1.2j or later and FOS8.2.1d or later. Once on FOS8.1.2j and FOS8.2.1d, an hareboot from a daemon panic or CLI may trigger a cold recovery again. This stems from a small timing window during ha warmrecovery on fix-port switches and does not occur with every warm recovery. Directors are not impacted by this issue and fixed-port switchrunning FOS 8.2.2 and above are not impacted.		

Defect ID:	FOS-819122		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.0a	Technology:	FCIP - Fibre Channel over IP
Symptom:	Extension device may hit out memory condition signified by the followingRAS Log: XTUN-1001 FTNL Tunnel 24 Memory allocation failed tracker 3/831. The extension device may also encounter DP panics once memory is depleted.		
Condition:	Varying a FICON chipid offline when running through an extension device with FICON emulation enabled. In addition, this can be hit when hitting exception cases while running an HCL FOS upgrade. This issue is more pronounced in a large device configuration.		

Defect ID:	FOS-818669		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.2d	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	CLI command device login --show output may reflect some ports missing from the CLI output.		
Condition:	This may occur with UCS device ports with a base address ending in 0x40 0x80 or 0xc0.		
Workaround:	change addressing around to have these devices on ports with AL_PA=0x00.		

Defect ID:	FOS-818055		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1c	Technology:	High Availability
Symptom:	Director cold recovery after standby CP reports hasmd panic and activeCP reports pdmd panic. If user was performing lscfg, it may fail with raslog [PMGR-1006], 204690/5858, SLOT 1 CHASSIS, WARNING, , Attempt to move port(s) -1 on slot -1 to switch failed.		
Condition:	Occasionally, invalid PORTMAP range in VF config files caused memory corruption on X6 directors after upgrade from FOS8.1.x to FOS8.2.x.		
Recovery:	1. configupload -vf 2. Manually modify the uploaded VF config file to NOT contain ranges that have port numbers between 1800 and 3399. 3. configdownload -vf (Use the modified VF config file) 4. An automatic cold reboot will occur.		

Defect ID:	FOS-817829		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Virtualization
Reported In Release:	FOS8.2.1b	Technology:	Virtual Fabrics
Symptom:	Switch reboot after execute "lscfg --delete" command to deleting a logical switch.		
Condition:	A race condition happened while executing "lscfg --delete" and "agshow" command at the same time. CLI agshow accessed memory just being freed by lscfg.		
Workaround:	Run "lscfg --delete" and "agshow" commands two minutes apart.		

Defect ID:	FOS-817718		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.1d	Technology:	FCIP
Symptom:	Detected termination of process esmd during non-disruptive firmware migration from v8.2.1d to v8.1.2d.		
Condition:	This was encountered during a downgrade from v8.2.1d on BR 7840 switch		

Defect ID:	FOS-817564		
Technical Severity:	Critical	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2a	Technology:	Fibre Channel Services
Symptom:	Kernel Panics/cold recoveries encountered in core switches, following exchanges getting timedout.		
Condition:	This is seen when End device sends out-of-order mal-formed multi-frame Common Transport sequence destined for the Name Server that appears to be a single-frame sequence and a multi-frame sequence with the same sequence ID. Other Name Server destined frames are being received at the same time.		
Workaround:	Disable the offending end devices.		
Recovery:	The switch recovers after the cold boot.		

Defect ID:	FOS-817272		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.1c	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	After MAPS changes, MAPS daemon (mdd) encountered a panic which it could not recover from and HA sync was lost.		
Condition:	During normal operation, a rare race condition led to process deadlock.		

Defect ID:	FOS-816973		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	SNMP - Simple Network Management Protocol
Symptom:	Historical graph values for TX/RX are all zeros. Real-time graph values are accurately displayed.		
Condition:	When displaying historical graph values for TX/RX, the historical display may show all zeros when monitoring on GEN 6 platforms. Happens only when monitoring for historical graph values (Real-Time graph values for TX/RX have no issue). Issue is only seen when monitoring from BNA 14.4.4 or BNA 14.4.5. Issue is not seen with older versions of BNA or with SANnav.		
Workaround:	Use an older version of BNA to display historical graph values for TX/RX.		
Recovery:	Rarely seen on GEN 5 platforms, but will recover on next historical display request.		

Defect ID:	FOS-816740		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.1b	Technology:	ISL - Inter-Switch Linking
Symptom:	LISLs offline following upgrade from from FOS8.0.x to FOS8.1.x-->FOS8.2.x		
Condition:	This occurs due to stale isl ports in code being carried over from FOS8.0.x FOS8.2.x		

Defect ID:	FOS-816300		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1c	Technology:	SNMP - Simple Network Management Protocol
Symptom:	SNMP-Get ipNetToMediaIndex returns "lo" on X6 and "chassis" on DCX8510. Both should return "eth0".		
Condition:	Issue will be seen upon querying ipNetToMediaIndex.		

Defect ID:	FOS-816274		
Technical Severity:	Medium	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	Fibre Channel Services
Symptom:	When viewing the device using --show output, fabric interconnect devices may not join the existing members of a group.		
Condition:	Specific third party devices connected to ports that have area 0xff in the Port Address.		
Workaround:	Move the connection to a port without 0xff area.		
Recovery:	Move the connection to a port without 0xff area.		

Defect ID:	FOS-816025		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Virtualization
Reported In Release:	FOS8.2.1a	Technology:	NPIV - N-Port ID Virtualization
Symptom:	Standby CP encountering Out Of Memory (OOM) reboot on task esmd		
Condition:	Devices logging in and out of F-ports multiple times per second.		
Workaround:	Reduce the login/logout frequency of devices.		

Defect ID:	FOS-816023		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.2g	Technology:	FCIP - Fibre Channel over IP
Symptom:	FX8-24 with XRC Emulation Enabled, DP panic encountered.		
Condition:	FX8-24 FCIP configuration with FICON Emulation enabled for XRC traffic and then system reset occurs with IO active.		

Defect ID:	FOS-815828		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.2j	Technology:	SSH - Secure Shell
Symptom:	When changing templates and performing a failover the SSH config is not replicated to the standby CP		
Condition:	this occurs on the director class dual CP system		

Defect ID:	FOS-815352		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.1	Technology:	Extended Fabrics
Symptom:	IPEX LAN TCP connection will report failed in the application.		
Condition:	When there is packet loss on the LAN with Jumbo frames enabled, the LAN TCP receive process may stall causing LAN TCP connections to timeout.		

Defect ID:	FOS-815218		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.2a	Technology:	FCIP - Fibre Channel over IP
Symptom:	FCIP DP panics		
Condition:	After aborts have been processed on a FICON Emulation enabled tunnel when end device re-used an exchange.		
Recovery:	It recovers after panic.		

Defect ID:	FOS-815150		
Technical Severity:	Low	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.0	Technology:	Access Gateway
Symptom:	AG default mapping is incorrectly set for Brocade 6547 switch		
Condition:	This is seen when enabling AG mode, the F-port-to-N-port mapping is incorrect.		
Recovery:	Manually unmap the wrong ports from N-port 0 and then map the correct ports to N-port 0. Also, the unmapped ports may need to be converted to N-ports (portcfgnport) and have mapping applied to them.		

Defect ID:	FOS-814505		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS8.2.1c	Technology:	CLI
Symptom:	Remove sensitive information from clihistory command.		
Condition:	This is seen when a CLI is executed in command line mode with sensitive information provided in-line.		
Workaround:	Run the CLI in interactive mode to avoid the capture of sensitive data in clihistory .		

Defect ID:	FOS-814484		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.1c	Technology:	User Accounts & Passwords
Symptom:	Creating a user account with an uppercase password causes the login to fail.		
Condition:	Create user account in uppercase as below: >userconfig --add USERID -radmin -d "Default Admin" -p PASSWORD Account USERID has been successfully added. login: USERID PASSWORD: (PASSWORD) LOGIN INCORRECT		
Workaround:	Lower case password works		

Defect ID:	FOS-813983		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.2a4	Technology:	SSH - Secure Shell
Symptom:	Customer is unable to issue remote command call such as configshow command via SSH after code upgrade		
Condition:	This is seen only after code upgrade from 7.4.2a1 to 8.1.2a4		

Defect ID:	FOS-813918		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.2c	Technology:	CLI - Command Line Interface
Symptom:	Customer may encounter CP reboot from kernel panic, resulting in switch disabled with both Core Blades faulted.		
Condition:	This is encountered when an invalid logical port is provided to the debug command db x/y.		

Defect ID:	FOS-812603		
Technical Severity:	Medium	Probability:	null
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.1a	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	MAPS MISSING_SFP monitors on a Logical Switch (LS) but may not action for their own LS and instead alert the violation on Default Switch		
Condition:	This is seen when multiple logical switches are created and MISSING_SFP monitoring is activated in DS and at least 1 LS.		

Defect ID:	FOS-812496		
Technical Severity:	Low	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	CLI
Symptom:	The CLI command configure --default leads to a segmentation fault		
Condition:	This stems from a bug in the validation of the parameters when CLI command configure --default is invoked.		

Defect ID:	FOS-812165		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.0	Technology:	High Availability
Symptom:	MXG610 may experience an unexpected reboot		
Condition:	Memory leak in one of the daemons leads to unexpected reboot on MXG610		

Defect ID:	FOS-811375		
Technical Severity:	Medium	Probability:	null
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.2f	Technology:	FCIP
Symptom:	If a ficon circuit is created even though keepalive becomes 1000 due to it being ficon. portcfgshow fcipcircuit 24 0 still shows 6000.		
Condition:	This only occurs on a circuit created with ficon enabled. Any circuit created without ficon, modified later to be ficon, or ficon circuit changed to a different keepalive value and back to 1000 will not have this display issue.		

Defect ID:	FOS-811053		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
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-810689		
Technical Severity:	Medium	Probability:	Medium
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.1b	Technology:	FCIP
Symptom:	During code upgrade on Brocade 7840 switch, it went to Faulty with SLOT 0 DP 0 Hard Faults.		
Condition:	This happened when DP eUSB card mount timed out.		

Defect ID:	FOS-810471		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS7.4.2c	Technology:	Zoning
Symptom:	Users may encounter a situation where servers may lose connectivity		
Condition:	This may occur with session based zoning when the logical port in use is greater than 31.		

Defect ID:	FOS-809983		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS7.4.2c	Technology:	FCIP
Symptom:	Customer may encounter "a tape write errors has occurred" on OSTPenabled tunnel on 7800, when appending to LTO8 tape drives.		
Condition:	OSTP Enabled tunnel on 7800, FX8-24 or 7840 (SX6 in later FOS levels)when appending to an LTO8 tape. This issue does not occur with LTO5tape drives.		
Workaround:	Disable Open Systems Tape Pipelining feature on FCIP tunnel.		

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.		

Defect ID:	FOS-809487		
Technical Severity:	High	Probability:	High
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2d	Technology:	Access Gateway
Symptom:	Some of the Linux servers in different enclosures may run into Path Failures due to missing dual paths. The F-Port Status may show N-Port offline for the F-Port Logs		
Condition:	Access Gateway running v8.1.2 or any patch thereof and disable all ports in the F-port trunk (N-ports on the Access Gateway) and enable them again.		
Workaround:	Same as recovery		
Recovery:	Manually enable the disabled F-ports.		

Defect ID:	FOS-809445		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.	Technology:	MAPS - Monitoring and Alerting PolicySuite
Symptom:	MAPS custom policy along with customized MAPS rules may be lost and set to default.		
Condition:	This is seen upon unquarantine action being triggered by MAPS post supportsave collection.		

Defect ID:	FOS-809358		
Technical Severity:	Low	Probability:	Medium
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.1a	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	Customer may encounter HA out of sync resulting from mdd termination.		
Condition:	This may be seen when running scripts that perform mail server configuration.		

Defect ID:	FOS-809147		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.1a	Technology:	D-Port - Diagnostic Port
Symptom:	User may encounter CP reboot when running the CLI command portdporttest --clear all		
Condition:	This occurs when running portdporttest command, and accompanied by the message - Error: comm error between CLI and fabriccd		

Defect ID:	FOS-809097		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2f	Technology:	Web Tools
Symptom:	User may encounter "NetworkConfig: doGet Failed" on BNA, followed by weblinker restart on the director.		
Condition:	This occurs with BNA 14.4.4 and Brocade 8510-4 at 8.1.2g when viewing Network information tab for the director from the Element Manager > Admin option.		

Defect ID:	FOS-808614		
Technical Severity:	Medium	Probability:	null
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.1a	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	User may encounter AE ports to the Brocade Analytics Monitoring Platform fenced by FOS		
Condition:	This stems from the workaround to prevent the latency introduced due to ISL route change.		

Defect ID:	FOS-808302		
Technical Severity:	Medium	Probability:	null
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-808249		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.2a	Technology:	MAPS - Monitoring and Alerting Policy Suite
Symptom:	User may encounter Event Code Description: RuleName=defCHASSISHA_SYNC_0, Condition=CHASSIS(HA_SYNC==0), Obj:Chassis [HA_SYNC,0] has contributed to switch status MARGINAL		
Condition:	This stems from a memory leak issue.		

Defect ID:	FOS-808171		
Technical Severity:	High	Probability:	null
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. That needs to be monitored for threshold crossing detection and faulting the blade to isolate the problem		

Defect ID:	FOS-808168		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2g	Technology:	Web Tools
Symptom:	Webtools session may timeout and lead to weblinker termination.		
Condition:	This may occur if the WebTools session is left open for an extended period and then an Application Supportsave is attempted via WT .		

Defect ID:	FOS-808167		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2g	Technology:	Spectre
Symptom:	User Deleted a logical fabric in SANnav and that led to CP Panic		
Condition:	This is a rare incident caused by a kernel corruption bug.		

Defect ID:	FOS-808166		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2g	Technology:	Web Tools
Symptom:	User may encounter WT session time out before the set threshold 2 hour period.		
Condition:	This may occur when the WT session is open and the switch is busy on zone merge or other operation. WT sessions times out instead of gettingswitch busy message.		

Defect ID:	FOS-808120		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Other
Reported In Release:	FOS8.1.2g	Technology:	Other
Symptom:	errdumpall may show ERROR C4-1002 "Port xx chip failed due to an internal error." for all isl ports.		
Condition:	This is accompanied by FFDC C4-5352 "Port detected busy buffer stuck error. Port initialization will be retried" resulting from buffer loss.		

Defect ID:	FOS-808114		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.2	Technology:	Hardware Monitoring
Symptom:	SNMP cannot get the slot temp information,		
Condition:	This is encountered due to a timing issue between Environment Monitor (EM) and SNMP		

Defect ID:	FOS-808099		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.2g	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	Unable to login as radius user with peap-mschapv2 protocol		
Condition:	This is encountered upon importing the radius CA certificate and attempting to login as radius user.		

Defect ID:	FOS-808098		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.1.2g	Technology:	Security Policies
Symptom:	FCAP import fails with the error "Error: key usage does not include certificate signing"		
Condition:	This is encountered with the switch in strict mode.		

Defect ID:	FOS-808084		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Other
Reported In Release:	FOS8.1.2g	Technology:	Other
Symptom:	Disabling the trunk master of an EX-Port Trunk on a Brocade 8510-8 resulted in routing issues for Edge to Edge fabric traffic		
Condition:	This may be encountered in a non-VF BackBone environment.		

Defect ID:	FOS-808083		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Virtualization
Reported In Release:	FOS8.1.2g	Technology:	Virtual Fabrics
Symptom:	Hafailover results in the port with port address zero being disabled.		
Condition:	FMS mode must be enabled in the logical switch. A base fabric must be operational in the switch. The logical switch must have Allow XISL enabled in the configure CLI command. One of the following conditions would have needed to occur since the last hafailover: - A chassis reboot or power cycle - Enabling Allow XISL in the configure CLI command - Adding a new domain to the base fabric - Removing and then re-adding an existing domain in the base fabric		
Recovery:	Enable the port with port address zero after hafailover		

Defect ID:	FOS-808082		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.2g	Technology:	Hardware Monitoring
Symptom:	User may encounter error EM-1226 "Slot # is being powered off as it was detected as faulty during previous INIT."		
Condition:	This was observed after unplugging all power cords from the chassis and plugging them back after a few minutes.		

Defect ID:	FOS-808069		
Technical Severity:	Medium	Probability:	null
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.2b	Technology:	FCIP
Symptom:	SAN Traffic from Edge Fabrics to Brocade X6-4 (i.e routed datacentre backbone) was delayed by high number of buffer credit zero counters.		
Condition:	This was encountered when Brocade 8510-4 switches using FX8-24 router blades were replaced with Brocade X6-4 switches with SX-6 router blades.		

Defect ID:	FOS-807921		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2g	Technology:	CLI - Command Line Interface
Symptom:	Spinfab failed on E-ports connected to HTA and HMA QSFP and spinfabgot passed after configuring the E-port to D-Port		
Condition:	This is seen when running the CLI command "spinfab -ports 6/8-15"		

Defect ID:	FOS-807918		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1b	Technology:	Web Tools
Symptom:	When creating an Isan Peer zone using Webtools one of the members that was added as Peer Member prior to enabling the configuration gets added to the Principal member list after performing a config enable usingWT		
Condition:	This is encountered upon creating an Isan Peer zone using Webtools with duplicate non-alias peer zones that result in peer zone members in the principle zone		

Defect ID:	FOS-807916		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.2g	Technology:	FC-FC routing
Symptom:	E2E devices may be found stuck in initializing state		
Condition:	This may be encountered after toggling one of the core switch in the edge fabric		

Defect ID:	FOS-807908		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2g	Technology:	CLI - Command Line Interface
Symptom:	Static to dynamic Dport on Brocade HBA failed due to EL failure on the remote end (HBA)		
Condition:	This is seen when: a. Issue portdisable 18;portcfgdport --enable 18;portenable 18 on port connected to Brocade HBA b. Issue portdporttest --show 18 to check the results		

Defect ID:	FOS-807834		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1b	Technology:	Firmware upload/download
Symptom:	Non-disruptive migration may not complete and switch may become unusable		
Condition:	In a rare case, on pizza boxes, during non-disruptive firmwaredownload HASM may go to stuck state due to missing updates from FSS, during HCL.		
Recovery:	Reboot the switch to recover from this state where hasm state is stuck and firmwaredownload in-progress message is shown for very long time.		

Defect ID:	FOS-807822		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2g	Technology:	Fibre Channel Services
Symptom:	Observed termination of appsvrdd		
Condition:	This is seen after non-disruptive upgrade using CLI, followed by issuing "mapsdb --clear all" and "sddquarantine --clear all". appserverd termination is seen a few minutes later.		

Defect ID:	FOS-807821		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	System
Reported In Release:	FOS8.2.1a	Technology:	CLI
Symptom:	When running portloopbacktest on multiple ports, a link bounce on one port during test will cause subsequent ports to also fail.		
Condition:	This is an issue with portloopbacktest in mode 1 on multiple ports		

Defect ID:	FOS-807808		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Other
Reported In Release:	FOS8.1.2g	Technology:	Other
Symptom:	User encountered NS (nsallshow) database mismatch on Brocade X6-8 director chassis.		
Condition:	This was seen after a disruptive migration, leading to missing devices that are part of E2E zone.		

Defect ID:	FOS-807804		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.1b	Technology:	FCIP
Symptom:	The active CP may panic, leading to HA failover after issuing the CLI command 'lacr --default'. And the command itself is not executed.		
Condition:	This may occur when attempting to: 1. Delete all portchannels with a single command 2. Downgrade to FOS release older than v8.2.0. in an environment with a mix of portchannels created in the default switch (extension_dynamic_lag, extension_static_lag and fcoe_dynamic_lag).		

Defect ID:	FOS-807802		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1b	Technology:	Platform Services
Symptom:	User may encounter cold termination logged on console while stop monitoring the switch from SANnav		
Condition:	This may occur if switch is un-monitored from SANnav.		

Defect ID:	FOS-807757		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1b	Technology:	Web Tools
Symptom:	After creating new peer zone or modifying existing peer zone, all peer zones are removed from effective zone configuration.		
Condition:	This is encountered when creating new peer zone or modifying existing peer zone in FOS8.2.1b release.		

Defect ID:	FOS-807740		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1b	Technology:	Firmware upload/download
Symptom:	Firmware download may fail with error messages "Firmware download failed on standby CP - Unable to update the package list file. (0x3f)" and "cmd:/bin/cp /tmp/fwdl-2149/release.plist /mnt/var/images/SWBD165/plist >/dev/null 2>&1 failed ret = 1"		
Condition:	This is a rare occurrence resulting from a failure in system copy command at that instant. It works as expected upon retry.		
Recovery:	Retry firmwaredownload to resolve the issue.		

Defect ID:	FOS-807708		
Technical Severity:	Medium	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1a	Technology:	SNMPv2, SNMPv3 & MIBs
Symptom:	Two different swTelnetTable objects are found to be defined in FOS8.2.1a SW-MIB.		
Condition:	This is generally a benign issue but may confuse and cause issues with some MIB compilers.		

Defect ID:	FOS-807634		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.1b	Technology:	AAA - Authentication, Authorization, and Accounting
Symptom:	IPv6 with peap-mschapv2 is not a supported combination. However IPv6 radius configuration is being successfully added with peap-mschapv2 protocol using REST.		
Condition:	This seen when IPv6 radius configuration is being added with peap-mschapv2 protocol		

Defect ID:	FOS-807452		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.1b	Technology:	SSH - Secure Shell
Symptom:	User may fail to login using SSH and the SSH connection is closed.		
Condition:	This may be encountered on Brocade 7840 when over 215 user configurations are added using CLI command "userconfig --add" Users configured past 215 iterations encounter this symptom.		

Defect ID:	FOS-807118		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1b	Technology:	Firmware upload/download
Symptom:	User may observe a fwdl core switch on Brocade G610		
Condition:	This may be seen while performing firmwaredownload		

Defect ID:	FOS-807113		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.2.1b	Technology:	FC-FC routing
Symptom:	User may observe several instances of the following VERIFY message while taking supportsave. VERIFY - Failed expression: 0, file = src/sys/dev/asic/condor4/c4_act.c, line = 958, kernel mode args = 19, 4294967295, 46, 0, 0		
Condition:	This occurs on Brocade G610 when the Front end Encryption enabled port goes offline during HA or ports 44-47 goes offline, resource mightnot be recovered appropriately and user will see a VERIFY		
Workaround:	Please disable/enable the Front end Encryption enabled port.		

Defect ID:	FOS-807112		
Technical Severity:	High	Probability:	Medium
Product:	Fabric OS	Technology Group:	Other
Reported In Release:	FOS8.2.1b	Technology:	Other
Symptom:	User may encounter Weblinker crash upon issuing "supportlink --send"		
Condition:	This may be seen on a switch that somehow gets into a state where itappears to have 2 base switches available on the fabric.		

Defect ID:	FOS-807030		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1b	Technology:	Platform Services
Symptom:	Performing vulnerability scans (Qualys) leads to high CPU load and Multiple config and secnotify processes are showing as consuming all memory.		
Condition:	This is encountered when vulnerability scans are being performed		

Defect ID:	FOS-807015		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.1b	Technology:	Flow Vision
Symptom:	MAPS rules do not trigger on NVME flow for the IO fields IO_RD_BYTES& IO_WR_BYTES.		
Condition:	This is encountered only for IO_RD_BYTES & IO_WR_BYTES.		

Defect ID:	FOS-806993		
Technical Severity:	Medium	Probability:	Low
Product:	Fabric OS	Technology Group:	FICON
Reported In Release:	FOS8.1.2a	Technology:	FICON CUP
Symptom:	During hafailover portion of code upgrade, ficud terminates.		
Condition:	FMS Mode must be enabled in the logical switch. The logical switch must have more than 32 trunk master E_Ports. This problem is more likely to occur in FOS8.1.0 or later, as the FMS processing added ICLs to its trunk master list in later releases.		
Workaround:	Disable ports to lower trunk masters count to 32, or Disable FMS mode.		

Defect ID:	FOS-806944		
Technical Severity:	Medium	Probability:	null
Product:	Fabric OS	Technology Group:	Traffic Management
Reported In Release:	FOS8.1.2f	Technology:	FC-FC routing
Symptom:	Out-of-order frames experienced on end devices, even in a non-long distance environment.		
Condition:	After a switch reboot or slot power cycle, with high traffic.		
Recovery:	Power cycle the core blades, one at a time.		

Defect ID:	FOS-806903		
Technical Severity:	Medium	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	Firmware upload/download
Symptom:	Pre v8.2.1b FOS releases do not permit a downgrade to v8.1.x FOS versions on Brocade 6505 and Brocade G610 platforms.		
Condition:	This is an enhancement request to permit downgrade from FOS versions v8.2.1b and above to special "v8.1.x Test Only" versions of FOS with limitations on license configuration for Brocade 6505 and Brocade G610 platforms.		

Defect ID:	FOS-806679		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Monitoring/RAS
Reported In Release:	FOS8.1.2	Technology:	Logging
Symptom:	CP reboot with "Reset" as reason code, resulting in incomplete kernel panic dump.		
Condition:	When kernel core dump needs to happen on FOS v8.x, hardware watchdog timeout triggers CP reset.		

Defect ID:	FOS-806334		
Technical Severity:	Medium	Probability:	null
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.1	Technology:	Security Policies
Symptom:	User sees the error message "mv: '/etc/syslog-ng/ca.d/ca.pem' and '/etc/syslog-ng/ca.d/ca.pem' are the same file" when importing a certificate named ca.pem.		
Condition:	This is encountered only when importing a certificate named ca.pem. This results from a conflict in the naming convention that needs to be fixed		

Defect ID:	FOS-806192		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.1.2d	Technology:	FCIP - Fibre Channel over IP
Symptom:	User may experience FCIP disk traffic disruption.		
Condition:	This may occur due to datapath FPGA getting into a bad state		
Recovery:	Reboot the switch for recovery.		

Defect ID:	FOS-805954		
Technical Severity:	High	Probability:	Low
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.2d	Technology:	Platform Services
Symptom:	User may see Raslog EM-1010 - Data Processor (DP1) offline on BrocadeSX6 Blade or Brocade 7840.		
Condition:	This may be encountered while running supportsave that triggers by an Out of Memory condition.		

Defect ID:	FOS-805605		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1a	Technology:	Access Gateway
Symptom:	User may see software verify error while disabling F-Port Trunk.		
Condition:	When disabling F-Port Trunk on switch having Access Gateway connected.		

Defect ID:	FOS-805578		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1a	Technology:	Management GUI
Symptom:	Webtools doesn't report correct port stats and the 'Clear Counters' button doesn't clear stats on all the ports.		
Condition:	This issue is not reproduced consistently. There is no LISL port that exists in the switch LS. Reported using an X6-8 chassis.		

Defect ID:	FOS-805531		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Monitoring/RAS
Reported In Release:	FOS8.2.1a	Technology:	Audit Log
Symptom:	Observed raslogd core file on B7810 extension switch during non-disruptive upgrade to v8.2.1a_rc1_bld08		
Condition:	If the secured syslog entries are enabled and if the syslog CA certificate validation failed to mismatched fields, then the raslogd will cause core files.		
Workaround:	The syslog CA certificates should not contain mismatched fields. If the certificate has mismatched fields then secure syslog has to be disabled to avoid raslogd crash.		

Defect ID:	FOS-805527		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1a	Technology:	Firmware upload/download
Symptom:	The standby CP encountered "Oops: Kernel access of bad area, sig: 11 [#1]" after firmware download on GEN6 Chassis that includes all packages loaded and hafailover.		
Condition:	Occurs during the firmware upgrade or hafailover. This is a rare occurrence due to warm memory corruption.		

Defect ID:	FOS-805512		
Technical Severity:	High	Probability:	null
Product:	Fabric OS	Technology Group:	Security
Reported In Release:	FOS8.2.1a	Technology:	Security Policies
Symptom:	"ALL_DCC_POLICY" may result in a sec2 termination.		
Condition:	When attempting to create a lockdown DCC policy with invalid name "ALL_DCC_POLICY"		

Defect ID:	FOS-804126		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	CLI - Command Line Interface
Symptom:	GE speed mismatch between 'switchshow' output and 'portcfgge --show' output. Also unable to change port speed to 1G or issue 'portcfgdefault'. Configuration replay errors seen during switch bootup and if the port is configured as a LAN 10G port, it may come up as a WAN port after a reboot		
Condition:	On 7810, if GE port speed is set to 10G on any GE port and reboot is performed after a time based license has expired		
Workaround:	Install a valid license prior to rebooting the switch.		

Defect ID:	FOS-804650		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	Virtual Fabrics
Symptom:	Software verify will be seen for each port that is attempted to be moved between partitions.		
Condition:	Issue observed when moving FC32-64 blades between Logical partitions.		

Defect ID:	FOS-804616		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	CLI - Command Line Interface
Symptom:	Software VERIFY error when WWN based Persistent PID is configured		
Condition:	When there is a WWN based Persistent PID feature is configured on the switch, software VERIFY error maybe seen in the following cases: a. With no WWN entries bound with the PID and if a reboot/hareboot is issued on the switch b. Last bounded entry is attempted for removal using "wwnaddress --unbind"		
Workaround	At least one WWN based Persistent PID entry could be bound to avoid the VERIFY		

Defect ID:	FOS-804155		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.1	Technology:	Flow Vision
Symptom:	Non disruptive upgrade to 8.2.1 may fail on a chassis with sys_mon_all_vms monitoring flow.		
Condition:	Observed when non disruptive upgrade is issued on a chassis where sys_mon_all_vms monitoring flow is active.		
Workaround:	Deactivate sys_mon_all_vms before upgrade using "flow --deact sys_mon_all_vms" CLI and activate the predefined flow (flow --act sys_mon_all_vms) after upgrade is complete.		

Defect ID:	FOS-804745		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	Configuration Fundamentals
Symptom:	Ras Log [C3-1021]"Encryption Compression Block error" and IFL link will not come online when enabling ISL_RDY mode and Encryption on IFL links		
Condition:	An Ex-Port to E-Port link (IFL) will flap continuously, when both Encryption and ISL_RDY mode are enabled on the Ex-Port. The port will not come online.		

Defect ID:	FOS-804224		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.1	Technology:	FCIP
Symptom:	Observed ESM-1101 during a SX6 blade slot power off with one of the following: esm_cfg_sys.c:1586 esm_portcfg_clear() failed rc:176 esm_slot.c:1603 failed to release GE:10/ge2 rc:176		
Condition:	ESM-1101 event can occur during a slot power off of an SX6 blade		

Defect ID:	FOS-804203		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Virtualization
Reported In Release:	FOS8.2.1	Technology:	Virtual Fabrics
Symptom:	System panic may occur, although rarely, while collecting supportsave on a GEN6 chassis systems		
Condition:	Supportsave collection operation may trigger the system panic		

Defect ID:	FOS-804058		
Technical Severity:	High	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.1.2a	Technology:	HW Monitoring
Symptom:	porterrshow does not display TX frames on FC8-64 blade		
Condition:	This only applies to 8G platforms.		

Defect ID:	FOS-804173		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	SNMP V2, SNMP V3 &MIBs
Symptom:	SNMP trap, swDeviceStatusTrap, is generated with "Logout" reason code instead of Login.		
Condition:	The issue is observed when the QSFP port connected to a device is enabled.		

Defect ID:	FOS-804694		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	Firmware upload/download
Symptom:	The standby CP firmware doesn't sync with the active CP firmware version when CPs have different firmware versions.		
Condition:	If Auto firmwaresync is set from active and firmwaredownload is performed on the standby CP, and when reboot/hafailover is issued, the firmwaresync will not be triggered.		
Workaround:	Issue the firmwaresync command manually if firmware sync is required.		
Recovery:	Issuing the firmwaresync manually will cause the firmware to be in sync with the active CP.		

Defect ID:	FOS-804296		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	Configuration Fundamentals
Symptom:	CLI command configdefault on a X6-8 and X6-4 chassis base switch, that has encrypted links, pass without warning the user to remove the encrypted links before the operation		
Condition:	CLI command configdefault should be blocked when encrypted port is configured on FC32-48 blade, otherwise results in resource unallocated error.		
Workaround	Remove the encryption configuration from the FC32-48 port before attempting the configdefault operation		

Defect ID:	FOS-804103		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.1	Technology:	Flow Vision
Symptom:	Failure to remove SIM port blocks attempt to remove expired flow vision license.		
Condition:	This symptom is observed only when flow generator flow is active		
Workaround	Remove SIM port using "flow --ctrlcfg simport -disable".		
Recovery	Remove SIM port using "flow --ctrlcfg simport -disable".		

Defect ID:	FOS-804069		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	Software Installatiion & Upgrade
Symptom:	System-description attribute of "lldp --show" command incorrectly displays FOS 8.2.1 version		
Condition:	Issue may be observed after non-disruptive downgrade from FOS v8.2.1to v8.2.0 firmware version.		
Workaround	Before firmware downgrade, system-description attribute can be modified to display correct firmware version using "lldp --config -sysdesc <string>" command.		
Recovery	After firmware downgrade, system-description attribute can be modifiedto display correct firmware version using "lldp --config -sysdesc <string>" command.		

Defect ID:	FOS-804072		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.2.1	Technology:	Management GUI
Symptom:	WebTools displays incorrect property members for peerzones		
Condition:	When peerzone is empty after removing peerzone alias using WebTools		
Workaround	Ensure that the peerzone is not empty after removing the alias. The issue does not occur if member exist in the peer zone after alias removal.		

Defect ID:	FOS-804124		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.1	Technology:	WAN Performance Analysis Tools
Symptom:	Unable to enable a WAN Tool session		
Condition:	When configured WAN Tool sessions exceed the supported limits while all sessions are in a disabled state results in the inability to enable WAN Tool session in this state.		
Workaround:	Keep the number of configured WAN Tool sessions for a DP within the supported limit.		
Recovery:	Delete WAN Tool sessions on a DP to within the supported amount. Then attempt to enable the session in question.		

Defect ID:	FOS-804131		
Technical Severity:	Medium	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.2.1	Technology:	WAN Performance Analysis Tools
Symptom:	portcmd --wtool stop-all error message isn't clear that its only intended for Automated WAN Tool sessions		
Condition:	When attempting to stop User WAN Tool sessions with portcmd --wtool stop -all command		
Workaround	Use "portcmd --wtool <wt-id> stop" command to stop User WAN Tool sessions		

Defect ID:	DEFECT000624549		
Technical Severity:	Low	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	CLI - Command Line Interface
Symptom:	supportsave does not include the output from CLI command "seccertutil show -all"		
Condition:	This command encounters permissions issue and consequently this operation output is not reflected in supportsave		

Defect ID:	DEFECT000624549		
Technical Severity:	Low	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.0.1	Technology:	CLI - Command Line Interface
Symptom:	supportsave does not include the output form CLI command "seccertutil show -all"		
Condition:	This command encounters permissions issue and consequently this operation output is not reflected in supportsave		

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

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

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

Defect ID:	DEFECT000653676		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Monitoring
Reported In Release:	FOS8.2.0	Technology:	Flow Vision
Symptom:	Flow monitor monitors stats only on the current active master port of the trunk group. However flows created on the member of EX port trunkgroup doesn't show stats after the port transitions into new master port of the trunk group. E.g: Port 34 and 35 are members of EX-port trunk group. flow --create kp6i -ingrport 34 -srcdev "020a00" -dstdev "caf001" -fea mon (Slave port) flow --create kp7i -ingrport 35 -srcdev "020a00" -dstdev "caf001" -fea mon (Master port) kp6i is not showing stats after port 35 goes offline and port 34 becomes new master.		
Condition:	Flow vision is used to monitor flows on an EX port trunk group on an edge fabric.		
Workaround:	1. Deactivate all the flows defined in the trunk group. 2. Activate the flow on new master port.e.g: 1. flow --deact kp6i;flow --deact kp7i 2. flow --act kp6i		
Recovery:	1. Deactivate all the flows defined in the trunk group. 2. Activate the flow on new master port.		

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

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

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

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

Defect ID:	DEFECT000655837		
Technical Severity:	High	Probability:	Medium
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	High Availability
Symptom:	Customer may encounter 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:	DEFECT000655984		
Technical Severity:	Medium	Probability:	Low
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	SNMP - Simple Network Management Protocol
Symptom:	MIB capabilities newly configured after upgrading to the build 7.4 and above will get disabled when the switch downgraded to firmware version 7.3 or below.		
Condition:	1. User customising the MIB capability 2. User did mib capability changes in the v7.4.0 or above and downgrading it to v7.3.0 or below		
Workaround:	Reconfigure the MIB capabilities after firmware downgrade.		

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Defect ID:	DEFECT000650701		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	CLI - Command Line Interface
Symptom:	Director class switches limit chassis name to 15 characters while fixedport switches can support 31 characters.		
Condition:	CLI command "chassisname" cannot change switch name to greater than 15 characters on directors.		

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

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

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

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

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

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

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

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

Defect ID:	DEFECT000653066		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Extension
Reported In Release:	FOS8.0.2	Technology:	FCIP - Fibre Channel over IP
Symptom:	User may be unable to bring up IPEXT traffic on Brocade 7840		
Condition:	This may occur on Brocade 7840 with WAN, LAN, and Maintenance Port in same subnet		

Defect ID:	DEFECT000639880		
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:	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:	DEFECT000653341		
Technical Severity:	Medium	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS8.1.1	Technology:	CLI - Command Line Interface
Symptom:	snmp.*.default parameter are not written in config file by "snmpconfig --default snmpv3"		
Condition:	SNMP parameter such as snmp.usmUserPaswdEncFlag.default:0 appears only after configupload/configdownload. not after snmpconfig --default.snmpv3		

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

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

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

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

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

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

Defect ID:	DEFECT000652170		
Technical Severity:	High	Probability:	High
Product:	Brocade Fabric OS	Technology Group:	Management
Reported In Release:	FOS7.4.1	Technology:	Inband Management
Symptom:	EVMd panic while deleting a logical switch.		
Condition:	The may occur when user deletes a logical switch while a zonetransaction is still in progress.		

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

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

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

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

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

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

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

Defect ID: DEFECT000645904	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.2	Technology: High Availability
Symptom: After HA (hafailover/hareboot), the ports are online in switchshow, but internal states still have these ports marked offline. Thus routes are not programmed on these ports.	
Condition	This happens when there is a single port failed HArecover with RASLOG, [SWCH-1031], , SLOT 7 : FID 128, WARNING,, Port 0 recovery failed.

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

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

Defect ID: DEFECT000646323	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: CLI - Command Line Interface
Symptom: CLI command "portshow 0" reflect "FAA" as inactive, even when FAA is enabled for the port.	
Condition This is a cosmetic discrepancy, that appears in the output of only "portshow 0", with no : functional impact.	

Defect ID: DEFECT000646427	
Technical Severity: Low	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS7.4.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom User may observe a constant stream of the following raslog message: : [MAPS-1003], 58409, FID 128, WARNING,, SFP 34, Condition=ALL_OTHER_SFP(CURRENT>=50), Current Value:[CURRENT,50 mAmps],	
Condition These MAPS Messages are triggered by ELWL SFP type 57-1000262-01 when plugged into the : switch at Default Config.	

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

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

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

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

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

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

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

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

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

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

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

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

Defect ID: DEFECT000636851	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.2	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom MAPS CHASSISBAD_TEMP alert is not triggered on Brocade G620 switch :	
Condition This is observed on Brocade Gen 6 G620 switch. :	

Defect ID: DEFECT000642778	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom 'last 7 days' portion of the output from "mapsdb --show all" command may reflect altered in : the output of ""mapsdb --show details - day xxx" "	
Condition The alteration to the 'last 7 days' output occurs after "mapsdb --show details - day xxx" : command is executed.	

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

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

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

Defect ID: DEFECT000646248	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.2	Technology: Management GUI
Symptom	"Inherited FID" is not shown in the Switch info panel in webtools :
Condition	This is encountered in a LS enabled setting. :

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

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

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

Defect ID: DEFECT000647333	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: When user attempts to clone RoR rules, the CLI command returns "Specified group does not exist."	
Condition This is encountered when user attempts to clone MAPS RoR rules via the "mapsrule --clone" CLI.	

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

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

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

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

Defect ID: DEFECT000640021	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Software Installation & Upgrade
Symptom: auditcfg class state settings may not be retained after FOS upgrade. And all auditcfg classes may revert to enabled after upgrade.	
Condition This may be encountered on all platforms following a first upgrade from factory install or net : install.	
Defect ID: DEFECT000642851	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: D-Port - Diagnostic Port
Symptom: dporttest "nframes" parameter does not match the rx and tx counters in porterrshow output:	
Condition This may be encountered on Gen6 platforms :	
Defect ID: DEFECT000643776	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.4.1	Technology: Security Policies
Symptom: Switch running FOS v8.x panics when distributing password in a fabric with a mixed FOS versions of FOS7.1 or lower and FOS v8.x	
Condition Run "distribute -p PWD -d <switch-list>" command on a switch running FOS v7.1 or earlier to : distribute password database to a switch running FOS v8.x. The switch running FOS v8.x will panic while processing data received from earlier revision FOS. Mixed fabric releases with FOS v7.2/7.3 and 8.0.1 or later are not impacted.	
Workaround: Run the command from switches with the highest revision FOS, or upgrade the target/receiving switches to FOS v8.1.1a or later versions which has the fix.	

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

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

Defect ID: DEFECT000639785	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.1	Technology: Flow Vision
Symptom: On an AMP monitoring 20,000 flows, the customer may face following error while executing <flow --show sys_mon_analytics>. AMP1_114156:FID5:admin> flow --show sys_mon_analytics User defined Monitor flows are active on the chassis/LS: __¥0?#CE. Deactivate User defined Monitor flows to proceed	
Condition Executing <flow --show sys_mon_analytics> with 20,000 learned flows. :	
Recovery: 1. Retry the flow CLI command after 30 seconds 2. flow --reset sys_mon_analytics	

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

Defect ID: DEFECT000643334	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS7.4.1	Technology: FCIP - Fibre Channel over IP
Symptom: 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.	

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

Defect ID: 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 portrange 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.		

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

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

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

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

Defect ID: DEFECT000633848	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.2	Technology: CLI - Command Line Interface
Symptom: Help page for CLI command passwdcfg needs update to the -charset value section.	
Condition This is applicable only for the help page for the passwdcfg CLI command. :	

Defect ID: 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: DEFECT000634005	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.2	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: There is a discrepancy between the documentation and the actual CLI for MAPS policy creation on max policy name length.	
Condition This is seen when attempting to create a maps policy with policy name length of 32 characters. :	

Defect ID: DEFECT000614911			
Technical Severity:	High	Probability:	Medium
Product: Brocade Fabric OS		Technology Group: Monitoring	
Reported In Release: FOS8.0.1		Technology: RAS - Reliability, Availability, and Serviceability	
Symptom: 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: DEFECT000624498	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS7.4.1	Technology: Fibre Channel Services
Symptom: After zoning change, standby CP on all directors in the fabric go into rolling reboots.	
Condition When user tries to commit more than 1MB zone in a mixed fabric from a director switch the : commit will fail. Then if user tries to expunge the big zone config and enable another small cfg the standby CP of the director switch might crash.	
Workaround: Disable the zone config and enable another small zone config.	
Recovery: Disable the zone config.	

Defect ID: 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: 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: 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	
Condition User account is allowed to execute the 'sysshutdown' command when the role of the the : chassis level user is configured.	

Defect ID: DEFECT000628482	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: CLI - Command Line Interface
Symptom: Log into switch with multiple telnet sessions and then issue 'killtelnet', the switch fails to remove the killed session immediately from the "List of Sessions" table	
Condition Running the CLI on FOS v8.0.x :	
Workaround: Hit the enter key again before the killed session is gone from the list.	

Defect ID: 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: 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: DEFECT000619888	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Flow Vision
Symptom: CLI command "flow --show <flow_name>" may displays impossibly high number (4.29G) after statsclear or slotstatsclear	
Condition This results from a software bug in managing the counter wrap around condition and may be	
: seen intermittently after statsclear or slotstatsclear	

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

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

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

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

Defect ID: DEFECT000627130	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Fibre Channel Services
Symptom The user may observe VERIFY and not allowed to do a non-disruptive firmware upgrade to : v8.1.0 or HA fail over standby system, when zone DB size is close to the max zone DB size for a particular LS (logical switch).	
Workaround: User can reduce the zone DB size on LS and then perform the operation.	

Defect ID: DEFECT000627207	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Inband Management
Symptom The IOCTL error message is reported when eth0 or eth3 interface is down. :	

Condition When user set eth0 or eth3 interface to down state, the following error log message is displayed : ioctl(ETHTOOL_GSET) failed 19 /fabos/cliexec/ifmodeshow: [: integer expression expected	
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Defect ID: DEFECT000627440	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Management GUI
Symptom: An error message ""Failed to change the password" is reported when use EZSwitch setup to change the password on G610.	
Condition Cannot use EZSwitch setup to change password on G610. :	

Defect ID: DEFECT000627462	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.2	Technology: Configuration Fundamentals
Symptom: The uploaded configuration file might be missing the zoning.tizonefilter and will not be downloaded to the switch.	
Condition The upload config file is missing the "zoning.tizonefilter " key :	
Recovery: Manually set the setting for ti filtering after config download.	

Defect ID: 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 (eg. Cold reboot, switchdisable and then switchenable, portdisable all N-ports and then portenable all N-ports.	
Recovery: Portdisable and then portenable the F-ports which are not part of the configured port map.	

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

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

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

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

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

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

Defect ID: DEFECT000628050	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Configuration Fundamentals
Symptom: A harmless VERIFY error message may occur on a ISL link during encryption process.	
Condition A VERIFY error related to a file operation may occur when CLI and Brocade Network Advisor are : accessing the same switch at the same time.	

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

Defect ID: DEFECT000628163	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.2	Technology: SNMP - Simple Network Management Protocol
Symptom: Snmptaps --show in FOS v8.0.2 lists T11-FC-ZONE-SERVER-MIB twice.	
Condition This will be seen on all platforms running FOS v8.0.2. :	

Defect ID: DEFECT000628189	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.1.0	Technology: SSH - Secure Shell
Symptom: SSH connection to G610 switch will occasionally fail.	
Condition Sometime SSH connection with public key (password less login) may fail to login to G610 switch. : This condition is rarely to happen.	
Workaround: Disconnect and establish the connection again.	

Defect ID: DEFECT000628444	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: Flow Vision
Symptom: There is a spike difference seen in RD1RespTime measure when BNA polls within short period of time.	
Condition The difference in previous and current RD1RespTime measure is calculated in each polling cycle : in BNA application. There is a difference seen in this measure when BNA polled frequently.	
Workaround: Increase the polling interval in BNA.	

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

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

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: DEFECT000618094	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: D-Port - Diagnostic Port
Symptom: Spinfab command will return FAILED status when run on Analytics (AE) E-ports connected to AMP switches.	
Condition Occurs when spinfab is run against AE E-ports. :	

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

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

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

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

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

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

Defect ID: DEFECT000622718	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Extension
Reported In Release: FOS8.1.0	Technology: FCIP - Fibre Channel over IP
Symptom: Trace Route for the FOS FCIP extension platforms may fail in Brocade Network Advisor.	
Condition When attempting trace route from Brocade Network Advisor. :	

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

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

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

Defect ID: DEFECT000624170	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Access Gateway
Symptom: Host fails to discover targets after fabric switch and core Access Gateway are reboot.	
Condition After rebooting core Access Gateway and the connected fabric switch, host on edge AG may : not discover target in the fabric.	
Recovery: Issue a switch disable/enable on core Access Gateway will recover from the issue	

Defect ID: DEFECT000624435	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.0.1	Technology: AAA - Authentication, Authorization, and Accounting
Symptom: Customer observing display issue related to ldapcfg --show command after AMP upgrade from 1.5.0 to 2.0.0. Extra null entries being listed in output.	
Condition Upgrade the switch from pre 2.0.0 with ldap mapping configured to 2.0.0 or higher version hit : this. This is applicable to downgrade from 2.0.0 or higher to pre 2.0.0.	
Workaround: remove the /etc/fabos/ldap.map file before upgrade/downgrade between pre 2.0.0 to 2.0.0 higher version and vice versa.	
Recovery: Removing the /etc/fabos/ldap.map file and creating mappings again will recover from this issue.	

Defect ID: DEFECT000624603	
Technical Severity: High	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Traffic Management
Reported In Release: FOS8.1.0	Technology: FICON
Symptom: Interface Control Checks (IFCC's) may be logged against the CUP when the host executes a Write command with a large data transfer	
Condition In a two-switch cascaded configuration having a single 8G E-port with default credit configured. : Host executes a Write command with a large data transfer.	

Defect ID: DEFECT000625105	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Management GUI
Symptom Web Tools port error details tab for GigE ports displays errors, e.g. Collision, Dribbling, and Run : Time, that are not applicable for GigE ports.	
Condition All GigE supported platforms, e.g. FX8-24 blade , 7840 switch, and SX6 blade :	

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

Defect ID: DEFECT000625537	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: SNMP - Simple Network Management Protocol
Symptom : In swFCPortScn trap,VE-Port is displaying as E-Port for swFCPortBrcdType varbind. :	
Condition while sending the swFCPortScn trap :	
Workaround: Correct object is listed as VE port in MIB walk, but a state change of the VE port will generate the invalid port type. After Trap is generated the correct information is available for query.	

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

Defect ID: DEFECT000625584	
Technical Severity: High	Probability: Low
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.4.0	Technology: Security Vulnerability
Symptom CVE-2016-5195(Dirty Cow): Unprivileged local users could gain write access to otherwise read-only memory mappings, and thus increase their privileges on the system.	

Condition This can only be exploited by someone who has access to the switch already and it is limited to : G620 and BR7840 platforms
Workaround: Protecting against unauthorized logins.

Defect ID: DEFECT000625698	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: RAS - Reliability, Availability, and Serviceability
Symptom: D-Port tests may report failures if ran in parallel on all port of a QSFP.	
Condition Running simultaneous D-Port tests on multiple ports. :	
Workaround: Rerun tests on individual ports of QSFP.	

Defect ID: DEFECT000625758	
Technical Severity: Medium	Probability: Low
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: In Chassis switches, if there is (are) any faulty SFP's, then after HA failover MAPS triggers SFP_IN alert followed by SFP_FAULTY.	
Condition Switch needs to have unsupported SFPs plugged in. :	

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

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

Defect ID: DEFECT000626101	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: Though MAPS allows user to configure minimum toggle timeout as 2 seconds, but it uses 5 seconds as the minimum for the toggle action	
Condition This is the default behavior. :	

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

Defect ID: DEFECT000626367	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS8.1.0	Technology: IPsec - IP Security
Symptom: Preshared key length for IPsec policies is allowed to be less than 32 bytes when in FIPS mode.	
Condition Since there is no length check enforcement in Preshared key length, user can configure IPsec : policy with Preshared key less than 32 bytes when in FIPS mode. There is no functionality issue with Preshared key less than 32 bytes.	
Workaround: Modify the IPsec policy to use a Preshared key length greater than or equal to 32 bytes.	

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

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

Defect ID: DEFECT000626791	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: D-Port - Diagnostic Port
Symptom: D_Port long duration optical loopback test fails for the 32G port, when executed with "portdporttest --start -nframes <no_of_frames> <port>" option.	
Condition The D_Port test may fail, when the "portdporttest --start" command is executed with "-nframes" option having an argument value of 40 or more (I.e. to specify 40 million or more frames for the test). :	
Workaround: Instead of specifying the number of frames, the D_Port test time can be specified using the "-time" option with the "portdporttest --start" command to run the test for long duration.	

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

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

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

Defect ID: 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: DEFECT000617788	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Configuration Fundamentals
Symptom: Encountered configDownload failure with an error message : Generic Error- Process function of configdownload failed for filter "snmp".	
Condition This is encountered only, in the following scenario: : 1) Block ports using snmptraps block command. 2) Unblock using snmptraps unblock port ALL. 3) Execute configupload. 4) Execute configdownload.	

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

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

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

Defect ID: DEFECT000620517	
Technical Severity: High	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.1.0	Technology: Software Installation & Upgrade
Symptom: CLI fpgaupgrade does not work. Error message requests user to disable FOS.	
Condition This occurs when the command is executed on 32G platforms. :	

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 generatethe XTUN-1997 message and trigger a trace buffer on BR7840.	

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

Defect ID: DEFECT000621079	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Management GUI
Symptom: Port Admin view within webtools may show "Advanced mode and not Basic as was expected.	
Condition This may occur with the following steps: : - Set view of menu bar on webtools at the "Advanced" mode. - Close web browser(webtools's session). - Open your web browser again and start Web Tools. - Change view of Port Admin tab to "Basic" mode. - Click "Switch View" tab. And, please click the FC port in the G620 switch view.	

Port Admin view is now in "Advanced mode (as in first step)" not Basic as was expected.	
Defect ID: DEFECT000621079	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Management
Reported In Release: FOS8.0.1	Technology: Management GUI
Symptom: Port Admin view within webtools may show "Advanced mode and not Basic as was expected.	
Condition This may occur with the following steps: : - Set view of menu bar on webtools at the "Advanced" mode. - Close web browser(webtools's session). - Open your web browser again and start Web Tools. - Change view of Port Admin tab to "Basic" mode. - Click "Switch View" tab. And, please click the FC port in the G620 switch view.	
Port Admin view is now in "Advanced mode (as in first step)" not Basic as was expected.	

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

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

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

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

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

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

Defect ID: DEFECT000615272	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: Output of "mapsrule --help" is incomplete.	
Condition Run "mapsrule --help" CLI. :	

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

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

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

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

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

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

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

Defect ID: 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: 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 wont 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: 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: 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 temperately not available. :	

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 wont 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: 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 runs MAPS. :	

Defect ID: DEFECT000604960	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom Switch state remains in CRITICAL even when all the switch status contributing parameters : change from critical to marginal state.	
Condition This behaviour is seen in all platforms with FOS version 8.x :	

Defect ID: DEFECT000604974	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Security
Reported In Release: FOS7.3.2	Technology: HTTP/HTTPS
Symptom After upgrade to FOS v7.3.2 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 FOSv7.3.2 as this is side effect of fix done for the Defect 564450. This : defect does not impact 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: 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 such as: : 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: DEFECT000606375	
Technical Severity: Medium	Probability: High
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.0.1	Technology: Hardware Monitoring
Symptom The LED color during a portloopback test on 32G switch will flash Green. :	
Condition This defect is applicable to 32G platforms running loopback test. :	

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

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

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

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

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

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

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

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

Defect ID: 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: DEFECT000611046	
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: BR7840 went into switch bring up timeout reboot loop. .	
Condition When use ipfilter to block access to TCP port 514. This seems to impact BR7840 only. : ipfilter -show 7 any tcp 514 deny	
Workaround: Remove TCP port 514 from ipfilter block list to bring up switch.	

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

Defect ID: DEFECT000611715	
Technical Severity: Medium	Probability: Medium
Product: Brocade Fabric OS	Technology Group: Monitoring
Reported In Release: FOS8.1.0	Technology: MAPS - Monitoring and Alerting Policy Suite
Symptom: User is not allowed to create MAPS group with the supported MAX of 32 characters.	
Condition This issue is seen while create MAPS group via CLI with 32 characters. :	
Workaround: BNA will allow 32 chars in a group name.	

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

Defect ID: DEFECT000612616	
Technical Severity: High	Probability: High
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: 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.
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Defect ID: DEFECT000613818

Technical Severity: Medium	Probability: High
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Product: Brocade Fabric OS	Technology Group: Management
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Reported In Release: FOS7.0.0	Technology: Fibre Channel Services
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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.
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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.
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Defect ID: DEFECT000614009

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

Documentation related to the use of Fabric OS v8.2.3b can be found on EMC Online Support at: <https://dell.com/support>.

Note: 637820 From Fabric OS 6.3.0b onwards, Dell EMC is no longer customizing the Brocade documentation for various reasons. Dell EMC will instead post the same Brocade versions of the documentation that Brocade posts. To determine what is supported by Dell EMC as it may not match what is stated in the Brocade documentation, please refer to the Release notes or the *EMC Support Matrix* at: <https://elabnavigator.emc.com/eln/modernHomeSSM>, then select the **Stand-Alone Switch** link under **Connectivity**.

Software media, organization, and files

For information on related software environment and system requirements refer to the *EMC Support Matrix* available through the E-Lab Interoperability Navigator at select the Stand-Alone Switch link under Connectivity.

Installation

Installation of EMC Connectrix Enterprise Directors and Departmental Switches is coordinated through Dell EMC Global Services or through your local Dell EMC office.

Troubleshooting and getting help

Dell EMC support, product, and licensing information can be obtained as follows.

Product information: — For documentation, release notes, software updates, or for information about Dell EMC products, and service, EMC Online Support at: <https://dell.com/support>.

For Dell EMC product licensing, go to the EMC Online Support website at <https://dell.com/support> under **Service Center > Get and Manage Licenses > Connectrix**.

Technical support — For technical support, go to Dell EMC Customer Service or the Service Center on EMC Online Support at <https://dell.com/support>. To open a service request you must have a valid support agreement. Please contact your Dell EMC sales representative for details about obtaining a valid support agreement or to answer any questions about your account.

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