

Brocade Fabric OS v6.2.2d

Release Notes v1.0

September 21, 2010

Document History

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Overview

Fabric OS (FOS) v6.2.2d is a patch release based on FOS v6.2.2c. All hardware platforms and features supported in FOS v6.2.2 are also supported in v6.2.2d.

This release also contains fixes for many defects including those from the following list of patch releases:

- FOS v5.3.2c
- FOS v6.0.1a
- FOS v6.1.1d
- FOS v6.1.2b
- FOS v6.2.0g
- FOS v6.2.1b
- FOS v6.2.2b
- FOS v6.2.2c

The defects fixed in this release are listed in the defect tables provided at the end of this document.

Resolution of Important Defects

FOS v6.2.2d includes a fixes for the following important defects:

Defect 307559: The admin password for most Brocade 4G and 8G blades, switches and embedded blades will reset to default after upgrading from FOS v6.1.x to FOS v6.2.2c.

Defect 319613: While upgrading from FOS v6.1.x to FOS v6.2.2c Access Gateway (AG) enabled switches panic. This only affects AG enabled switches upgraded to FOS v6.2.2c. This defect does not apply to AG enabled switches upgraded from FOS v6.1.x to any other FOS v6.2.x release. In addition, this defect does not apply to AG enabled switches upgraded from FOS v6.2.x to FOS v6.3.x.

Other Important Changes

Port Beaconsing Support

A new CLI command has been added that allows individual ports to be identified by enabling a special LED illumination behavior.

NAME

portBeacon - Sets port beaconsing mode on or off

SYNOPSIS

portbeacon --mode [slot]/port

DESCRIPTION

Use this command enable or disable port beaconsing mode on a specified port. This command works on 4G and above FC ports excludes the Brocade FC10-6 blade.

When beaconsing mode is enabled on a port, the port LED flashes amber and green for 2.5 seconds in an alternating pattern. The beaconsing mode continues until you turn it off. Beaconsing mode is useful if you are trying to locate a specific port.

Beaconsing mode takes over the port LEDs. The normal flashing LED pattern associated with an active, faulty, or disabled port is suppressed, and only the beaconsing pattern is shown. Other commands are still executable and functional. However, if diagnostic frame-based tests such as portLoopbackTest are executed, the diagnostic LED pattern is interleaved with the port beaconsing pattern.

OPERANDS

mode --enable turns beaconing mode ON. --disable turns beaconing mode OFF.

EXAMPLES

To turn beaconing mode ON: switch:admin> portbeacon --enable 1/0

To turn beaconing mode OFF: switch:admin> portbeacon --disable 2/1

Diagnostics Restrictions

The following command restrictions now apply for porttest and spinfab diagnostics:

The *porttest* and *spinfab* commands are not supported on the following ports in FOS v6.2.2 and prior releases:

- Ports connected to shared-area ports (port 16 to port 47 on 48-port blades).
- Ports connected to ports with area-swapped.
- Inter-chassis Links (ICLs).
- Slave ports in trunk groups.
- Long Distance ports.
- If Virtual Fabrics is enabled, ports connected to a Logical Switch and Base Switch. (v6.2.x only)

Supported Switches

Fabric OS v6.2.2 supports the Brocade 200E, 300, 4012, 4016, 4018, 4020, 4024, 4424, 5410, 5480, 5424, 4100, 4900, 5000, 5100, 5300, 7500, 7600, 48000, Brocade Encryption Switch (BES), VA-40FC, DCX and DCX-4S. All supported products are qualified for Native Connectivity in interopmode 2 and 3 for deployment in M-EOS fabrics with the exception of the Brocade 4100.

Access Gateway is also supported by Fabric OS v6.2.2, and is supported on the following switches: the Brocade 200E, 300, 5100, VA-40FC*, 4012, 4016, 4018, 4020, 4024, 4424, 5480 and 5424.

*Ships in Access Gateway mode

Standards Compliance

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

Technical Support

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

1. General Information

- Technical Support contract number, if applicable
- Switch model
- Switch operating system version
- Error numbers and messages received
- **supportSave** command output

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

2. Switch Serial Number

The switch serial number is provided on the serial number label, as shown here.



The serial number label is located as follows:

- Brocade 200E—On the non-port side of the chassis
- Brocade 4100, 4900, and 7500/7500E—On the switch ID pull-out tab located inside the chassis on the port side on the left
- Brocade Encryption Switch, VA-40FC, 300, 5000, 5100, and 5300—On the switch ID pull-out tab located on the bottom of the port side of the switch
- Brocade 7600—On the bottom of the chassis
- Brocade 48000 —Inside the chassis next to the power supply bays
- Brocade DCX—Bottom right of the port side
- Brocade DCX-4S—Back, upper left under the power supply

3. World Wide Name (WWN)

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

If you cannot use the **wwn** command because the switch is inoperable, you can get the primary WWN from the same place as the serial number, except for the Brocade DCX/DCX-4S. For the Brocade DCX, access the numbers on the WWN cards by removing the Brocade logo plate at the top of the non-port side. The WWN is printed on the LED side of both cards.

4. License Identifier (License ID)

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

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

FOS Migration Considerations

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

TSBs - Critical Issues to Consider Prior to Installing This FOS Release

Technical Support Bulletins (TSBs) are produced to provide detailed information about high priority defects or issues present in FOS releases. The following sections specify all current TSBs that have been identified as being a risk to or resolved with this specific version of Fabric OS. Please review carefully and refer to the complete TSB for relevant issues prior to migrating to this version of code. TSBs can be found at <http://my.brocade.com> under the “Technical Documentation” section of the “documentation” tab.

TSB Issues Outstanding in FOS v6.2.2d

Issues in the following list of TSBs are known to be potential risks to using FOS v6.2.2d and should be considered carefully prior to using this release of code:

TSB	Summary
2009-069-A (Defect 265697)	FICON environments that have configured ASM Mode (i.e. Active=Saved Mode, for the CUP port connectivity configuration parameter in the PDCM/allow/prohibit matrix), could experience an unexpected change to port block states after a reboot.
2009-074-A (No Defect Reference)	Fabrics that are configured with EX_Ports in a multi-switch backbone fabric utilizing edge-to-edge routing could experience a traffic impact due to a loss of credit across the EX_Port link. The fix for this issue is part of an architectural change that was included in Brocade Fabric OS v6.3.0 and above.

TSB Issues Resolved in FOS v6.2.2d

The following table is intended to provide a list of known risks associated with FOS v6.2.2x risks that were resolved in FOS v6.2.2d. Note that the issues addressed in this list of TSBs may also be resolved in other FOS releases including prior v6.2.2x patches. Refer to the specific Release Notes for each release to verify resolution details and applicability.

TSB	Summary
2010-075-A (Defect 270261)	When upgrading a DCX, DCX-4S or Brocade 5300 from Fabric OS v6.2.2a or lower to FOS v6.3.1 or 6.3.0c or lower, the Compact Flash (CF) may report an access error. This will cause a reboot of the affected CP within the DCX/DCX-4S or Brocade 5300 to fail.
2010-080-A (Defect 285644)	A Brocade 200E, 4012, 4016, 4018, 4020, 4024, 4424, 4100, 4900, 5000, 7500 or 7600 switch or the standby CP within a Brocade 48000 director may remain in a perpetual reboot state when upgrading from Fabric OS version v6.1.x to Fabric OS version v6.2.x. FOS v6.2.2c and later prevents upgrades when this condition may occur until the configuration is corrected.
2010-081-A (Defect 298774)	After a non-disruptive upgrade to Fabric OS v6.2.x or higher, CDR-1003 error messages may be posted during a supportSave operation. These CDR-1003 messages are reclassified as warnings in FOS v6.2.2c and v6.3.1b This may occur on a Brocade 200E, 4012, 4016, 4018, 4020, 4024, 4424, 4100, 4900, 5000, 7500, 7600 or 48000.

Recommended Migration Paths to FOS v6.2.2d

Migrating from FOS v6.1.x

For units currently operating at FOS v6.1.x, there are no special steps required to migrate to FOS v6.2.2d.

FOS Upgrades and Downgrades

Upgrading to Fabric OS v6.2.2 is only allowed from Fabric OS v6.1.0 or later. This policy to support only one-level migration, which began with FOS v6.0.0, provides more reliable and robust migrations for customers. By having fewer major changes in internal databases, configurations, and subsystems, the system is able to perform the upgrade more efficiently, taking less time and ensuring a truly seamless and non-disruptive process for the fabric. The one-release migration policy also reduces the large number of upgrade/downgrade permutations that must be tested, allowing Brocade to spend more effort ensuring the supported migration paths are thoroughly and completely verified.

All products supported by Fabric OS v6.1.0, v6.1.1, or v6.2.x can be upgraded to Fabric OS v6.2.2. The following is a list of products that can be upgraded to Fabric OS v6.2.2:

- 300, 4012, 4016, 4018, 4020, 4024, 4424, 5424, 5410, 5480, 4100, 4900, 5000, 5100, 5300, 7500, 7600, 200E, 48000, BES, VA-40FC, DCX, and DCX-4S.

The DCX-4S may not be downgraded below FOS v6.2.0.

The VA-40FC may only be downgraded to FOS v6.2.1_vfc.

All downgrades from FOS v6.2.2 to FOS v6.1.x require a restart and are disruptive to traffic. Platforms supporting Virtual Fabrics must have the **Feature** disabled prior to downgrading below v6.2.0.

When downgrading from FOS v6.2.x to v6.1, configuration parameters such as switch name in FOSv6.2 are not persisted.

To ensure non-disruptive Hot Code Load (HCL), neighbor switches should be operating with FOS v6.2.x prior to loading FOS v6.2.2 on the following platforms:

- 4012, 4016, 4018, 4020, 4024, 4100, 200E

When upgrading to FOS v6.2.x from FOS v6.1.0g or earlier, the CPs do not fully synchronize until both the new active and new standby CPs are running v6.2.x. This is normal behavior and the firmware upgrade is still not disruptive.

FOS does not support concurrent FC Routing (EX_Ports) and TopTalkers **Features**. Upgrading to FOS v6.2.x requires that one of these **Features** be disabled first.

The Brocade Encryption Switch and DCX with one or more FS8-18 blades may not be downgraded below FOS v6.1.1_enc.

The Brocade Encryption Switch and DCX with one or more FS8-18 blades may not be downgraded below FOS v6.2.0 if HP SKM Key Vault is configured. Doing so will result in loss of encryption services in HP SKM environments.

When Tape Encryption is configured on BES or DCX/DCX-4S with FS8-18 blade, downgrading to v6.1.1_enc will result in loss of Tape Encryption Services.

If there are multiple node EGs (encryption groups) in a fabric, please complete firmwaredownload on one node at a time before downloading on another node.

On the Brocade 300, M5424, 5470 and 5480, do not use -n option for downgrading from FOS v6.2.x to prior versions. If -n option is used the firmware versions may get out of synchronization and can cause rolling kernel panics and switch is unrecoverable. The switch will have to be returned via the RMA process.

Switches using Integrated Routing and FOS v6.2.2 may NOT be upgraded to FOS v6.3.0, 6.3.0a, or 6.3.0b.

Important Notes

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

FM Compatibility

Fabric Manager v5.x software and older versions are not compatible with versions of FOS v6.1.0x patches and higher software. For Manageability support, customers are encouraged to upgrade to DCFM 10.3.x software.

DCFM Compatibility

FOS v6.2.2 is fully compatible with Brocade's Data Center Fabric Manager (DCFM) v10.1.x management software. DCFM is a comprehensive SAN management application that enables end-to-end management of Brocade Data Center Fabrics. It is the next-generation product and the successor to existing Brocade management products, including Brocade Fabric Manager (FM) and Brocade Enterprise Fabric Connectivity Manager (EFCM).

DCFM is available in two versions: *DCFM Professional*, an application bundled with Brocade switches that is ideally suited for small and medium size businesses that need a light-weight management product to manage their smaller fabrics (one physical fabric at a time, up to 1,000 ports); and *DCFM Enterprise*, that is designed for enterprise-class customers and showcases unparalleled performance and scalability (24 physical fabrics, up to 9,000 switch ports). DCFM Enterprise configures and manages Brocade DCX Backbones, along with Brocade directors, routers, switches, and HBAs. It also supports Brocade fabric-based encryption capabilities for data-at-rest. Existing EFCM v9.6 and higher and FM v5.4 and higher customers are provided an easy migration path to DCFM Enterprise.

EFCM Compatibility

EFCM v9.7.4 is the minimum version of Brocade management software that should be used to manage Brocade switches deployed with FOS v6.2.2. EFCM v9.7.4 cannot manage the DCX-4S or platforms with the Virtual Fabrics **Feature** enabled. For more information on migrating from previous versions of EFCM to EFCM v9.7.4, refer to the EFCM v9.7.4 Release Notes documentation.

Fabric OS Compatibility

The following table lists the earliest versions of Brocade software supported in this release, that is, the *earliest* supported software versions that interoperate. Brocade recommends using the *latest* software versions to get the greatest benefit from the SAN.

When using the new Virtual Fabrics **Feature**, it is highly recommended that all switches participating in a fabric with a logical switch use the latest firmware available for those switches. All switches must be operating at minimum firmware levels noted in the FOS Interoperability table below.

When using any of Brocade's encryption platforms (Brocade Encryption Switch or Brocade FS8-18 blade in a DCX or DCX-4S) it is required that switches attached to hosts and targets or those that are part of the encryption flow be operating with minimum specified levels:

- 2Gb/4Gb platforms must operate with FOS v5.3.1b or later
- 4Gb/8Gb platforms must operate with FOS v6.1.0e, v6.1.1 or later (4Gb platforms may use v5.3.1b but are recommended to use the v6.x versions)

- M-EOS platforms must operate with M-EOS v9.8.0 or later for McDATA Fabric Mode (interopmode 2) or M-EOS 9.9.0 or later for Open Fabric Mode environments (interopmode 3)

For a list of the effective end-of-life dates for all versions of Fabric OS, visit the following Brocade Web site:

http://www.brocade.com/support/end_of_life.jsp

Supported Products and FOS Interoperability	
Brocade 2000-series switches	Not supported, end of support (December 2007)
Brocade 3000, 3200, 3800	v3.2.1c ^{1 6 9}
Silkworm 3014, 3016, 3250, 3850 and Brocade 3900, 4100, 4900, 24000, 7500, 7500E, 7600, 5000, 200E, 48000	v5.3.1b (2G and 4G platforms) and v6.1.0e and later ⁵ (4G platforms only)
Silkworm 12000	v5.0.x ^{6 9}
Brocade 4012, 4016, 4018, 4020, 4024, 4424	v5.3.1b, v6.1.0e and later ⁵
Brocade 5410, 5480, 5424	v6.2.0
Brocade VA-40FC	v6.2.1_vfc or v6.2.2
Brocade DCX, 300, 5100, 5300	v6.1.0e and later ⁵
Brocade DCX-4S	v6.2.0
Brocade DCX with FS8-18 blade(s), Brocade Encryption Switch	v6.1.1_enc
Secure Fabric OS (on any model)	Not Supported
Mi10k, M6140, ED-6064, ES-3232, ES-4300, ES-4400, ES-4500, ES-4700 (McDATA Fabric Mode and Open Fabric Mode) ^{2 4}	M-EOS v9.7.2 or later ³
McDATA ED-5000 32-port FC director	Not Supported
Multi-Protocol Router interop	
Brocade 7420	XPath v7.4.1 ⁸
Brocade 7500 and FR4-18i blade	v5.1.0 and higher ⁸
McDATA SANRouters 1620 and 2640	M-EOSi v5.1.2 or v5.3.0 ^{7 8 10}

Table Notes:

¹ All zoning and fabric operations performed in a fabric with products running older versions of FOS should be done via interfaces to products running the latest version of FOS. This is particularly important for Brocade 3XXX series switches that do not support zoning configuration for newer products.

²Other M-EOS models may participate in a fabric with FOS v6.2.2, but may not be directly attached via E_Port to any products running FOS v6.2.2. The McDATA ED-5000 director may not participate in a mixed M-EOS/FOS fabric.

³It is highly recommended that M-EOS products operate with the most recent version of M-EOS released and supported for interoperability. M-EOS 9.7.2 is the minimum version of firmware that is fully qualified to interoperate with FOS 6.2.0 or later. For support of frame redirection in McDATA Fabric Mode (interopmode 2), M-series products must use M-EOS v9.8 or later. For support of frame redirection in McDATA Open Fabric Mode (interopmode 3), M-series products must use M-EOS v9.9 or later. Only the ES-

4400, ES-4700, M6140, and Mi10k may have devices directly attached that are having data encrypted or unencrypted.

⁴When routing to an M-EOS edge fabric using frame redirection, the M-EOS fabric must have a FOS-based product in order to configure the frame redirection zone information in the edge fabric.

⁵When directly attached to a Host or Target that is part of an encryption flow.

⁶Products operating with FOS versions less than v5.3.1b or v6.1.0e may not participate in a logical fabric that is using XISLs (in the base fabric).

⁷For Multi-Protocol router interop, FOS-based switches deployed in M-EOS fabrics should not be directly connected (via ISLs) to the M1620 / M2640 products, but rather attached to other M-EOSc/n switches and directors (M6140s, 4700s, Mi10ks, etc) running in McDATA Fabric Mode/Interopmode 2. McDATA Open Fabric Mode /Interopmode 3 is supported only with M-EOSi v5.3.

⁸McDATA SANRouters 1620 and 2640 should not be used with XPath or FOS-based routing (FCR) for connections to the same edge fabric.

⁹These platforms may not be directly attached to hosts or targets for encryption flows.

¹⁰M-series SANRouters (1620/2640) may not participate in a fabric that has encryption services from a Brocade Encryption Switch or FS8-18 Encryption blade.

Fabric OS v6.2.2 software is fully qualified and supports the blades for the 48000 platform noted in the following table:

48000 Blade Support Matrix	
Port blade 16, 32 and 48-port 4Gbit blades (FC4-16, FC4-32, FC4-48), 16, 32 and 48-port 8Gbit blade (FC8-16, FC8-32, FC8-48), and the 6-port 10G FC blade (FC10-6)	Supported with any mix and up to 8 of each. No restrictions around intermix. The 48000 must run Fabric OS v6.0 or later to support the FC8-16 port blade and Fabric OS v6.1 or later to support the FC8-32 and FC8-48 port blades.
Intelligent blade	Up to a total of 4 Intelligent blades (includes iSCSI, FCIP/FCR and Application blade), FC4-16IP, FR4-18i, and FA4-18 respectively. See below for intermix limitations, exceptions, and a max of each blade.
iSCSI blade (FC4-16IP)	Up to a maximum of 4 blades of this type
FC-IP/FC Router blade (FR4-18i)	Up to a maximum of 2 blades of this type. This can be extended under special circumstances but must be approved by Brocade's Product Team. Up to 8 FR4-18i blades can be installed if they are used only for FC FastWrite or FCIP without routing.
Virtualization/Application Blade (FA4-18)	Up to a maximum of 2 blades of this type.

Fabric OS v6.2.2 software is fully qualified and supports the blades for the DCX/DCX-4S noted in the following table:

DCX/DCX-4S Blade Support Matrix	
16-, 32- and 48-port 8Gbit port blades (FC8-16, FC8-32, FC8-48) and the 6-port 10G FC blade (FC10-6)	Supported with FOS v6.0 and above with any mix and up to 8/4 of each. No restrictions around intermix.
Intelligent blade	Up to a total of 8/4 intelligent blades. See below for maximum supported limits of each blade.
FC-IP/FC Router blade (FR4-18i)	Up to a maximum of 4 blades of this type. This can be extended under special circumstances, but must be approved by Brocade's Product Team. Up to 8 FR4-18i blades can be installed in a DCX if they are used only for FC FastWrite or FCIP without routing.
Virtualization/Application Blade (FA4-18)	Up to a maximum of 4 blades of this type.
Encryption Blade (FS8-18)	Up to a maximum of 4 blades of this type.

Note: the iSCSI FC4-16IP blade is not qualified for the DCX/DCX-4S.

Power Supply Requirements for Blades in 48k and DCX/DCX-4S Chassis					
Blades	Type of Blade	48K @200-240 VAC (Redundant configurations)	DCX/DCX-4S @110 VAC (Redundant configurations)	DCX/DCX-4S @200-240 VAC (Redundant configurations)	Comments
FC 4-16, FC 4-32, FC 4-48, FC 8-16, FC 8-32	Port Blade	2 Power Supplies	2 Power Supplies	2 Power Supplies	Distribute the Power Supplies evenly to 2 different AC connections for redundancy.
FC10-6, FC 8-48	Port Blade	4 Power Supplies	Not Supported	2 Power Supplies	
FR4-18i, FC4-16IP*, FA4-18	Intelligent Blade	4 Power Supplies	Not Supported	2 Power Supplies	
FS8-18	Intelligent Blade	NA	Not Supported	DCX: 2 or 4 Power Supplies DCX-4S: 2 Power Supplies	- For DCX with three or more FS8-18 Blades, (2+2) 220VAC Power Supplies are required for redundancy. - For DCX with one or two FS8-18 Blades, (2) 220VAC Power Supplies are required for redundancy. - For DCX-4S, (2) 220VAC

Power Supply Requirements for Blades in 48k and DCX/DCX-4S Chassis					
Blades	Type of Blade	48K @200-240 VAC (Redundant configurations)	DCX/DCX-4S @110 VAC (Redundant configurations)	DCX/DCX-4S @200-240 VAC (Redundant configurations)	Comments
					Power Supplies provide redundant configuration with any number of FS8-18 Blades.

*Note: the iSCSI FC4-16IP blade is not qualified for the DCX/DCX-4S.

Secure Fabric OS

Secure Fabric OS (SFOS) is not compatible with FOS v6.2.2. Customers that wish to use the security **Features** available in SFOS should upgrade to FOS v5.3 or later version, which includes all SFOS **Features** as part of the base FOS. For environments with SFOS installed on switches that cannot be upgraded to FOS v5.3 or later version, FC routing can be used to interoperate with FOS v6.2.2.

FOS Feature Compatibility in Native Connectivity Modes

Some FOS **Features** are not fully supported when operating in the native connectivity modes for deployment with M-EOS based products. All Brocade models that are supported by Fabric OS v6.2.2 support both intermodal 2 and 3 with the exception of the Brocade 4100.

The following table specifies the support of various FOS **Features** when operating in either interopmode 2 (McDATA Fabric Mode) or interopmode 3 (Open Fabric Mode) with Fabric OS v6.2.2.

FOS Features (supported in interopmode 0)	FOS v6.2.2	
IM = Interopmode	IM 2	IM 3
L2 FOS Hot Code Load	Yes	Yes
FOS Hot Code Load with FCR	Yes	Yes
Zone Activation Support	Yes	Yes ¹¹
Traffic Isolation Zones ¹	Yes	No
Frame Redirection (devices attached to FOS) ¹	Yes	Yes ¹¹
Frame Redirection (devices attached to M-EOS) ¹	Yes	Yes ¹¹
Frame Redirection over FCR ¹⁰	Yes	Yes ¹¹
FCR Fabric Binding (route to M-EOS fabric with Fabric binding) ⁹	Yes	Yes
L2 Fabric Binding	Yes	No*
DCC policies	No	No
SCC policies	Yes ⁴	No*
E/EX_Port Authentication	Yes	Yes
ISL Trunking (frame-level)	Yes ²	Yes ²
Dynamic Path Selection (DPS, exchange based routing)	Yes ³	Yes ³
Dynamic Load Sharing (DLS, port based routing)	Yes	Yes
Virtual Channels (VC RDY)	Yes ²	Yes ²
FICON Management Server (Cascading)	Yes	No*
FICON MIHPTO	Yes	No*
Full Scalability (to maximum M-EOS fabric limits)	Yes	Yes
Adaptive Networking: QoS	No	No
Adaptive Networking: Ingress Rate Limiting	No*	No*

FOS Features (supported in interopmode 0)	FOS v6.2.2	
IM = Interopmode	IM 2	IM 3
Advanced Performance Monitoring (APM)	No*	No*
APM: TopTalkers	No*	No*
Admin Domains	No	No
Secure Fabric OS ⁵	N/A	N/A
Fabric Watch	Yes	Yes
Ports on Demand (POD)	Yes	Yes
NPIV	Yes	Yes
Timer Server function (NTP)	No	No
Open E_Port ⁶	N/A	N/A
Broadcast Zoning	No	No
FDMI	No	No
Remote Switch	No	No
Port Mirroring	Yes	Yes
Extended Fabrics	Yes	Yes ⁷
Alias Server	No	No
Platform Service	No	No
FCIP (VE_Ports)	Yes	Yes
IPFC (IP over FC)	Yes ⁸	Yes ⁸
M-EOS ALPA 0x13 configuration	Yes	Yes
VE to VEX Port	Yes	Yes
Integrated Routing ⁹	Yes ⁹	Yes
Domain Offset Support	No	No
239 Domain Support (available on Mi10k only)	N/A	Yes ¹²
Masterless F_PORT Trunking (AG connect to FOS switches only)	Yes	Yes
FC10-6-to-FC10-6 ISL	Yes	Yes
RASLOG Events on duplicate WWNs	Yes	Yes
Virtual Fabrics	Yes	Yes
Logical Fabric using LISLs (XISLs in Base Fabric)	No	No

* indicates the **Feature** is available but not officially tested or supported

- Requires M-EOS 9.7 or later for redirection between devices attached to FOS switches, M-EOS 9.8 for redirection between devices attached to M-EOS switches, M-EOS 9.9 for use in McDATA Open Fabric Mode. Supported M-EOS platforms include M4400, M4700, M6140, and Mi10k.
- Only allowed between FOS-based switches
- DPS is supported outbound from FOS-based switches. (M-EOS can provide reciprocal load balancing using OpenTrunking).
- SCC policies only supported in conjunction with L2 Fabric Binding support
- Not supported in FOS 6.0 or later
- Mode 3 only qualified with M-EOS switches
- Not on FCR
- Only supported locally within the FOS switch
- All routers (EX_Ports) must reside in a backbone fabric running in interopmode 0 only. Only edge fabrics with devices imported to the backbone fabric or other edge fabrics may be operating in IM2 or IM3.
- To support Frame Redirection to an edge M-EOS fabric, there must be at least one FOS switch in the edge fabric to configure Frame Redirection Zones.
- Only Frame Redirection Zones may be configured on FOS platforms and sent to fabrics operating in McDATA Open Fabric Mode (interopmode 3). M-EOS 9.9 is required to support FR Zones in McDATA Open Fabric Mode.
- Supported via FC Routing only. All routers in the backbone must be running FOS v6.2.0.

Note: FICON Cascaded CUP with M-EOS and FOS qualified only on select platforms.

SAS Version Requirements for FA4-18 and Brocade 7600:

SAS v3.3.1 is the supported SAS version for FOS v6.2.2.

- When upgrading from FOS v6.1 to v6.2.2 and SAS 3.2.0 to SAS 3.3.1, first upgrade FOS v6.1 to v6.2.2 and then upgrade SAS from 3.2.0 to 3.3.1.
- When downgrading from FOS v6.2.2 to v6.1 and SAS 3.3.1 to SAS 3.2.0, first downgrade SAS from 3.3.1 to 3.2.0 and then downgrade FOS from v6.2.2 to v6.1.

Scalability

All scalability limits are subject to change. Limits may be increased once further testing has been completed, even after the release of Fabric OS. For current scalability limits for Fabric OS, refer to the *Brocade Scalability Guidelines* document, available under the *Technology and Architecture Resources* section at <http://www.brocade.com/compatibility>

FICON Support

The DCX-4S is not supported for FICON Cascading in interopmode 2 or 3 for use in mixed fabrics with M-EOS platforms.

Other Important Notes and Recommendations

Virtual Fabrics:

- On Virtual Fabrics capable platforms, the Virtual Fabrics **Feature** must be enabled after upgrading to FOSv6.2.x from v6.1.x in order to utilize the related capabilities including Logical Switches and Logical Fabrics. On units that ship with FOS v6.2.0 or later installed, the Virtual Fabrics **Feature** is enabled by default on capable platforms.
- When creating Logical Fabrics that include switches that are not Virtual Fabrics capable, it is possible to have two Logical Switches with different FIDs in the same fabric. Extra caution should be used to verify the FIDs match for all switches in the same Logical Fabric.
- The aptpolicy can be configured per logical switch. The Admin Guide indicates it is a chassis level setting.
- In order to support non-disruptive Hot Code Load on a Brocade 5100 or VA-40FC with VF enabled, the total zoning DB size for the entire chassis should not exceed 1MB.
- A switch with Virtual Fabrics enabled may not use Port Mirroring or participate in a fabric that is using IP Filter or Password Database distribution or Administrative Domains. The Virtual Fabrics **Feature** must be disabled prior to deploying in a fabric using these **Features**.

Licensing Behavior:

- When operating a switch with Fabric OS v6.2.2, some licenses may display as “Unknown.” This is due to changes in licensing requirements for some **Features** that no longer require a license key that may still be installed on a switch.

Encryption Behavior:

- Brocade encryption devices can be configured for either disk or tape operation. The ability to configure multiple Crypto-Target Containers defining different media types on a single encryption engine (Brocade Encryption Switch or FS8-18 Blade) is not supported. FS8-18 Encryption Blades can be configured to support different media types within a common DCX/DCX-4S chassis.
- When using Brocade Native Mode, in LKM installations, manual rekey is highly recommended. If auto rekey is desired, the key expiry date should be configured only when the LUN is created. Never modify

the expiry date after configuring a LUN. If you modify the expiry time, after configuring the LUN the expiration date will not update properly.

- SKM is supported with Multiple Nodes and Dual SKM Key Vaults. Two-way certificate exchange is supported. Please refer to the Encryption Admin Guide for configuration information.
- The Brocade Encryption Switch and FS8-18 blade support registration of only one HPSKM Key Vault for FOS v6.2.2. Multiple HPSKMs Key Vaults can be clustered at the SKM server level. Registering of a second SKM key vault is not blocked. When the registered key vault connection goes down or the registered key vault is down, users are expected to either correct the connection with Key Vault or replace the failed SKM and re-register (deregister failed SKM entry and register the new SKM entry) on the Brocade Encryption Switch or FS8-18 blade. Users are expected to make sure that the replaced (new) SKM key vault is in sync with the rest of the SKM units in Cluster in terms of Keys Database (user manually syncs the Key Database from existing SKM Key Vault in Cluster to new or replacing SKM Key Vault using SKM Admin Guide Provided Key Synchronization methods).
- When the tape key expires in the middle of write operation on the tape, the key is used to append the data on the tape media. When the backup application rewinds the media and starts writing to Block-0 again and if the key is expired then a new key is created and used henceforth. The expired key thereafter is marked as read only and used only for restore of data from previously encrypted tapes.
- For dual LKM configuration on the Brocade Encryption Switch (BES) or a DCX/DCX-4S with FS8-18 blades as the primary and secondary key vaults, these LKM appliances must NOT be clustered (linked).
- The RKM Appliance A1.6, SW v2.2 is supported. The procedure for setting up the RKM Appliance with BES or a DCX/DCX-4S with FS8-18 blades is located in the Encryption Admin Guide.
- With Windows and Veritas Volume Manager/Veritas Dynamic Multipathing, when LUN sizes less than 400MB are presented to BES for encryption, a host panic may occur and this configuration is not supported for 6.2.2 release.
- HCL from FOS v6.1.1_enc to v6.2.2 is supported. Cryptographic operations and I/O will be disrupted but other layer 2 traffic will not.
- Relative to the BES and a DCX with FS8-18, all nodes in the Encryption Group must be at the same firmware level of FOS v6.2.2 before starting a rekey or First Time Encryption operation. Make sure that existing rekey or First Time Encryption operations complete before upgrading any of the encryption products in the Encryption Group. Also, make sure that the upgrade of all nodes in the Encryption Group to FOS v6.2.2 completes before starting a rekey or First Time Encryption operation.
- To clean up the stale rekey information for the LUN, follow one of the following two methods:

Method 1:

1. First, modify the LUN policy from “encrypt” to “cleartext” and commit. The LUN will become disabled.
2. Enable the LUN using “cryptocfg --enable -LUN”. Modify the LUN policy from “clear-text” to “encrypt” with “enable_encexistingdata” to enable the first time encryption and do commit. This will clear the stale rekey metadata on the LUN and the LUN can be used again for encryption.

Method 2:

1. Remove the LUN from Crypto Target Container and commit.
2. Add the LUN back to the Crypto Target Container with LUN State=“clear-text”, policy=“encrypt” and “enable_encexistingdata” set for enabling the First Time Encryption and commit. This will clear the stale rekey metadata on the LUN and the LUN can be used again for encryption

- A new LUN state is being introduced: **"Disabled (Key not in sync)."** This new state indicates re-keying was started on a remote EE but the local EE is not capable of starting re-key because it does not have the KeyID which was used by the remote EE in re-keying (i.e. newest key returned from key vault does not match with the KeyID used by remote EE). User needs to use "cryptocfg --discoverLUN <Container Name>" interface to re-enable the LUN only after the keys are synced between two key vaults properly.
- Both VMware and clustering technologies utilize SCSI reservations to control host IO access to LUNs. When BES/FS8-18 is performing a rekeying operation, for the first time encryption or otherwise, it accommodates the use of this methodology. In deployments that have multiple physical initiators accessing a target/LUN from an EE, FOS 6.2.2 does not have the ability to failover FTE/rekey operations within the EE.

Therefore, during FTE/Rekey operations in these environments, only one physical initiator can be allowed to access the target/LUN combination – this for all EEs exposing the LUN.

If only one initiator has access to a Target/LUN on a particular EE, then no configuration modification is required during FTE/Rekey operations.

- Direct FICON device connectivity is not supported for the Brocade Encryption Switch (BES) or the FS8-18 for front end User Ports. In addition, FICON devices as part of Encryption or Clear-Text flows are not supported which means FICON devices cannot be configured as Crypto Target Containers on BES or FS8-18.
- Ensure that all encryption engines in the HA cluster (HAC), Data Encryption Key (DEK) cluster, or encryption group are online before invoking or starting rekey operations on LUN(s). Also ensure that all target paths for a LUN are online before invoking or starting rekey operations on LUN(s).

Frame Redirection

- The following restriction is removed in FOS v6.2.1.

Frame Redirection zoning is not allowed with Default Zoning ("all access" in IM0 and default zone in IM2) in FOS v6.2.0. This was allowed in prior releases. There is no SW enforcement to block the upgrade.

Adaptive Networking/Flow-Based QoS Prioritization:

- When using QoS in a fabric with 4G ports or switches, FOS v6.0 or later must be installed on all products in order to pass QoS info. E_Ports from the DCX to other switches must come up AFTER FOS v6.0 is running on those switches.
- Flow based QoS is NOT supported on FC8 blades in the Brocade 48000.
- Any products that are not capable of operating with FOS 6.0 may NOT exist in a fabric with Flow based QoS. Major problems will occur if previous generation 2G products exist in the fabric.
- For the Brocade 4100 and 5000, if all of the ports are E_Ports and the switch is upgraded to Fabric OS v6.2.2, the buffers on the E_Ports are changed to utilize the QoS model. If the switch is rebooted, 28 of 32 ports will come up in QoS mode; the last four ports will come up in buffer-limited mode. Workarounds include disabling long distance configuration for these ports or explicitly disabling QoS on other ports, freeing up buffers for the last four ports.
- The fix for the defect 250438 included in this release changes the default behavior of the Adaptive Networking QoS **Feature** as follows upon firmware upgrade:
 - The default QoS behavior is changed to be "disabled" on 4G platforms.
 - The default QoS behavior is changed to be "disabled" on the "Extended Fabrics E-ports" on both 4G and 8G platforms.

This fix solves the following unexpected behaviors that occurred when Adaptive Networking QoS **Feature** was enabled by default in the previous FOS releases:

- Splitting of a single trunk group into multiple trunk groups upon port toggle, since the toggled ports come online with QoS enabled while the remaining ports in the trunk group have QoS disabled.
- Fewer buffer credits being made available to normal E-ports after a port toggle even when QoS is not being utilized.
- Unexpected change to fill word configuration on an Extended Fabrics E-port after a port toggle.
 - If an Extended Fabrics E-port is originally using IDLE primitives as fill words, and if that port toggles, the fill word configuration will be changed to use ARB primitives.

Note:

After upgrading to this firmware release, if users want to enable Adaptive Networking QoS **Feature** on 4G platforms, and on Extended Fabrics E-ports on both 4G and 8G platforms, they must do so explicitly through the available user interfaces.

FCR

- All FCR switches need to be running FOS v6.2.1 in order to support M-EOS 239 Domain Mode on the Mi10K

FCR Backbone Fabric ID changes:

- With FC8 blades, the switch must be disabled to change the backbone fabric ID
- With routing and dual backbone fabrics, the backbone fabric ID must be changed to keep the IDs unique.

Traffic Isolation over FCR

- All switches and Fibre Channel Routers both in edge and backbone fabrics must be running FOS v6.1.0 or later in order to support this **Feature**.
- In order for Traffic Isolation over FCR to function properly, the associated TI zones in each fabric (edge and backbone) need to have failover ENABLED.

Integrated Routing

- To allow Hot Code Load on a Brocade 5100 or VA-40FC when using Integrated Routing, the edge switch connected to the 5100 must be running Fabric OS v6.1 or later code.
- Integrated Routing EX_Ports are only supported in the base switch on a switch with VF enabled.
- Integrated Routing and TopTalkers are not concurrently supported in FOS v6.2. To use Integrated Routing, first disable TopTalkers prior to configuring EX_Ports.

Access Gateway

- When in Access Gateway mode, the Automatic Port Configuration policy may not work when attached to M-EOS switches. M-EOS ports should be set to G_Port to prevent problems with port type discovery.

FCS Automatic Distribution

- When using the FCS Automatic Distribution **Feature** in Fabric OS v6.0 or later, all switches in the fabric must be running FOS v6.0 or later. Only manual distribution can be used if any switches are running FOS v5.x or earlier.
- FOS v6.0 or later will only allow FCS automatic distribution when in strict mode, requiring only switches with FOS v6.0 or later.

FIPS

- FIPS mode should not be enabled on the Brocade 200E. If FIPS is enabled, the 200E will not boot.

LDAP

- When using LDAP, downgrades from FOS v6.2.2 to prior releases requires user intervention. Authentication must be set to local and back to LDAP in order to continue using LDAP authentication.

FCAP

- Due to limitations with the certificates, FCAP authentication cannot be supported on user defined logical switches. FCAP will continue to function with existing certificates for non-VF and the default logical switch of VF enabled switches. (Note: authutil is not restricted from other logical switches, at this time, so this can still be enabled on unsupported LS.)
- pkicert (1.06) utility may cause evm errors, so each new switch should be isolated from fabric, in non-vf mode, to install new certificates.
- For FIPS mode, certificates need to be installed prior to FIPS activation.

FICON

- For the DCX, FICON CUP is not allowed with a 48-port blade in the Default Logical Switch. All ports on a 48-port blade must be assigned to a user-defined Logical Switch to use them in a FICON CUP enabled switch.

FL_Port (Loop) Support

- The FC8-48 blade now supports attachment of loop devices in the DCX and DCX-4S.
- Virtual Fabrics must be enabled on the chassis and loop devices may only be attached to ports on a 48-port blade assigned to a non-Default Logical Switch operating with the default 10-bit addressing mode (they may not be in the default Logical Switch).
- A maximum of 144 ports may be used for connectivity to loop devices in a single Logical Switch within a chassis.
- Loop devices continue to be supported when attached to ports on the FC8-16, FC8-32, FC4-16 and FC4-32 blades with no new restrictions.

Port Mirroring

- On the Brocade 5300, the port mirroring **Feature** has a limitation where all port mirror resources must stay within the same ASIC port group. The resources are the configure mirror port, Source Device, and Destination Device or ISL, if the Destination Device is located on another switch. The ASIC port groups are 0-15, 16-31, 32-47, 48-63, and 64-79. The routes will be broken if the port mirror resources are spread across multiple port groups.
- Port Mirroring is not supported on a switch with the Virtual Fabrics **Feature** enabled.

10G Interoperability

- 10G interop between FC10-6 and McDATA blades is not supported due to a HW limitation, however the FC10-6 is supported in a chassis running in Interopmode 2 or 3 (FC10-6 to FC10-6 connections only). An FC10-6 blade will not synchronize with a McDATA 10G blade but will not negatively affect the system.

Zoning

- Beginning with the FOS v6.2.0 release, all WWNs containing upper-case characters are automatically converted to lower-case when associated with a zone alias and stored as part of a saved configuration on a switch. For example, a WWN entered as either "AA.BB.CC.DD.EE.FF.GG.HH" or "aa.bb.cc.dd.ee.ff.gg.hh" when associated with a zone alias will be stored as "aa.bb.cc.dd.ee.ff.gg.hh" on a switch operating with FOS v6.2.0 or later.

This behavioral change in saved zone alias WWN members will not impact most environments.

However, in a scenario where a switch with a zone alias WWN member with upper case characters (saved on the switch with pre-FOS v6.2.0 code) is merged with a switch with the same alias member WWN in lower case characters, the merge will fail, since the switches do not recognize these zoning configurations as being the same.

For additional details and Workaround solutions, please refer to the latest FOS Admin Guide updates or contact Brocade Customer Support.

Fabric Watch

- Fabric Watch has been modified so that Core blade status reporting behaves like a CP blade instead a port blade:

FW Area	Threshold		Original behavior if one blade is absent/off	New behavior if one blade is absent/off.
	Down	Marginal		
CP	0	1	Switch/Standby CP state will be Marginal	No change.
Core blade	0	1	Switch/Core Blade state will be healthy.	Switch/Core Blade state will be Marginal.
Port Blade	0	1	Switch/Blade state will be healthy.	No change

Note: If any type of blade goes to a faulty state, the switch/blade state will be marginal.

Fabric Watch: Port Fencing

- For Port Fencing, once the trigger threshold is exceeded (e.g. for ITWs or CRCs or LRs), Fabric Watch will wait for approximately six seconds to see if the port is going offline. If it is still online at the next poll cycle, FW will fence the port. Extensive testing has shown that ports that are in the process of going offline may exhibit bursts of errors. Waiting the additional six seconds to check the port status helps prevent false positives and unnecessarily fencing a port (e.g. during a server reboot) When using the Port Fencing **Feature**, you must first run the fwalarmsfilterset command. This command enables the port and allows you to receive Port Fencing messages.
- Port Fencing can be inadvertently disabled from Web Tools. This happens when you do the following:
 - Open the Fabric Watch configuration window.
 - Check the "SNMP Trap" checkbox in the "Above" row.

This change in Web Tools disables Port Fencing. If this happens, you must re-enable the Port Fencing bit from the command line interface.

- Port Fencing **Feature** is not supported for Loss of Sync (LOS) and Link Failure (LF) areas of Port/F-port/E-port classes.

Extended Fabrics and R_RDY Flow Control

Beginning with Fabric OS v5.1, Brocade supported the Extended Fabrics **Feature** in conjunction with R_RDY flow control (R_RDY flow control mode can be enabled via portCfgISLMode command). R_RDY flow control mode that uses IDLE primitives does not support Brocade frame-based Trunking for devices such as Time Division Multiplexor (TDM). In order to overcome this limitation and provide support for frame-based Trunking with Extended Fabrics, Fabric OS v6.2.x has been enhanced to support interoperability with these distance extension devices.

Fabric OS v6.2.x allows Extended Fabrics E_Ports to operate in VC_RDY mode using either ARB or IDLE primitives as fill words. This allows frame-based Trunking to be supported on Extended Fabrics E-ports even when IDLE primitives are configured for these ports when operating in native VC_RDY mode. Prior to this change, frame-based Trunking was supported only when ARB primitives were used in VC_RDY mode.

With Fabric OS v6.2, frame-based Trunking is supported on Extended Fabrics E_Ports regardless of whether IDLE or ARB primitives are used when operating in native VC_RDY mode.

Implementation

The portcfglongdistance CLI parameter “VC Translation Link Init” is now overloaded to specify if the long distance link should use IDLE or ARB primitives. By default, vc_init is enabled. If vc_init is enabled, the long distance link will use ARB primitives. If vc_init is disabled, the link will use IDLE primitives.

Note:

Buffer-to-Buffer Credit Recovery **Feature** is not supported on Extended Fabrics E_Port when it is configured to use IDLE primitives. The user must disable buffer-to-buffer credit recovery **Feature** using the command portcfgcreditrecovery and specifying the disable option; otherwise, the link will continuously reset.

The Adaptive Networking SID/DID Traffic Prioritization QoS **Feature** is not supported on Extended Fabrics E_Ports when IDLE primitives are configured on these ports. This is because in this mode only data Virtual Channels are available while QoS related virtual channels are not available.

When connecting to an extension device that does not support ARB primitives (such as some TDM products), the following configuration must be used:

```
portcfgqos -disable <port>
portcfgcreditrecovery -disable <port>
portCfgLongDistance <port> <LD|LD> 0 <distance>
```

The fabric parameter “fabric.ops.mode.longdistance” is now deprecated and should not be used.

8G Link Initialization & Fill Words

Background

The FC-PI Fibre Channel standard has defined the requirements for physical layer, it considers all aspects of transmit, receive and cable-plant performance requirements for optical and electrical links. The FC-PI standard has been modified to support new physical layer variants that operate at higher data rates than those specified in FC-PI-2. The standard enables interoperability of transmitter devices, receiver devices, interconnects, and components among different manufacturers. New variants include support for an 800 MB/s data rate. The previous implementation by Brocade was to use Idles for link initialization and Idles as fill words. This works for 1 Gb/ 2Gb / 4Gb and most 8Gb devices. However, some new 8 Gb devices have problems with the use of Idle/Idle sequence at 8Gb. 8Gb switches, HBAs and smaller mid-range 8Gb storage devices have been out for nearly a year and have been using the Idle/Idle sequences without issue. We have found that some new 8Gb devices require the ARB (FF) / ARB (FF) sequence to have successful link initialization. For this Brocade has developed an implementation of ARB (FF) / ARB (FF) for initialization and fill words.

A new command has been created to configure the ARB/ARB implementation.

New Command

portCfgFillWord

This command configures the fill word for a single 8G FC port.

Synopsis **portcfgfillword** [slotnumber/]portnumber, mode

Description Use this command to configure the fill word of an 8G FC port. This command is not applicable to non 8G FC port. This command disables and re-enables the port and the port comes online with the new fill word setting. The configuration is stored in nonvolatile memory and is persistent across switch reboots or power cycle.

Notes This configuration cannot be set on VE_Ports or VEX_Ports.

Use the **portCfgShow** command to display user-configured fill word settings.

The execution of this command is subject to Admin Domain or Virtual Fabric restrictions that may be in place.

Operands This command has the following operands:

slotnumber For bladed systems only, specifies the slot number of the port to be configured, followed by a slash (/).

portnumber Specifies the number of the port to be configured, relative to its slot for bladed systems. Use **switchShow** for a listing of valid ports.

mode Specifies the fill word for portnumber. This operand is required. Valid values are one of the following:

0 IDLE in Link Init and IDLE as fill word (default).

1 ARB(ff) in Link Init and ARB(ff) as fill word.

Examples To set the fill word of a port to ARBFF-ARBFF:

```
switch:admin>portcfgfillword 2/3, 1
```

See Also **portCfgShow**

Behavior

Default mode	The only mode of operation in FOS 6.1 up to this time had been the Idle implementation. With the introduction of FOS v6.1.2 there will be the introduction of the new command to facilitate a change to the ARB implementation. FOS 6.2.0 specifically v6.2.0, v6.2.0a & v6.2.0b had defaulted to ARB/ARB for 8Gb devices. With the introduction of v6.2.0c the new command will default to mode 0 (Idle) and provide the user the ability to configure the ARB configuration.
Existing Product	For product in the field, this change has no effect on current configurations. The mode is currently 0 and during a firmware upgrade the mode will remain 0 and no devices will be impacted. Should a new device be added to the configuration that requires the ARB sequence those ports can be configured at such time. Loading 6.2.0c will not automatically change the mode. In current configurations, the mode will have to be changed manually. This change does not affect 1Gb/2Gb or 4Gb devices. Any of the settings of 0 or 1 have no effect on these devices. It only affects devices that negotiate or are fixed to 8Gb speeds.
Changing the mode on the fly after v6.2.0c has been installed.	The portCfgFillWord command will change the configuration parameter and automatically disable/enable the port for which the command invoked. Subsequent link initializations will use ARB(FF).
Other scenarios	The command has no effect on 1Gb / 2Gb / 4Gb devices but the mode is persistent. If in the future, a device attempts to negotiate or is fixed to 8G the configured mode will take effect. The persistent configuration is on a port by port basis (i.e. if an 8Gb device was connected to a 2Gb or 4Gb optic and that optic was replaced with an 8Gb optic, then the current behavior of the mode is activated.)

Updated command message

When executing the lscfg --create command via the following syntax:

```
switch_128:FID128:admin> lscfg --create 1
About to create switch with fid=1. Please wait...
```

Logical Switch with FID (1) has been successfully created.

User should expect to see this revised message:

Logical Switch has been created with default configurations.
Please configure the Logical Switch with appropriate switch
and protocol settings before activating the Logical Switch.

Documentation Updates

This section provides information on last-minute additions and corrections to the documentation. The most recent Fabric OS v6.2.0 documentation manuals are available on MyBrocade: <http://my.brocade.com/>.

Brocade Fabric OS Administrator's Guide (Publication Number 53-1001185-01)

On page 9, in Chapter 1, under the heading "Setting the static addresses for the Ethernet network interface," remove the following example from step 3:

Example of setting logical switch (sw0)'s IPv6 address on an enterprise-class platform:

```
ecp:admin> ipaddrset -ipv6 -sw 0 -add 1080::8:800:200C:417B/64
IP address is being changed...Done.
```

In chapter 2, "Managing User Accounts" on page 70 under the heading "RADIUS configuration with Admin Domains or Virtual Fabrics" replace the bullets:

- *HomeContext* is the designated home Virtual Fabric for the account. The valid values are between 1 to 128 and chassis context. The first valid HomeContext key-value pair is accepted by the switch, Additional HomeContext key-value pairs are ignored.
- *ContextRoleList* is a comma-separated list of Virtual Fabric ID numbers to which this account is a member. Valid numbers range from 1-128, inclusive. A dash between two numbers specifies a range. Multiple VFlist key-value pairs within the same or across the different Vendor-Type codes are concatenated. Multiple occurrences of the same VF ID number are ignored.
- *HomeLF* is the designated home Virtual Fabric for the account. The valid values are between 1 to 128 and chassis context. The first valid HomeLF key-value pair is accepted by the switch, additional HomeLF key-value pairs are ignored.
- *LFRoleList* is a comma-separated list of Virtual Fabric ID numbers to which this account is a member. Valid numbers range from 1-128, inclusive. A dash between two numbers specifies a range. Multiple Virtual Fabric list key-value pairs within the same or across the different Vendor-Type codes are concatenated. Multiple occurrences of the same Virtual Fabric ID number are ignored.

The paragraph following the bullets should read:

RADIUS authentication requires that the account have a valid role through the attribute type *Brocade-Auth-Role*. The additional attribute values ADList, HomeAD, HomeLF, and LFRoleList are optional. If they are unspecified, the account can log in with AD0 as its member list and home Admin Domain or VF128 as its member list and home Virtual Fabric. If there is an error in the ADList, HomeAD, LFRoleList, or HomeLF specification, the account cannot log in until the AD list or Virtual Fabric list is corrected; an error message is displayed.

At the top of page 71, the paragraph should read as follows:

In the next example, on a Linux FreeRadius Server, the user takes the "zoneAdmin" role, with VFlist 2, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15 17, 19, 22, 23, 24, 25, 29, 31 and HomeLF 1.

```
user300 Auth-Type := Local, User-Password == "password"
Brocade-Auth-Role = "zoneadmin",
```

```
Brocade-AVPairs1 = "HomeLF=1;LFRoleList=securityadmin:2,4-8,10"  
Brocade-AVPairs2 = "LFRoleList=admin:11-13, 15, 17, 19;user:22-25,29,31\"
```

On page 77, "LDAP configuration and Microsoft Active Directory" the following bullets should be added:

- You can use the User-Principal-Name and not the Common-Name for AD LDAP authentication.

To provide backward compatibility, support authentication based on the Common Name is still supported. Common Name based-authentication is not recommended for new installations.

- A user can belong to multiple groups as long as one of the groups has the same name as the Brocade role name. Among those groups, one group name must match with either the Brocade role or mapped to a switch role in the Brocade switch.
- A user can be part of any Organizational Unit (OU).

On page 79, the example is to add Virtual Fabrics:

Example for adding Admin Domains

should be:

Example for adding Virtual Fabrics

In Chapter 4, "Configuring Advanced Security" on page 120, the following HBA models should be added to the list of supported HBAs:

- Brocade Fibre Channel HBA models 415, 425, 815, 825

In chapter 4, "Configuring Advanced Security" on page 146 under the heading "Example of an End-to-End Transport Tunnel mode" replace the word BRCD7500 with Remote Host and replace steps 1 through 9 with the following:

Secure traffic between two systems using AH protection with MD5 and configure IKE with pre-shared keys. The two systems are a switch, BROCADE300 (IPv4 address 10.33.74.13), and an external host (10.33.69.132).

1. On the system console, log in to the switch as Admin and enable IPsec.
switch:admin> ipsecconfig -enable
2. Create an IPsec SA policy named AH01, which uses AH protection with MD5.
switch:admin> ipsecconfig --add policy ips sa -t AH01 \
-p ah -auth hmac_md5
3. Create an IPsec proposal IPSEC-AH to use AH01 as SA.
switch:admin> ipsecconfig --add policy ips sa-proposal \
-t IPSEC-AH -sa AH01
4. Configure the SA proposal's lifetime in time units.
switch:admin> ipsecconfig --add policy ips sa-proposal \
-t IPSEC-AH -ltime 280000 -sa AH01

5. Import the pre-shared key file (for example, ipseckey.psk) using the **secCertUtil** command.
6. Configure an IKE policy for the remote peer.

```
switch:admin> ipseconfig --add policy ike -t IKE01 \
-remote 10.33.69.132 -id 10.33.74.13 -remoteid 10.33.69.132 \
-enc 3des_cbc -hash hmac_md5 -prf hmac_md5 -auth psk \
-dh modp1024 -psk ipseckey.psk
```

NOTE

IKE version ('-v' option) needs to be set to 1 (IKEv1) if remote peer is Windows XP/2K Host (Windows XP/2K does not support IKEv2)

7. Create an IPsec transform named TRANSFORM01 to use transport mode to protect traffic identified for IPsec protection and use IKE01 as key management policy.

```
switch:admin> ipseconfig --add policy ips transform \
-t TRANSFORM01 -mode transport -sa-proposal IPSEC-AH -action \
protect -ike IKE01
```
8. Create traffic selectors to select the outbound and inbound traffic that needs to be protected.

```
switch:admin> ipseconfig --add policy ips selector \
-t SELECTOR-OUT -d out -l 10.33.74.13 -r 10.33.69.132 \
-transform TRANSFORM01
```

```
switch:admin> ipseconfig --add policy ips selector \
-t SELECTOR-IN -d in -l 10.33.69.132 -r 10.33.74.13 \
-transform TRANSFORM01
```
9. Verify the IPSec SAs created with IKE using the **ipseconfig --show manual-sa -a** command.
10. Perform the equivalent steps on the remote peer to complete the IPsec configuration. Refer to your server administration guide for instructions.

On page 150, in Table 41, the row for IPSec applies to FCIP IPSec. For IPSec (Ethernet), only MD5 is blocked in FIPS mode. DH group 1 is FIPS compliant and is not blocked.

In Chapter 8, "Installing and Maintaining Firmware" on page 220, the following paragraph should be added to the caution statement:

If you perform a firmware downgrade from Fabric OS v6.2.2 to v6.1.x on enterprise-class platforms, do not select the auto-reboot option when prompted (the default is no auto-reboot). Both of the CPs must be downgraded first and then rebooted at the same time to avoid 6.1/6.2 synchronization issues.

On page 290, in Chapter 10, in Table 69, for the FS8-18 blade, change the support under the Brocade 48000 (CP4) heading to 'unsupported'.

On page 351, in the section "Limitations and restrictions of Traffic Isolation," add the following items:

- Two N_Ports that have the same shared area cannot be configured in different TI zones. This limitation does not apply to E_Ports that use the same shared area.

- Ports that are in different TI zones cannot communicate with each other if failover is disabled, even if they are in the same (regular) zone.

For example, the following figure shows two hosts and three targets in two TI zones. Assume that Host 1, Host 2, Target 1, Target 2, and Target 3 are also included in a regular zone, Zone A. Even though the hosts and targets are all in the same zone, if failover is disabled on the TI zones, traffic from Host 1 is isolated to the dashed line and Host 1 cannot communicate with Target 2. Likewise, traffic from Host 2 is isolated to the dotted line and Host 2 cannot communicate with Target 1.

Host 1 *can* communicate with Target 3, however, because even though N_Port 3 is in a different TI zone than Host 1, Host 1 and Target 3 are connected to the same switch, with no E_Ports between.

In chapter 16, “Using the FC-FC Routing Service,” under the section Supported Configurations on page 428, add the following note after the last paragraph:

In configurations with two backbones connected to the same edge fabric, routing is not supported between edge fabrics that are not directly attached to the same backbone. Routing over multiple backbones is a multi-hop topology and is not allowed.

In chapter 20, “Configuring and Monitoring FCIP Extension Services,” under the heading “Constraints for FC FastWrite” on page 540, the following bullet should be added to the list of bullets:

- Connecting E_Ports to ports already configured for FC FastWrite is not supported.

On page 420, in the section “QoS zones,” replace the last paragraph on the page (the paragraph starting with “A QoS zone has a special name...”) with the following:

A QoS zone has a special name, to differentiate it from a regular zone. The format of the QoS zone name is as follows:

For high priority:	QOSHid_xxxxx
For low priority:	QOSLid_xxxxx

Where *id* is a flow identifier that designates a specific virtual channel for the traffic flow and xxxxx is the user-defined portion of the name. For example, the following are valid QoS zone names:

QOSH3_HighPriorityTraffic
QOSL1_LowPriorityZone

The switch automatically sets the priority for the “host, target” pairs specified in the zones based on the priority level (H or L) in the zone name.

The flow *id* allows you to have control over the VC assignment and control over balancing the flows throughout the fabric. The *id* is from 1 – 5 for high priority traffic, which corresponds to VCs 10 – 14. For low priority traffic, the *id* is from 1 – 2, which corresponds to VCs 8 and 9. The *id* is optional; if it is not specified, the virtual channels are allocated using a round-robin scheme.

On page 424, in the section “Setting traffic prioritization,” replace step 2 with the following:

2. Enter the **zoneCreate** command. The format varies depending on whether you want high or low priority traffic.
 - For high priority traffic, use the following syntax:

```
zonecreate "QOSHid_zonename", "member[; member...]"
```

- For low priority, use the following syntax:
zonecreate "QOSLid_zonename", "member[; member...]"

where:

<i>id</i>	A flow identifier that indicates a specific virtual channel to which the traffic is assigned. This value is from 1 – 5 for high priority traffic and from 1 – 2 for low priority traffic.
<i>zonename</i>	The user-defined part of the name of the zone to be created.
<i>member</i>	A member or list of members to be added to the zone. A zone member must be specified using WWN only.

In Section II, “Licensed **Features**,” the chapter numbering is wrong. The correct chapter numbers should be:

Chapter 16, “Optimizing Fabric Behavior”
Chapter 17, “Using the FC-FC Routing Service”
Chapter 18, “Administering Advanced Performance Monitoring”
Chapter 19, “Administering Extended Fabrics”
Chapter 20, “Administering ISL Trunking”
Chapter 21, “Configuring and Monitoring FCIP Extension Services”
Chapter 22, “FICON Fabrics”
Chapter 23, “Configuring and Monitoring FICON Extension Services”

The chapter numbers referred to in the “Documentation Updates” section of this release note refer to the original chapter numbers.

Brocade Fabric OS Command Reference (Publication Number 53-1001186-01)

The following text should be added to the **bpPortloopbackTest** (page 55) and the **bpTurboramTest** commands (page 57) and the associated man pages on the switch:

- A **[–slot slotnumber]** operand should be added to the syntax. This operand specifies the *slotnumber* and is required on bladed systems.
- The following text should be added to both commands: “Before running this diagnostic, you must disable the chassis and clear all logs using the following command sequence:
 1. **chassisdisable**
 2. **slotstatsclear**
 3. **diagclearerror -all**
 4. **burninerrclear**
 5. **cryptocfg –disableEE** (if the encryption engine is in enabled state)”

This procedure disables the chassis, the encryption engine, and clears all logs. Failure to run this procedure will cause the diagnostic to abort with failure status.

On page 89, **cfgDefault** command and associated man page: The new **–chassis** parameter introduced in this release is currently unavailable. When you execute **configdefault –chassis** in the root or admin role, permission denied message is displayed. Use the **–all** parameter instead.

On page 543, **portCfg** command and associated man page, the following should be changed:

- Under the ipf parameter, the sentence “The IP network connection between two 7500 routers or two **FC4-18i** blades is configured...” should read: “The IP network connection between two 7500 routers or two **FR4-18i** blades is configured...”

On page 787 “systemVerification” command and associated man page, the following should be changed:

- Test target: “all switches in a system. “ Should read “a switch or a chassis”
- The **-fru** type parameter is invalid and should not be used.
- The first note in the Notes section should read, “The switch must be offline for this command to run. If Virtual Fabrics are enabled on the switch, run chassisDisable to take all Logical Switches offline.”
- The third note in the Notes section should read, “On platforms that include a security processor, you must disable the security processor by running **cryptocfg --disableEE slot** before running **systemVerification**. You must re-enable the security processor with the **cryptocfg -enableEE slot** command once system verification is complete.”
- The following note should be added to the Notes section: “Do not perform any configuration changes such as **configUpload** or **configDownload** while the **systemVerification** test is in progress.”

On page 853: The permission table in the command availability chapter, Appendix A, for the **aptpolicy** command incorrectly states that the command requires chassis permissions. This is not the case as this command is executed on a per logical switch basis. The context value for **aptpolicy** should read VF and the switch type is “All”.

The following error should be corrected in the man page for the **configure** command:

- The man page currently states about the *Allow XISL use* parameter: “On the Brocade 5100 or 5300 default switch, the **Feature** is disabled by default (default value: yes).”
- The description should be corrected to read, “On the Brocade 5100 or 5300 default switch, the **Feature** is disabled by default (default value: no).”
- Note that the corresponding description in the Command Reference (page 107) is correct.

Fabric OS Troubleshooting and Diagnostics Guide (Publication Number 53-1001187-01)

On page 47, in the “Preinstallation Messages” section, append the first paragraph and following courier text with the following additional information:

The blocking cases, except the new cases specific to Fabric OS v6.2.2, can be removed. The blocking cases are not accumulative from version to version.

Downgrade is not allowed because VF is enabled. Please run "lscfg --config" and "lscfg --delete" commands to remove the non-default LS first, then run "fosconfig --disable vf" to disable VF before proceeding."

Downgrade is not allowed because AG is enabled. Please run "ag --modedisable" command to disable AG mode before proceeding."

Non-disruptive firmwaredownload is not supported when downgrading to 6.1. Please use firmwaredownload -s to download the 6.1 firmware.

The FS8-18 (type 43) blade is not supported by the target firmware. Please use slotshow to find out which slot it is in and remove it first."

DCX-4S is not supported by the target firmware. Please try to download another firmware.

Brocade Fabric Watch Administrator's Guide (Publication Number 53-1001188-01)

In Chapter 7, "Fabric Watch default settings," a number of default setting high thresholds were changed, as follows:

- On page 45, "Port Class Default Settings," the link failure count (high) setting was changed from 1000 to 500. The loss of synchronization count (high) was changed from 1000 to 500.
- On page 47, "E_Port Class Default Settings," the link failure count (high) setting was changed from 5 to 500. The loss of synchronization count (high) was changed from 1000 to 500.
- On page 49, "F/FL_Port Class Default Settings," the link failure count (high) setting was changed from 1000 to 500. The loss of synchronization count was changed from 1000 to 500.

In Chapter 8, on page 58, the example in step 3 is missing the Link Reset class. The new menu is as follows:

- 1: Link loss
- 2: Sync loss
- 3: Signal loss
- 4: Protocol error
- 5: Invalid words
- 6: Invalid CRCs
- 7: RXPerformance
- 8: TXPerformance
- 9: State Changes
- 10: Link Reset
- 11: return to previous page

Fabric OS MIB Reference (Publication Number 53-1001156-01)

On page 605, add the following values to the swFCPortPhyState object:

- validating (10) The module is being validated.
- invalidModule (11) The module is invalid.

On page 781, add the following values to the fruClass object:

- 10: coreblade(10)
- 11: applicationblade(11)

Access Gateway Administrator's Guide (Publication Number 53-1001189-01)

The entry for the brocade 5100 in Table 11 (Access Gateway Default F_Port-to-N_Port Mapping) on page 55 should read as follows:

F_Ports are ports 0-31 and N_Ports are ports 32-39.

Brocade Encryption Administrator's Guide (Publication Number 53-1001201-02)

In Chapter 2, “*Encryption configuration using the management application*”:

- On page 77, under the topic “Master Keys”, the opening sentence should read, “When an RSA or SKM key vault is used”.
- On page 78, the three bulleted items should include SKM, as follows:
 - **Backup master key**, which is enabled any time a master key exists when using an RSA or SKM key vault.
 - **Restore master key**, which is enabled when using an RSA or SKM key vault and either no master key exists or the previous master key has been backed up.
 - **Create new master key**, which is enabled when using an RSA or SKM key vault and either no master key exists or the previous master key has been backed up.

In Chapter 3, “*Encryption configuration using the CLI*”:

- On page 95, the following lines should be removed from the Help command output.

```
--setEE [<slotnumber>] -routing <shared | partitioned>:  
Set encryption routing policy.
```
- On page 119, Step 2, “Set the RKM key vault type” should read “Set the SKM key vault type”.
- On page 119, Step 3a, the cryptocfg command example should have the -KACcsr option rather than -KACCert, e.g., cryptocfg --export -scp -**KACcsr**.
- On page 122, step 14 is extraneous and should be removed.
- On page 125, the following topic should be added.

Generating and exporting the master key

You must generate a master key on the group leader, and export it to a backup location.

1. Generate the master key on the group leader.

```
SecurityAdmin:switch>cryptocfg -genmasterkey
```

2. Export the master key to the key vault.

```
SecurityAdmin:switch>cryptocfg -exportmasterkey
```

This command prompts for a pass phrase.

Enter the passphrase:

3. Enter the pass phrase when prompted. The pass phrase is used for the master key encryption. A pass phrase must be between 8 and 40 characters in length and can contain any character combination. Make a note of the key ID and the pass phrase. You will need the key ID and pass phrase if you should need to restore the master key from backup.
4. Export the master key to an SCP-capable external host:

```
SecurityAdmin:switch cryptocfg -export -scp -currentMK <host IP> <host user> <host file path>
```

Brocade DCX Backbone Hardware Reference Manual (Publication Numbers 53-1000685-01 through -05)

All references to the FC4-16IP blade (iSCSI blade) should be ignored. The DCX Backbone does NOT support the FC4-16IP.

The Power Cords table of Appendix A - Specifications should read as follows:

Power cords

The types of power cords provided with the Brocade DCX are specific to the country where it is installed. For each of these types of power cords (Table 5), the end that connects to the Brocade DCX has an IEC 60320/C19 cable connector. The AC power receptacles on each power supply are equipped with IEC 60320/C20 power connectors.

To order a power cord, contact your Brocade DCX supplier.

Country	Plug style				
	NEMA L6-20 USA, Canada, Mexico, other North American locations	CEE-7/7 "Schuko" Continental Europe/Ireland	BS-1363A United Kingdom/ Hong Kong	AS 3112 Australia/New Zealand	IEC-60309 32A-6h, 230 V~
					
Argentina					X
Australia				X	
Austria		X			
Bahrain			X		
Belgium		X			
Brazil	X				
Chile	X				
China, People's Rep				X	
Czech, Rep. of					X
Denmark					X
Egypt					X
England					X

Country	Plug style				
	NEMA L6-20 USA, Canada, Mexico, other North American locations	CEE-7/7 “Schuko” Continental Europe/Ireland	BS-1363A United Kingdom/ Hong Kong	AS 3112 Australia/New Zealand	IEC-60309 32A-6h, 230 V~
					
Finland					X
France		X			
Germany		X			
Greece		X			
Hong Kong		X			
Hungary			X		
India		X			
Indonesia					X
Ireland, North				X	
Ireland, South		X			
Israel			X		
Italy					X
Japan					X
Korea, South					X
Malaysia		Alternate			Recommended
Mexico	X				
Monaco		X			
Netherlands					X
New Zealand				X	
Norway					X
Poland					X
Portugal		X			
Puerto Rico	X				
Russia		X			
Saudi Arabia					X
Scotland					X
Singapore			X		
South Africa			X		
Spain					X
Sweden					X
Switzerland					X
Taiwan	x				
Turkey					X
United Arab Emirates		X			
United Kingdom/ Ireland					X

Country	Plug style				
	NEMA L6-20 USA, Canada, Mexico, other North American locations	CEE-7/7 “Schuko” Continental Europe/Ireland	BS-1363A United Kingdom/ Hong Kong	AS 3112 Australia/New Zealand	IEC-60309 32A-6h, 230 V~
					
United States	X				
Venezuela	X				
Yugoslavia					X

Brocade DCX-4S Hardware Reference Manual (Publication Number 53-1001191-01)

The entry for step 8 on page 65 should be deleted. When you pull the WWN card out by the pull tab (step 7), it unplugs directly from the backplane.

The entry for step 2 on page 66 should read as follows:

2. Hold the card by the pull tab and plug the card into the backplane. Use the Philips screwdriver and the captive screw to attach the WWN card to the chassis.

Brocade 5100 Hardware Reference Manual (Publication Number 53-1000854-02)

Table 1 on page 19 describes LED operation for the power supply. Following is an addition to this table.

LED Name	LED Color	Status of Hardware	Recommended Action
Power Supply Status	Flashing green	Power supply failure.	Replace power supply.

Brocade 7500 Extension Switches Hardware Reference Manual (Publication Number 53-1000026-04)

Table 4 on page 25 describes LED operation for the Fibre Channel ports. Following is an addition to this table that describes operation of the two GbE ports.

LED Name	LED Color	Status of Hardware	Recommended Action
Port Status	No light	No signal or light carrier (media or cable) detected. No SFP installed or	Verify the unit power LED is on, and check the SFP and cable.

LED Name	LED Color	Status of Hardware	Recommended Action
		faulty SFP.	Install or replace SFP.
	Steady green	An SFP is installed and functioning, and the link is up.	No action required.
	Flashing green	Activity on port.	No action required.
	Steady amber	SFP is installed, but not connected or the link is not up.	No action required.

Brocade 48000 Hardware Reference Manual (Publication Number 53-0000645-05)

A fully populated Brocade 48000 with eight FC8-32 or eight FC8-16 port blades does not have enough power with only one power supply. It is recommended that the 48000 be configured with four power supplies in this scenario. The blades will not power down or fail to power up unless three power supplies fail. A fully populated 48000 will continue to operate properly with two power supplies.

The Hardware Components section on page 2 should include the following sub-bullet beneath the "Modular hot-swappable field replaceable units (FRUs) bullet:

- Two power supplies are required at all times in a fully populated 48000 chassis.

Brocade SilkWorm 200E Hardware Reference Manual (Publication Number 53-0000633-03)

Table 3-2 “System Status LED Patterns During Normal Operation” has the incorrect behavior listed in row three. Instead of reading *Slow-flashing green*, it should read *Flashing amber/green*.

Under “Regulatory Compliance” in “Product Specifications” (Appendix A), add the following statement:

Power Cords (Japan, Denan)



注意 – 添付の電源コードを他の装置や用途に使用しない

添付の電源コードは本装置に接続し、使用することを目的として設計され、その安全性が確認されているものです。決して他の装置や用途に使用しないでください。火災や感電の原因となる恐れがあります。

Attention: Never use the power cord packed with your equipment for other products.

Brocade SilkWorm Multiprotocol Router Model AP7420 Hardware Reference Manual (Publication Number 53-1000179-01)

Under “Regulatory Compliance” in “Specifications and Regulatory Compliance” (Appendix A), add the following statement:

Power Cords (Japan, Denan)



注意 – 添付の電源コードを他の装置や用途に使用しない

添付の電源コードは本装置に接続し、使用することを目的として設計され、その安全性が確認されているものです。決して他の装置や用途に使用しないでください。火災や感電の原因となる恐れがあります。

Attention: Never use the power cord packed with your equipment for other products.

Brocade Mi10K Director Installation and Service Manual (Publication Number 53-1000711-01)

Step 10 on page 2-13 should be the following:

Change the IP address, subnet mask, and gateway address as directed by the customer. To change the addresses, type the following and press **Enter**.

system ip address xxx.xxx.xxx.xxx yyy.yyy.yyy.yyy zzz.zzz.zzz.zzz

The IP address is xxx.xxx.xxx.xxx, the subnet mask is yyy.yyy.yyy.yyy, and the gateway address is zzz.zzz.zzz.zzz, where the octets xxx, yyy, and zzz are decimals from zero through 255. If an address is to remain unchanged, type the current address in the respective field.

Brocade Fabric OS Message Reference (Publication Number 53-1001157-01)

On page 515, in Chapter 86, the “TRCK-1004” raslog messages are not logged in v6.2.2 due to **Feature** deprecation.

Defects

Closed with Code Change Defects in Fabric OS v6.2.2d

This section lists defects closed in Fabric OS v6.2.2d as of September 16, 2010. When available Brocade provides a Workaround to issues listed in the defect table.

Defect ID: DEFECT000304839	Technical Severity: High
Summary: F_Port comes online as a G_Port on Brocade 200E and 4G embedded platforms, causing the host not to log in.	
Symptom: During a host reboot, the host may not come up when connected to Brocade 200E and 4G embedded platforms.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Medium	
Found in Release: FOS6.2.2	Service Request ID: 436525

Defect ID: DEFECT000312516	Technical Severity: High
Summary: Weblinker processes terminate (core dump) and then restart when management app (DCFM, etc.) queries Top Talker information using CAL requests over HTTP.	
Symptom: Weblinker processes terminate and then restart when querying Top Talker information from the switch.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.3.1	Service Request ID: 445261

Defect ID: DEFECT000313665	Technical Severity: High
Summary: Domain table routing entry is accidentally cleared on an EX-Port after hfailover causing backbone host not to be able to discover targets.	
Symptom: After an HA failover or code upgrade occurs on the backbone FCR on an 8G platform only, the host on the backbone FCR is unable to discover its targets.	
Feature: 8G ASIC Driver	Function: C2 ASIC driver
Probability: Low	
Found in Release: FOS6.4.1	

Defect ID: DEFECT000319613	Technical Severity: High
Summary: Switch panic due to access gateway on AG enabled switches	
Symptom: During upgrade from FOS v6.1.x to FOS v6.2.2c, AG enabled switch panics. It impacts AG switch with FOS v6.2.2c upgrade only. It does not apply to FOS v6.1.x upgrade to any other FOS v6.2 release, nor FOS v6.2.x->v6.3.x upgrade.	
Feature: Access Gateway Services	Function: Daemon
Probability: High	
Found in Release: FOS6.2.2	

Closed with Code Change Defects in Fabric OS v6.2.2d

Defect ID: DEFECT000260552	Technical Severity: Medium
Summary: Fabric Watch messages logged with values above 100%.	
Symptom: Fabric Watch FW-1186 & FW1190 messages are being logged with percentages above 100%, which is not possible. This is likely to happen during the first Fabric Watch polling cycle after slotstatsclear command has been issued.	
Feature: Field Escalation	Function: Management Services
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 384439
Where Else Fixed: FOS6.2.2, FOS6.3.1, FOS6.4.0	

Defect ID: DEFECT000274403	Technical Severity: Medium
Summary: One directional route problem in fabric prevents local switch communicating to remote switch, causing remote switch to disable local switch without any notification.	
Symptom: Switch goes to disabled state without any reason logged, and with no user action. Customer sees messages indicating RTWR has reached max retries in RASLOG.	
Feature: Field Escalation	Function: RAS Logging / Tracing
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 411755

Defect ID: DEFECT000282759	Technical Severity: Medium
Summary: Switches in AG mode are not handling multi-sequence frames properly. This causes memory corruption and switch panic.	
Symptom: One or more switches in AG mode in the same fabric have an agdd panic occur. RASLOG error messages like: "[KSWD-1002], 1285, FFDC CHASSIS, WARNING, Brocade300, Detected termination of process agd0:1793" are seen and then debug information is dumped.	
Feature: Field Escalation	Function: Access Gateway
Probability: Low	
Found in Release: FOS6.3.0	Service Request ID: 419851

Defect ID: DEFECT000284435	Technical Severity: Medium
Summary: In a fabric containing two FCRs in the backbone, with both connected via EX_Ports to the same edge fabric running MEOS in IM2 mode, iswitchd process terminates and generates a core dump, leading to an eventual switch panic.	
Symptom: In a fabric containing two FCRs in the backbone, with both connected to the same edge fabric through EX-ports, and an edge MEOS switch in IM2 mode, the switch generates a core dump from the iswitchd process, followed by an eventual switch panic.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.2.1	Service Request ID: 421137
Where Else Fixed: FOS6.3.2, FOS6.4.0, FOS6.3.1 b	

Closed with Code Change Defects in Fabric OS v6.2.2d

Defect ID: DEFECT000289516	Technical Severity: Medium
Summary: The SW_V5_8.mib MIB file has an invalid revision number, causing MIB compiler failure in applications trying to use it.	
Symptom: 3rd party application cannot compile when using the SW_V5_8.mib MIB file.	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: High	
Found in Release: FOS6.2.0	Service Request ID: 424239

Defect ID: DEFECT000298774	Technical Severity: Medium
Summary: CDR-1003 messages are still being logged and flagged as CRITICAL in the RASLOG during supportsave operations. These need changed to non-CRITICAL warnings so they can be ignored unless they are happening when no supportsave operation is being performed.	
Symptom: After upgrading to FOS 6.2.x firmware on Brocade 4G platforms, CDR-1003 CRITICAL messages are posted to the RASLOG during supportSave operations.	
Workaround: Ignore if CDR-1003 happens during supportsave and does not persist beyond this.	
Feature: 4G ASIC Driver	Function: ASIC Driver
Probability: High	
Found in Release: FOS6.3.1	
Where Else Fixed: FOS6.3.2, FOS6.4.0 a	

Defect ID: DEFECT000305690	Technical Severity: Medium
Summary: Access Gateway trace data does not contain complete enough information for path loss debugging. AG tracing needs improved to allow path loss traces to be gathered properly.	
Symptom: None, other than that the AG trace data does not contain complete debugging information.	
Feature: Field Escalation	Function: Access Gateway
Probability: High	
Found in Release: FOS6.2.2	Service Request ID: 429507

Defect ID: DEFECT000307559	Technical Severity: Medium
Summary: Admin password reverted to default after firmwaredownload from FOS v6.1.2 to FOS v6.2.2c.	
Symptom: Admin password will reset to default after upgrading from FOS v6.1.x to FOS v6.2.2c. This impacts all platforms supported on FOS v6.2.x except Brocade 4020.	
Workaround: If the ultimate goal is to upgrade from FOS v6.1.x to FOS v6.2.2c, upgrade to any FOS v6.2.x release, except FOS v6.2.2c before installing FOS v6.2.2c.	
Feature: High Availability	Function: Switch hareboot/HCL
Probability: High	
Found in Release: FOS6.2.2	Service Request ID: 442187

Closed with Code Change Defects in Fabric OS v6.2.2d

Defect ID: DEFECT000308933	Technical Severity: Medium
Summary: Additional port counters/statistics available in FA MIB for 4G embedded platforms need exposed via SNMP.	
Symptom: FA MIB counters such as Link Error State Block, Port Level Performance/Error, and other similar objects are available through CLI but not through SNMP.	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: Low	
Found in Release: FOS6.4.0	

Defect ID: DEFECT000314056	Technical Severity: Medium
Summary: Due to incorrect internal counter logic, PORT-1003 port faults are being reported in the RASLOG when they shouldn't be.	
Symptom: After a long switch uptime, if there are greater than 50 link down events before a switch is rebooted (as opposed to within 2 minutes), the port is faulted with a PORT-1003 being reported in the RASLOG.	
Feature: Diagnostics	Function: Other
Probability: Low	
Found in Release: FOS5.3.0	Service Request ID: 443043

Closed with Code Change Defects in Fabric OS v6.2.2c

This section lists defects closed in Fabric OS v6.2.2c as of May 20, 2010. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000269222	Technical Severity: High
Summary: Directors with 8G blade in slot 1 or 8G switches see frame drop in fabric when there is Ex/VEx ports	
Symptom: Host cannot see target or observe poor performance in fabric . This impacts directors having 8G blade in slot 1 and 8G switches. Furthermore, to expose this defect, there has to be Ex/VEx port configured in the same ASIC chip as a F/E port with EGID 0. User can identify a fabric has this problem by run "sloterrshow 1"on directors or sloterrshow on switch, and "type6_miss" counter should continuous incrementing during traffic load on backend port/E_Port.	
Workaround: Avoid configuring an EX_Port or a VEx_Port near an F/E port with an EGID of 0. To identify a port with an EGID of 0, login in as root and run "bladeportmap [1]". The first port where "Upt" is not -1 uses EGID 0. Once the problem occurs, the user must make the F/E port into an EX_Port and then configure it back to an F/E port to fix the problem port. Execute the following instructions. 1) Disable the F/E port 2) Configure the F/E port as an EX_Port for a valid FID 3) Connect a link between the FID and the EX port (IFL) 4) Enable the port 5) Verify that the link is online. Then disable the port 6) Disable the EX_Port configuration 7) Connect the host/ISL back to the F/E port 8) Enable the port	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 401939

Defect ID: DEFECT000273633	Technical Severity: High
Summary: Switch reboot caused by name server daemon panic during Frame Redirect (FR) zone create/commit.	
Symptom: Switch reboot or directors hafailover during frame redirection zone creation caused by memory corruption. This was observed during stress test with hafailover loop in combination of adding/removing frame redirection zones and running host I/O. This is a rare event but could impact any platforms creating FR zoning.	
Feature: FC Services	Function: Name Server
Probability: Low	
Found in Release: FOS6.1.0	

Closed with Code Change Defects in Fabric OS v6.2.2c

Defect ID: DEFECT000285644	Technical Severity: High
Summary: With invalid http configuration, after step upgrading from FOS v5.3.1x to FOS v6.2.x, switch or standby CP on Brocade 48000 ends up in a panic loop.	
Symptom: Brocade 200E, 4012, 4016, 4018, 4020, 4024, 4424, 4100, 4900, 5000, 7500 or 7600 switch or the standby CP within a Brocade 48000 director may remain in a perpetual reboot state when upgrading from Fabric OS version v6.1.x to Fabric OS version v6.2.x. This happens when there is inconsistency between SSL certificate and http configuration such as: a valid SSL certificate but http.enable=0 and http.ssl.enable=0 or when there is no SSL certificates but http.enable=0; please note the fix included in this release will block the upgrade until the configuration inconsistency is manually corrected	
Workaround: Manually ensure that http.enabled matches with SSL certificate by "configshow http.enabled" as admin user. If it's inconsistent with SSL Certificate requirement, please execute /fabos/libexec/webdconfigure as root to set "HTTP Enable" to yes. Or schedule a window, disable switch and configdownload a file with "http.ebale:1 [end]" when switch is at FOSv5.3.x or v6.1.x to correct the configuration. If the switch is already stuck in a reboot loop, login as root via serial console, copy & paste the following command string into console as one line before the next reboot: sed 's/http.enabled:0/http.enabled:1/g' < /etc/fabos/fabos.0.conf > tmp;cp tmp /etc/fabos/fabos.0.conf;cp tmp /mnt/etc/fabos/fabos.0.conf;rm tmp	
Feature: Field Escalation	Function: Web Management
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 420655

Defect ID: DEFECT000286396	Technical Severity: High
Summary: In SAS environment, switch panic after name server daemon assert.	
Symptom: In SAS environment on Brocade 7600 and FA4-18 blade, switch panic due to SAS scpd daemon subscribes to all the RSCNS from NS, but it uses only two of them. The other unconsumed RSCNS by scpd will result in NS mem leak and caused nsd to assert.	
Feature: Field Escalation	Function: Fabric Services
Probability: Low	
Found in Release: FOS6.1.0	Service Request ID: 423487

Defect ID: DEFECT000296864	Technical Severity: High
Summary: Switch reboot after agd panic following HCL	
Symptom: After hot code load, customer observed switch panic when in AG mode. This failure is usually observed with [PORT-1003] in raslog. This only impacts AG enabled switches.	
Feature: Access Gateway Services	Function: Other
Probability: Low	
Found in Release: FOS6.4.0	

Closed with Code Change Defects in Fabric OS v6.2.2c

Defect ID: DEFECT000298015	Technical Severity: High
Summary: After code upgrade, non Brocade branded SFPs got Mod_Val.	
Symptom: non-Brocade branded SFPs are in Mod_Val state after firmware upgrade. This impacts FOS v6.2.2x and FOS v6.3.1x only with 1 specific non-Brocade branded SFPs.	
Workaround: Use Brocade branded SFPs	
Feature: 4G Platform Services	Function: FOS Kernel Drivers
Probability: Low	
Found in Release: FOS6.4.0	

Defect ID: DEFECT000301506	Technical Severity: High
Summary: Software assert when connecting a Brocade 4018 in Access Gateway mode to switch	
Symptom: After enabling Access Gateway mode on a Brocade 4018 and connecting to a switch with a single N_Port connection, Brocade 4018 continuously reboots with a software ASSERT. Disable or remove the N_Port or disable AG mode to stop the reboot. This only happens on Brocade 4018 and when there is 9 or more F_Ports mapped to 1 or more N_Ports.	
Workaround: Use a maximum of eight F_Ports on Brocade 4018 when configure it in AG mode.	
Feature: Field Escalation	Function: Access Gateway
Probability: Medium	
Found in Release: FOS6.1.0	Service Request ID: 433577

Defect ID: DEFECT000270065	Technical Severity: Medium
Summary: Observed VE tunnel bounce, VEx/Ex port bounce after a hareboot on edge switch.	
Symptom: iswitchd disable port due to fspf timeout prematurely during hafailover under heavy load or heavy file system read/write. This should be very rare as usually hafailover finishes quickly under non-stress condition. It could impact Brocade7500/FR4-18i and 8G switches configured with VEx/Ex/VE ports.	
Feature: 8G FCR	Function: FCR Daemon
Probability: Low	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.3.1, FOS6.4.0	

Defect ID: DEFECT000270825	Technical Severity: Medium
Summary: Expose all 64 bit port stats counter through SNMP	
Symptom: 64 bit port stats is only available in CLI via portStats64Show, it's not exposed through SNMP. Enhance SNMP code to expose these counters.	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: Low	
Found in Release: FOS6.4.0	

Closed with Code Change Defects in Fabric OS v6.2.2c

Defect ID: DEFECT000278497	Technical Severity: Medium
Summary: On Brocade 4020 and 3016, with FOS v6.2.x, creating a user with userconfig having admin privileges does not link home directory properly	
Symptom: After create an account, login into switch gets: No directory ! Logging in with home = "/" and all command will return with "command not found". This problem does not exist on FOS v6.1.x and 6.3.x and only impact Brocade 4020 and 3016.	
Feature: Fabric Infrastructure	Function: Security-login
Probability: High	
Found in Release: FOS6.2.2	Service Request ID: 415781

Defect ID: DEFECT000296850	Technical Severity: Medium
Summary: Running "supportsave -k" multiple times causing the raslogd to crash and restart on FOS v6.2.x	
Symptom: Back to back "supportsave -k" command, caused the system wide notify to collect supportsave from all modules. Under race condition, it can trigger raslogd to panic. Customer can observe hafailover on directors and reboot on switch. This issue only applies to FOS 6.2.x.	
Feature: RAS	Function: FFDC/Supportsave
Probability: Low	
Found in Release: FOS6.2.2	Service Request ID: 426793

Defect ID: DEFECT000298774	Technical Severity: Medium
Summary: Multiple critical CDR-1003 raslog during supportsave	
Symptom: After a non-disruptive upgrade from Fabric OS version v6.1.x to Fabric OS version 6.2.x, CDR-1003 CRITICAL messages may be posted during a supportSave operation on Brocade 4G platforms. With the fix in this release, the critical message is update to Warning and it can be ignored unless it's persistent and not happening during supportsave.	
Workaround: Ignore if CDR-1003 happens during supportsave and not persistent.	
Feature: 4G ASIC Driver	Function: ASIC Driver
Probability: High	
Found in Release: FOS6.3.1	

Closed with Code Change Defects in Fabric OS v6.2.2c

Defect ID: DEFECT000301108	Technical Severity: Medium
Summary: WebTools nameserver is not reflecting the alias and zones created in DCFM.	
Symptom: Create a zone / alias for an end devices from DCFM, then open WebTool/nameserver, the alias and zone to the device belongs is not displayed in the "Member of zone" and "Member of alias" column.	
Workaround: Using WebTool to create a zone/alias rather than DCFM.	
Feature: WebMgmt	Function: Name Server
Probability: Medium	
Found in Release: FOS6.2.2	

Closed with Code Change Defects in Fabric OS v6.2.2b

This section lists defects closed in Fabric OS v6.2.2b as of February 26, 2010. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000270971	Technical Severity: Critical
Summary: After upgrading CM to 9.7.4 and Brocade 48000 switches to FOS v6.2.0x, customer unable to discover switches	
Symptom: After upgrading CM to 9.7.4 and Brocade 48000 switches to 6.2.0c, customer unable to discover switches due performance of SNMP get for connUnitLinkTable is reduced in FOS6.2; CM is not supported beyond FOS 6.2.x, this defect only impacts FOS v6.2 on large port count switches.	
Feature: Field Escalation	Function: Management Services
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 404123

Defect ID: DEFECT000249582	Technical Severity: High
Summary: DPC crash caused Brocade 7600 or FA4-19 blade goes to faulty.	
Symptom: When BP is rebooted in a middle of a PCI access cycle, the PCI cycle is not getting terminated properly. This result in a DPC crash. Customer could see Brocade 7600 or FA4-18 reports faulty during boot and raslog BL-1020 indicated switch timing out while initializing ASIC chips.	
Feature: FA4-18 Platform Services	Function: 1250: ANZIO DRIVER
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000261231	Technical Severity: High
Summary: RASLOG flood occurs with internal RASLOG with following weblinkercfg message on multiple switches in fabric: "weblinkercfg:1024 attempts to send message type(26) to invalid dest(IPSIPC:1024/0), comm.c, line: 453, comp:weblinkercfg, ltime:2009/07/28-11:39:	
Symptom: Due to excessive internal messages from one of the applications, other important RASLOG messages may be lost from the limited log space on each switch. This is no Functional impact and only happen on platforms does not have running ipsd (ip security daemon).	
Feature: FCIP	Function: FCIP CP
Probability: High	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.3.0 b	

Defect ID: DEFECT000269997	Technical Severity: High
Summary: Cascaded CUP failure when channel on Brocade 48000 8G blade and E Port is on different chip	
Symptom: no cascaded CUP connectivity when channel on Brocade 48000 8G blade and E port are on different ASIC chip.	
Feature: 8G ASIC Driver	Function: C2 ASIC driver
Probability: High	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.3.1	

Closed with Code Change Defects in Fabric OS v6.2.2b

Defect ID: DEFECT000272207	Technical Severity: High
Summary: Enhancement request to add a user selectable parameter to adjust SFP polling during high CPU load situation.	
Symptom: The new parameter is under System category of configurechassis CLI: %> configurechassis Configure... System (yes, y, no, n): [no] y system.cpuLoad: (10..121) [121] 20 Default is 121, represent CPU instantaneous load average of 1.21, first number in load average in uptime or top command. So by default, CPU will poll sfp when load is 1.21 or lower. Use this parameter to adjust SFP polling to avoid laser fault condition [C2-5678] causes links to reset under high CPU load.	
Feature: Field Escalation	Function: OS: Infrastructure
Probability: High	
Found in Release: FOS6.2.1	Service Request ID: 409677

Defect ID: DEFECT000277488	Technical Severity: High
Summary: Observed ASSERT - Failed expression: fabSysDynamicAreaSupported(sw->sw_inst) after firmwarecommit	
Symptom: Observed HAM-1007 and HAM-1009 MANUALLY REBOOT the system for recovery - auto-reboot is disabled. Sometime both CPs fail and switch cannot boot up. This happens only when a configuration file for dynamic area mapping is corrupted which is very rare.	
Workaround: Remove the port2Bound file in /etc/fabos/port2Bound files in both active CP and standby CPs, also in both partitions on both CP, after that, reboot the switch.	
Feature: 8G Platform Services	Function: FOS Kernel Drivers
Probability: Low	
Found in Release: FOS6.4.0	

Defect ID: DEFECT000280165	Technical Severity: High
Summary: Switch detected termination of daemons due to bad EOFa frames are forward to application rather than dropped in 8G driver	
Symptom: Under rare situation (such as marginal hardware), switch may see corrupted EOF frames forwarded to CPU for processing. 8G driver did not drop such frame and passed to upper layer application demons. This can cause switch panic or hafailvoer.	
Feature: 8G Platform Services	Function: FOS Kernel Drivers
Probability: Low	
Found in Release: FOS6.4.0	

Defect ID: DEFECT000270261	Technical Severity: Medium
Summary: CP/switch fails to boot on DCX, DCX-4s and Brocade 5300.	
Symptom: CP does not boot on power up or fails during hafailover with CF access error; "HDA: drive not ready" message sometimes are seen on console.	
Workaround: Reboot switch again	
Feature: OS Services	Function: Linux Kernal
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.2b

Defect ID: DEFECT000279687	Technical Severity: Medium
Summary: Switch panic after detecting termination of process webd:1130	
Symptom: Perform multiple configdownload through DCFM or CLI can trigger memory issues with webd. most time webd will restart and at time this could trigger switch panic.	
Feature: Field Escalation	Function: Web Management
Probability: Low	
Found in Release: FOS6.2.1	Service Request ID: 416939

Defect ID: DEFECT000282591	Technical Severity: Medium
Summary: Prevent loading unsupported versions FOS 6.2.0, 6.2.1, 6.2.2 on Brocade 5470	
Symptom: Brocade 5470 is not supported with FOS 6.2.1x, v6.2.2x, if customer load these code, the switch could be unusable. Change code to block code load to these releases onto Brocade 5470	
Workaround: Do not load this unsupported releases on Brocade 5470	
Feature: Embedded Platform Services	Function: Balzer3
Probability: High	
Found in Release: FOS6.2.1	

Defect ID: DEFECT000282595	Technical Severity: Medium
Summary: Reduce compact flash usage for 4G embedded platforms	
Symptom: After code upgrade to FOS 6.2.x on 4G embedded platforms, there isn't much room left for switch to operate safely. If there is core dump, switch compact flash could get full and result in switch cannot boot up due to corrupted file system etc.	
Feature: Field Escalation	Function: EMBEDDED DRIVER
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000285251	Technical Severity: Medium
Summary: DPC Online event is not delivered to storage application due to a timer issue	
Symptom: DPC-0 Online is not delivered to Storage Application. This applies to FA4-8 and AP7600 only.	
Feature: FA4-18 Platform Services	Function: Blade FOS SW
Probability: High	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000285372	Technical Severity: Medium
Summary: VI/VTs goes OFFLINE post a DPC crash.	
Symptom: In a rare DPC crash case, RSCN was not sent out in time, caused VI/VT goes offline. This is limited to FA4-18 and AP7600 platforms.	
Feature: FA4-18 Platform Services	Function: 1250: OS SUPPORT
Probability: Medium	
Found in Release: FOS6.4.0	

Closed with Code Change Defects in Fabric OS v6.2.2a

This section lists defects closed in Fabric OS v6.2.2a. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000273514	Technical Severity: High
Summary: FC FastWrite host cannot see target after target port bounce due to cam setup problem on backend port used by FC FastWrite	
Symptom: Not able to recover FC FastWrite paths after device maintenance was performed, or remote target port is bounced.	
Feature: Field Escalation	Function: FCIP Flipper/ASIC
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 410681

Defect ID: DEFECT000274208	Technical Severity: High
Summary: After upgrade to FOS v6.2.x, 4G AP switches or blades observe credit problem on virtual channel 0	
Symptom: After upgrading to FOS v6.2.x, customers may experience frame drops on SAS (7600/FA4-18) applications. FCIP tunnel does not come up on 7500/FR4-18i, and FC FastWrite observes host cannot see target on 7500/FR4-18i. This defect impacts multiple 4G AP platforms.	
Workaround: POR of pizza box; or slotpower off/on of AP blade, POR chassis.	
Feature: Field Escalation	Function: ASIC Driver
Probability: High	
Found in Release: FOS6.2.1	Service Request ID: 412817
Where Else Fixed: FOS6.3.0 c	

Defect ID: DEFECT000277444	Technical Severity: High
Summary: Switch may panic after executing fcplunquery or iscsicfg CLI command for tgt entity on FC4-16IP.	
Symptom: FCPd termination occurred if PRLI or Report LUN query timeout during fcplunquery/iscsicfg CLI and LOGO response comeback without a message queue to process it. This only impacts FOS v6.2.2 and FOSv6.3.0c	
Feature: FC Services	Function: FCP
Probability: Low	
Found in Release: FOS6.4.0	

Defect ID: DEFECT000260572	Technical Severity: Medium
Summary: Zone changes of Fabric Class does not work	
Symptom: 'Zoning Changes' of 'Fabric class areas' in fwconfigure does not Function correctly	
Feature: Fabric Infrastructure	Function: Fabric Watch
Probability: Low	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.2a

Defect ID: DEFECT000263500	Technical Severity: Medium
Summary: After using ipaddrset, incorrect CP hostname is displayed on standby CP	
Symptom: Login prompt of StandbyCP show incorrectly after set Host name of CP Blade by ipaddrset - cp command	
Feature: Field Escalation	Function: OS: Infrastructure
Probability: High	
Found in Release: FOS6.2.1	Service Request ID: 399361

Defect ID: DEFECT000268665	Technical Severity: Medium
Summary: During reboot, the NPIV device is sending the explicit logout. Switch does not clean up route properly .	
Symptom: NPIV tape devices may not be seen by any of the hosts	
Feature: FC Services	Function: NPIV
Probability: Low	
Found in Release: FOS6.3.0	Service Request ID: 405453

Defect ID: DEFECT000270683	Technical Severity: Medium
Summary: LDAP 2008 support	
Symptom: User name/password authentication may fail.	
Feature: FOS Security	Function: LDAP
Probability: Low	
Found in Release: FOS6.4.0	

Defect ID: DEFECT000272635	Technical Severity: Medium
Summary: After setting the SNMPv3 by "snmpconfig --set snmpv3", the "snmp.snmpv3Keys.*.usmPrivKeySize:" parameter does not begin from a new line	
Symptom: switch failed configDownload with following message: snmp.snmpv3Usm.0.usmPrivProtocol:6 Invalid Value. Process function of configdownload failed for filter snmp, lrc = -1	
Feature: Field Escalation	Function: SNMP
Probability: High	
Found in Release: FOS6.2.1	Service Request ID: 405179

Defect ID: DEFECT000274882	Technical Severity: Medium
Summary: DCX doesn't output FW-1003/FW-1004 after hafailover/reboot if user sets fwsettocustom.	
Symptom: DCX could not output FW-1003/FW-1004 after hafailover/reboot if user sets the fwsettocustom. This cause customer does not get notified on temperature etc event change when it's over threshold value.	
Feature: Field Escalation	Function: High Availability
Probability: High	
Found in Release: FOS6.2.2	Service Request ID: 413945

Closed with Code Change Defects in Fabric OS v6.2.2a

Defect ID: DEFECT000277671	Technical Severity: Medium
Summary: FW-1434 message when systemverification or portloopbacktest run on DCX	
Symptom: During diag test, switch report: 2009/12/02-15:02:50, [FW-1434], 5, SLOT 7 FID 128, WARNING, sw0, Switch status change contributing factor Blade: 1 blade failures (MARGINAL). Once diag test complete, fabric watch reports switch is healthy.	
Feature: Field Escalation	Function: Management Services
Probability: High	
Found in Release: FOS6.2.2	Service Request ID: 413595

Closed with Code Change Defects in Fabric OS v6.2.2

This section lists defects closed in Fabric OS v6.2.2. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000263579	Technical Severity: Critical
Summary: Switch panic occurred when management application performed repeat FCP LUN emulation queries through SMI interface or application polling a switch that had password changed multiple times.	
Symptom: Switch panic is experienced. Switch console logs Out of Memory kill.	
Workaround: Disable SMI agents.	
Feature: Field Escalation	Function: Panic / OOM
Probability: High	
Found in Release: FOS6.2.1	Service Request ID: 399773
Where Else Fixed: FOS5.3.2 c, FOS6.1.2 c, FOS6.2.1 b, FOS6.3.0 a	

Defect ID: DEFECT000265272	Technical Severity: Critical
Summary: Brocade 48000 with FR4-18i cannot see new device across LSAN after upgrade from FOS v5.x non-disruptively all the way to FOS v6.2.x.	
Symptom: Customer unable to bring new devices on line, bounce host port causes path lose between host and target. internal raslog has: [BL-5238], , Pinball Consistency check failure: error = -2, rsc = 1, data1 = -1, data2 = 11, OID:0x43310881, marathon_fcr.c, line: 2296, comp:emd, ltime:2009/09/17-18:47:02:676934; This only applies 4G routers and problem only shows after upgrade to FOS v6.2.x.	
Feature: Field Escalation	Function: ASIC Driver
Probability: High	
Found in Release: FOS6.2.0	Service Request ID: 402497
Where Else Fixed: FOS6.3.0 c	

Defect ID: DEFECT000270541	Technical Severity: Critical
Summary: On DCX, FCR fails to route traffic on 8G EX ports after code upgrade from FOS v6.1 to FOS v6.2, followed by hafailover and ports activities	
Symptom: DCX running FOS v6.1 with 8G EX ports (Integrated routing, IR) as pre-condition, upgrade to FOSv6.2 based code, if there is additional hafailover, then add new device, bounce device ports could trigger route problem, cause host cannot see device.	
Feature: Field Escalation	Function: FCR
Probability: High	
Found in Release: FOS6.2.0	Service Request ID: 409197
Where Else Fixed: FOS6.3.0 c	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000260338	Technical Severity: High
Summary: After blade fault, port was taken off line at asic level but offline SCN was not send to applications such as routing module, fspfd, fabricd which created an inconsistent view between application and kernel on the port state of the faulted blade.	
Symptom: After a blade fault, a replacement blade would fault due to frame count mismatch during POST, as there are still frames sent to offline port by upper layer application, fabric unstable as fabricd attempts to build fabirc through offline port, and hosts connected to the replacement blade have problem logging back into the farbic with "Switch not ready for F or L port" message.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 391827

Defect ID: DEFECT000262333	Technical Severity: High
Summary: SFP power supply values are not displayed correctly after doing a non-disruptive firmware upgrade to FOS v6.2.1 or FOS v6.3.0	
Symptom: SFP voltage may show incorrect values	
Workaround: Executing the same command again to get the correct values.	
Feature: 8G Platform Services	Function: FOS Kernel Drivers
Probability: Medium	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.2.1 a, FOS6.3.0 a	

Defect ID: DEFECT000261125	Technical Severity: High
Summary: In a large fabric with 50+ switches, firmware download (HCL) on Brocade DCX failed on the standby CP.	
Symptom: In a larget fabric with 50+ switches, non-disruptive Firmwaredownload may fail on a standy CP of a DCX switch.	
Workaround: Run firmwaredownload again.	
Feature: FIRMWARE DOWNLOAD	Function: Firmware Download
Probability: Low	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.3.0 b	

Defect ID: DEFECT000261421	Technical Severity: High
Summary: Detected rolling reboot on Brocade DCX-4S downgrade firmware from FOS v6.3.x to FOS v6.2.	
Symptom: Detected termination of ipsd with FFDC in Brocade DCX-4S after download, This only happens with DCX-4S between FOS v6.3.x and FOS v6.2.x.	
Feature: Striker/Spike Platform Services	Function: Spike Platform Module
Probability: Low	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000245512	Technical Severity: High
Summary: Brocade 7500 and FR4-18i VE port doesn't recover after WAN issues.	
Symptom: Device connectivity across the FCIP link will be lost. The credit information in the portshow of the FCIP tunnel will show a negative credit number (a very large number of credits queued.)	
Feature: Field Escalation	Function: FCIP
Probability: Low	
Found in Release: FOS6.1.0	Service Request ID: 372699
Where Else Fixed: FOS6.3.0, FOS6.1.2 c, FOS6.2.1 a	

Defect ID: DEFECT000265158	Technical Severity: High
Summary: Under very uncommon fabric watch setting, fabric watch daemon can crash.	
Symptom: If fwalarms is turned off and Errlog is turned on in fabric watch configratuion, fabric watch daemon can crash and lead to switch panic.	
Workaround: In the threshold alarm matrix configuration for all port related thresholds, disable ErrLog and Port Fencing (using fwconfigure) this will avoid the above functions from being called (on any threshold events) and leaking or enable fwalarmsfilterset	
Feature: Field Escalation	Function: Panic / OOM
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 398779

Defect ID: DEFECT000262247	Technical Severity: High
Summary: Zoning fails with "Transaction Commit failed. Loss of an E-port to a neighboring Mi10k in the middle of a zone push operation caused the zoning request to fail.	
Symptom: Zoning fails with "Transaction Commit failed. Reason code 2 (26) - "Aca Was Rejected: Remote Switch Busy, Retry in a few seconds"	
Feature: FC Services	Function: Zoning
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 396077
Where Else Fixed: FOS6.3.0 a	

Defect ID: DEFECT000261797	Technical Severity: High
Summary: Brocade SMI failed to discover all switches over EX port	
Symptom: After hafaifover, application fails to discover some switches over EX port due to , SMI reports "LOGIN FAILED" after GPL2 query targeted to translate domain is rejected.	
Feature: Field Escalation	Function: FCR
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 392369
Where Else Fixed: FOS6.2.1 a, FOS6.3.0 b	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000254576	Technical Severity: High
Summary: Brocade FR4-18i heartbeat dead causes reboot.	
Symptom: Processor on FR4-18i blade reboots while traffic is running over FCIP links. May cause CP failover to take place, only traffic on the FR4-18i blade is disrupted.	
Feature: Field Escalation	Function: FCIP Flipper/ASIC
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 374539
Where Else Fixed: FOS6.3.0 a	

Defect ID: DEFECT000269315	Technical Severity: High
Summary: Switch panic occurred when 3rd party management application performed repeat FCP LUN emulation queries.	
Symptom: When a 3rd party device gives a bad response to a FCP LUN request, or does not respond at all, FCPD will retry query and stuck the thread. Any new FCP LUN request that comes in from management application will spawn a new thread to handle it. Eventually, FCPD spawns up to the maximum number of allowed threads and the switch panics.	
Feature: Field Escalation	Function: Fabric Services
Probability: Low	
Found in Release: FOS6.2.1	Service Request ID: 407027
Where Else Fixed: FOS6.3.0 c	

Defect ID: DEFECT000264566	Technical Severity: High
Summary: Switch panic triggered by size-64 kernel message buffer being used up in virtual fabric with logical ISL configured	
Symptom: Switch panic will be observed. Configuration requires VF with LISL configured. Prior to panic, cat /proc/slabinfo as root will show a large number on size-64 block: slabinfo: size-64 7583624 7583624	
Workaround: Configure only DISLs between switches.	
Feature: Logical Fabric	Function: Kernel Driver
Probability: High	
Found in Release: FOS6.2.1	
Where Else Fixed: FOS6.2.1 b, FOS6.3.0 a	

Defect ID: DEFECT000261854	Technical Severity: High
Summary: Toggle FMS mode, hafaifover triggers IFCC's on mainframe due to frame drops on switch	
Symptom: With FMS mode is enabled, and then disabled, hafaifover will toggle online ports and result in traffic disruption	
Workaround: Do not toggle FMS mode without reset ASIC	
Feature: 8G ASIC Driver	Function: C2 ASIC driver
Probability: High	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000261638	Technical Severity: High
Summary: TI zones become disabled when telnet times out following TI zone change	
Symptom: Set telnet timeout to 1 minute, logout/login to have timeout take effect, created new TI zone, waited for telnet session to timeout, log back into switch and issue cfsave; cfsave actually pushes data, which shouldn't occur as the session timed out. Without properly terminating stale transaction before processing a new TI zone can result in erroneous TI zone properties list and trigger other fabric-wide instability events such as no route, rtwr errors in fabric etc.	
Feature: Field Escalation	Function: Fabric Services
Probability: Medium	
Found in Release: FOS6.1.1	Service Request ID: 394553

Defect ID: DEFECT000263397	Technical Severity: High
Summary: Brocade DCX running FOS v6.2.1 & M6140 running M-EOS v9.9.0 - Nameserver database counts do not match for FOS and M-EOS switches in same fabric	
Symptom: Host cannot see device due to name server has no entries about the device. This happens when there is a HBA capable of RHBA command and EOS (McData) switch in the same fabric. FOS v6.2.1 has a fix to cover new installation; FOS v6.2.1a patch cover customer who has this problem and attempt to upgrade to recover.	
Feature: FC Services	Function: FDMI
Probability: Medium	
Found in Release: FOS6.2.1	Service Request ID: 398757
Where Else Fixed: FOS6.2.1 a, FOS6.3.0 a	

Defect ID: DEFECT000261418	Technical Severity: High
Summary: Panic Reboot on Brocade DCX after using fwshow command.	
Symptom: Switch reboot occurs after running the command "fwshow --disable --port".	
Feature: Field Escalation	Function: Management Services
Probability: High	
Found in Release: FOS6.2.0	Service Request ID: 394347
Where Else Fixed: FOS6.2.1 b, FOS6.3.0 b	

Defect ID: DEFECT000268706	Technical Severity: High
Summary: Evmd crash causing switch to assert/reboot at hours after lscfg --delete with proxy client	
Symptom: Switch asserts and reboots 11 hrs after lscfg --delete when running SMI proxy client or an SMI-like interface. This happens when some timer events were processed in the context of a deleted logical switch.	
Feature: Fabric Infrastructure	Function: Mgmt Server
Probability: High	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000262891	Technical Severity: High
Summary: Ports go offline with link reset	
Symptom: High CPU load from external SAN management application such as doing supportsave from Brocade DCFM is causing laser flt / link reset on port.	
Feature: 4G ASIC Driver	Function: PORT
Probability: High	
Found in Release: FOS6.2.1	Service Request ID: 397469
Where Else Fixed: FOS6.2.1 a, FOS6.3.0 a	

Defect ID: DEFECT000264398	Technical Severity: High
Summary: Common Access Layer Daemon (CALD) panics due to segmentation fault	
Symptom: A fabric that contains switches running firmware older then FOS v5.2.x could send an internal query to directors that was not properly set up to handle switches with more then 256 ports. This query can result in the switch with greater then 256 ports hitting a segmentation fault.	
Feature: Field Escalation	Function: Management Embedded
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.2.1 b, FOS6.3.0 b	

Defect ID: DEFECT000263944	Technical Severity: High
Summary: Link timeout on switch port connected to AG, during hafailover/reboot of AG switch with rlsdisable=0	
Symptom: Customer observe traffic disruption in AG setup during hafailover when RLS is enabled. RLS is used to gather remote link statistics from device.	
Workaround: Configure the settings to disable RLS: Configure -> System services -> Disable RLS probing	
Feature: FC Services	Function: FCP
Probability: Medium	
Found in Release: FOS5.3.2	

Defect ID: DEFECT000261990	Technical Severity: High
Summary: Switchstatus Function on Brocade DCX does not show correct status when core blade is powered off	
Symptom: Switchstatusshow in CLI reports 'Core Blades monitor' HEALTHY even after power off of the Core Blade.	
Feature: Field Escalation	Function: Management Services
Probability: High	
Found in Release: FOS6.2.0	Service Request ID: 395601

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000250790	Technical Severity: High
Summary: RTWR error when going to translate domain	
Symptom: Numerous RTWRs will be observed. Configuration specific condition happens when switch-to-switch NS frames are intended for the LE domain but use any valid F/E-port vs using the LE port ID. Frame will be dropped vs being accepted or rejected, which results in repeated RTWR attempts.	
Feature: Field Escalation	Function: FCR
Probability: Medium	
Found in Release: FOS6.1.0	Service Request ID: 378469
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000255461	Technical Severity: Medium
Summary: 4024 AG may login to DCX with wrong pwwn	
Symptom: switchshow on the switch may display wrong PWWN	
Workaround: reboot AG	
Feature: Field Escalation	Function: Access Gateway
Probability: Low	
Found in Release: FOS6.1.0	Service Request ID: 384107
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000262694	Technical Severity: Medium
Summary: SwFwEPortUtil and swFwEPortPktl changed between SW_v5_7 to SW_v5_8 MIB.	
Symptom: SNMP manager gets wrong MIB info from switch running Fabric OS 6.1.x.	
Feature: Field Escalation	Function: Management Services
Probability: Medium	
Found in Release: FOS6.2.1	Service Request ID: 395011
Where Else Fixed: FOS6.3.0 b	

Defect ID: DEFECT000261707	Technical Severity: Medium
Summary: Observed memory leak when multiple simultaneous MIB WALK is performed.	
Symptom: Small memory leak may happen when multiple simultaneous MIB WALK query is performed.	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: Low	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.2.1 a	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000237999	Technical Severity: Medium
Summary: Ethernet hostname setting from active CP does not get copied over to the standby CP.	
Symptom: Configuring ipaddress of CP1 blade from CP0, after hafailover the hostname portion of the configuration is no longer there for CP1. Other IP configuration information remains intact.	
Workaround: Run the ipaddrset command again from CP1 to configure CP1 hostname.	
Feature: Field Escalation	Function: High Availability
Probability: High	
Found in Release: FOS5.3.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000264578	Technical Severity: Medium
Summary: Supportsave did not remove ffdc files. Continued to get ffdc files warning	
Symptom: Supportsave command did not clear FFDC files. FFDC file warning message persisted until a second support save was taken.	
Feature: RAS	Function: FFDC/Supportsave
Probability: Low	
Found in Release: FOS6.3.0	Service Request ID: 399193
Where Else Fixed: FOS6.3.0 b	

Defect ID: DEFECT000237767	Technical Severity: Medium
Summary: Sequence of creating two TI zones, not saving the change and then modifying the attributes with the "zone -add" command results in misconfigured attributes that will cause software verify on remote switches when changes are committed.	
Symptom: Remote switches will trigger software verify and the TI zone attributes will not be properly configured.	
Workaround: Other methods of creating TI Zones and modifying the definitions work seamlessly. Its just this odd set of steps which produce the failing condition. When creating multiple TI zones, they should be saved before modifying the attributes. Can clean up probl	
Feature: FC Services	Function: Zoning
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000263051	Technical Severity: Medium
Summary: Port 254 experiences problem and/or CPs reports synchronization error while overall system HA maintain in sync.	
Symptom: When port 254 is used in directors in non-FICON setup, after multiple hafailover, port 254 may lose its name server entry and sometimes, user experience FSS-1009 and then repeat logs of "[FSS-1001], XXX, SLOT 6 CHASSIS, WARNING, XXX, Component (swc) dropping HA data update" warning message in the RAS log.	
Workaround: Reboot standby CP to force a re-synchronization when message is observed.	
Feature: Field Escalation	Function: High Availability
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 397093

Defect ID: DEFECT000241927	Technical Severity: Medium
Summary: Switchstatusshow output did not get updated after the faulty blade was brought back up ENABLED and online.	
Symptom: Switchstatusshow output did not get updated after the faulty blade was brought back up ENABLED and online.	
Feature: Fabric Infrastructure	Function: Fabric Watch
Probability: Medium	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000235486	Technical Severity: Medium
Summary: Urouteshow will lag for several seconds at a time while displaying the route info	
Symptom: A 2-4 second lag may be noticed when running the CLI urouteshow. This lag will be longer on products with larger port counts such as the Brocade DCX.	
Feature: Logical Fabric	Function: FSPF
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000261663	Technical Severity: Medium
Summary: Clean up printf to eliminate error and error message: "ssnGet: Unable to get WWN info.sw=0 rc=-5"	
Symptom: The following message may pop up to console while firmware is in process of committing: "ssnGet: Unable to get WWN info.sw=0 rc=-5".	
Feature: System Controls/EM	Function: DCX/DCX-4S
Probability: Medium	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000261132	Technical Severity: Medium
Summary: In a large fabric with more than 56 switches, edge Brocade DCX panics due to termination of msd during fabric reconfiguration.	
Symptom: While doing switchdisable; agshow; switchenable loop on a large fabric with AG device, switch panics.	
Feature: Fabric Infrastructure	Function: MANAGEMENT SERVER
Probability: Low	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.2.1 a, FOS6.3.0 b	

Defect ID: DEFECT000264871	Technical Severity: Medium
Summary: NS does not send subsequent PLOGI ACC following a sequence where NPIV device sends LOGO before link down.	
Symptom: NPIV tape devices may not be seen by any of the hosts	
Feature: FC Services	Function: Name Server
Probability: Medium	
Found in Release: FOS6.3.0	Service Request ID: 397897
Where Else Fixed: FOS6.3.0 a	

Defect ID: DEFECT000237453	Technical Severity: Medium
Summary: Chassisname is not updated in errshow log	
Symptom: After chassisname changes, errorshow log still shows the original chassis name.	
Feature: Field Escalation	Function: OS: Infrastructure
Probability: Low	
Found in Release: FOS6.1.0	

Defect ID: DEFECT000262225	Technical Severity: Medium
Summary: 96 bit licenses disappear from Brocade 5300 when no changes are made to switch.	
Symptom: Due to race condition in code, 96 bit licenses disappear even when there are no fabric changes in the environment and there were no configupload/download changes.	
Feature: Field Escalation	Function: OS: Infrastructure
Probability: Low	
Found in Release: FOS6.1.1	Service Request ID: 392061
Where Else Fixed: FOS6.2.1 a	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000257986	Technical Severity: Medium
Summary: In FOS 6.2, OID for connUnitType no longer returns the correct access gateway mode status	
Symptom: Customer upgraded from FOS v6.1.1d to 6.2.0f. Switch returns a different value for connUnitType in 6.2.0f	
Feature: Field Escalation	Function: Management Services
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 386337
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000257700	Technical Severity: Medium
Summary: Segmentation fault (core Dumped) after configdefault in LS	
Symptom: In logical switch setup: configdefault triggers core file. No other side effect noticed and this only happens with FOS v6.2.1.	
Feature: Infrastructure	Function: Config Download
Probability: Low	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.2.1 a	

Defect ID: DEFECT000250536	Technical Severity: Medium
Summary: 3rd party target FLOGIN fails with a non-FC-standard value (0x0000EF) and cannot be seen in name server. This happens when switch has port alpa also enabled in IM2 mode.	
Symptom: Host cannot see device due to device login failure to name server.	
Workaround: Disable port alpa for device to login to nameserver: portcfgalpa <portnum> 0	
Feature: 4G Platform Services	Function: FOS Kernel Drivers
Probability: Low	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.2.1 a	

Defect ID: DEFECT000247754	Technical Severity: Medium
Summary: Switch gets nsd panic when connected to 3rd party switch with interop mode 3 with FOS v6.2.	
Symptom: Customer may notice NSd panic when 3rd party switch sends invalid frames.	
Feature: Field Escalation	Function: Fabric Services
Probability: High	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0 a	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000243402	Technical Severity: Medium
Summary: FDMI: fdmid crashes when a brocade HBA with virtual ports is connected to a Brocade 48000.	
Symptom: Fdmid crashes and HA failover occurs.	
Workaround: Logout all the devices that have registered their HBA info and log them in after the fabric is stable.	
Feature: FC Services	Function: FDMI
Probability: High	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000253546	Technical Severity: Medium
Summary: Web GUI issue - when running the Zone admin, device show up on wrong port	
Symptom: When port index and port address of the given port is different, end device will be seen connected to a different port(U port) than the original one (F port). This issue will be seen in 48-port blade where there is port address sharing.	
Feature: WebMgmt	Function: Zone Admin
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 381185

Defect ID: DEFECT000270309	Technical Severity: Medium
Summary: Running FOS commands give error: shmInit: shmget failed: No space left on device	
Symptom: Unable to execute FOS commands on default switch after performing multiple cfgenable with TI zones	
Feature: FC Services	Function: Name Server
Probability: Low	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.3.0 c	

Defect ID: DEFECT000234893	Technical Severity: Medium
Summary: SNMP: The swNs Table does not list all the name server entries.	
Symptom: SwNs Table shows one less entry than the actual number of devices. This is the first entry shown in "nsallshow" CLI command.	
Feature: Mgmt Embedded - SNMP	Function: Name Server
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000263868	Technical Severity: Medium
Summary: During firmware download, observe Assert and panic " file = zone_rcs.c, line = 177"	
Symptom: Standby CP reboot due to assert after firwmaredownload and recovers, no functional impact observed	
Feature: FC Services	Function: Zoning
Probability: Low	
Found in Release: FOS6.3.1	

Defect ID: DEFECT000263889	Technical Severity: Medium
Summary: Brocade200E and 4G based embeded platform speed negotiation fails when lock port as Gport	
Symptom: Switch port can not come on line when reboot connected server sometimes. This applies to Brocade200E and 4G embeded platforms only.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.2.1	Service Request ID: 400493

Defect ID: DEFECT000254846	Technical Severity: Medium
Summary: During back up, observed internal unexpected event after bouncing one of the two ISLs.	
Symptom: Backup job stopped for a long time when running through Brocade Encryption Switch / FS8-18 blade after bouncing 1 of the 2 connected ISLs.	
Feature: Data Security	Function: Tape Encryption
Probability: Low	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000264662	Technical Severity: Medium
Summary: Peak data rate is reported as 4096 MB/sec for 2 Gbps port, which is not possible	
Symptom: Occasionally due to corner case such as port stats just being cleared in lower level driver code, and upper mgmt application can come in and get invalid data. Invalid data is kept for the lifetime of the switch. With this code change the peek rate is fixed and it is also reset on hourly basis and not kept for switch's life time.	
Feature: FOS Platform Services	Function: FOS Kernel Drivers
Probability: Low	
Found in Release: FOS6.1.1	

Defect ID: DEFECT000253083	Technical Severity: Medium
Summary: Transient detected error on internal link causes blade to be faulted on 8G port blades.	
Symptom: Port blade will be faulted with "reason=5" or "reason=4". This applies to 8G port blades only.	
Workaround: Slotpoweroff and slotpoweron clears the fault	
Feature: 8G ASIC Driver	Function: C2 ASIC driver
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 378361
Where Else Fixed: FOS6.3.0 a	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000264880	Technical Severity: Medium
Summary: Brocade 200E and some 4G embedded platforms supported in FOS v6.2.1 such as Brocade 4024 has incomplete supportSave.	
Symptom: *SSHOW_PORT file fail to gather any information due to some embeded switches did not have some scripting language released with it.	
Workaround: Run individual command such as portstatsshow on switch	
Feature: Field Escalation	Function: RAS Logging / Tracing
Probability: High	
Found in Release: FOS6.2.1	Service Request ID: 401471

Defect ID: DEFECT000257211	Technical Severity: Medium
Summary: Weblinker.fcgi terminates several times during third party host scan.	
Symptom: When third party host scan was run, http daemon died and restart several times may trigger temporary management service interruption.	
Feature: Field Escalation	Function: Web Management
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 386535
Where Else Fixed: FOS6.3.0 b	

Defect ID: DEFECT000261755	Technical Severity: Medium
Summary: Brocade 5300 was faulted when core Brocade DCX with single CP was rebooted.	
Symptom: While doing a disruptive CP reboot on a director class switch (rebooting active CP when no standby CP is present), if a simultaneous fabric update causes a large volume of F-Class traffic, potential exists for an edge switch to be faulted due to lack of response from the core director.	
Workaround: No	
Feature: Field Escalation	Function: ASIC Driver
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 394851

Defect ID: DEFECT000257186	Technical Severity: Medium
Summary: During switch bruign up from power up, reboot or hafailover, daemons fail to load and ffdc HAM-1008 and HAM-1007 are observed.	
Symptom: Daemons fail to startup at early stage of switch coming up, and switch will auto rebooted with: [HAM-1007], 39/8, SLOT 4 FFDC CHASSIS, CRITICAL,	
Feature: RAS	Function: LOG
Probability: Low	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000254565	Technical Severity: Medium
Summary: After upgrade to FOSv6.x, script fails due to rsh switch with user account credential and execute command "ifmodeshow" output errors and inaccurate output.	
Symptom: Telnet works, rsh with root credential work, only rsh using user credential gets "ifmodeshow eth0": ioctl(ETHTOOL_GSET) failed.	
Workaround: Set suid permissions for ethmode: chmod +s /fabos/libexec/ethmode	
Feature: Field Escalation	Function: OS: Linux
Probability: Medium	
Found in Release: FOS6.0.1	Service Request ID: 382985

Defect ID: DEFECT000262238	Technical Severity: Medium
Summary: Switchname does not match hostname of CP on a director.	
Symptom: Customer states that telnet banner and switchname are not consistent after a new switchname is defined without doing multiple "hafailover" commands. This issue also occurs after a standby CP is replaced where the new CP hosts file doesn't get synchronized with active without 2 "hafailovers".	
Workaround: Workaround is done by using the "hostname xyz" command when a "switchname xyz" is used. Also, this issue does not occur with SSH as it does not use the banner.	
Feature: Infrastructure	Function: Other
Probability: High	
Found in Release: FOS6.3.0	Service Request ID: 393219

Defect ID: DEFECT000260552	Technical Severity: Medium
Summary: Fabric Watch messages logged with values above 100%.	
Symptom: Fabric Watch FW-1186 & FW1190 messages are being logged with percentages above 100%, which is not possible. This is likely to happen during the first Fabric Watch polling cycle after slotstatsclear command has been issued.	
Feature: Field Escalation	Function: Management Services
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 384439

Defect ID: DEFECT000258330	Technical Severity: Medium
Summary: EX Port Rejected Fabric Binding [FCR-1077] for Edge Fabric in IM3	
Symptom: Fabric binding will not work in 239 domain mode in IM3 with FCR	
Feature: 8G FCR	Function: FCR Security
Probability: Low	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000264548	Technical Severity: Medium
Summary: Cald failed, but no failover happened – cald stuck as <defunct>	
Symptom: Cald panic occurred at customer site, CPs became out of sync, and a manual reboot was required of the active CP to recover. The ps output still contains cald, however it is in a <defunct> state. 4 0 30056 2497 16 0 0 0 - Z ? 0:01 _ cald <defunct>	
Workaround: Issue is a race condition. once hit, need to manually reboot to recover	
Feature: Field Escalation	Function: Management Services
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 400805

Defect ID: DEFECT000262065	Technical Severity: Medium
Summary: Switch panic after fwd terminated exit code:134, exit sig:17, parent sig:0	
Symptom: Customer's switch panic'd and rebooted after detecting: Detected termination of fwd:1153 (1) exit code:134, exit sig:17, parent sig:0; This happens rarely when IPC buffer is overrun on a busy system.	
Feature: Field Escalation	Function: Panic / OOM
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 395623

Defect ID: DEFECT000265144	Technical Severity: Medium
Summary: SwFCPortTxType MIB does not report the type of CoreBlade's ICL port correctly.	
Symptom: swFCPortTxType MIB reports ICL ports as: swFCPortTxType.385 unknown(1)	
Feature: Field Escalation	Function: SNMP
Probability: High	
Found in Release: FOS6.2.1	Service Request ID: 402391

Defect ID: DEFECT000269173	Technical Severity: Medium
Summary: Configdownload incorrectly removes license keys from switch.	
Symptom: Configdownload removes license keys from a new replacement switch. This only applies to FOS v6.2.x code	
Workaround: Re-add the lost licenses.	
Feature: Field Escalation	Function: OS: Infrastructure
Probability: Low	
Found in Release: FOS6.2.1	

Defect ID: DEFECT000248759	Technical Severity: Medium
Summary: Server is unable to see some devices on some ports connected to 48-port blades	
Symptom: Devices does not see each other with 48-port blades on shared primary ports using (domain, port) session based zoning.	
Feature: FC Services	Function: Name Server
Probability: Low	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.2

Defect ID: DEFECT000253795	Technical Severity: Medium
Summary: Brocade FS8-16 come up faulty (76) after firmwaredownload -sf and reboot both CPs at the same time.	
Symptom: Blade is faulted and need to be reseated.	
Feature: Data Security	Function: Platform
Probability: Low	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000252641	Technical Severity: Medium
Summary: Configdownload doesn't load the tstimezone info.	
Symptom: Setup tstimezone, upload the configuration to a ftp server. After changing the tzh and tzm in the config.txt file to a new value, and running configdownload to put the the config.txt file on the switch. Issue tstimezone command, the timezone is not changed.	
Workaround: Setup tstimezone through CLI.	
Feature: Fabric Infrastructure	Function: Time Server
Probability: High	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000264381	Technical Severity: Medium
Summary: Firmware restore in not working in FOS v6.2.0 (when auxillary partition contains FOS v6.3.0x).	
Symptom: Perform firmwaredownload -sn (n for disable autocommit) and reboot, now the new firmware image is active but the secondary image has the old image (not yet committed). At this point run firmwarerestore to revert back to the old image, it does not work. Only applies between FOS v6.3.x and FOS v6.2.x	
Workaround: Invoke a manual reboot.	
Feature: Infrastructure	Function: Firmware Download
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000244617	Technical Severity: Medium
Summary: Same device (WWN) is visiable in more than 2 fabric using VF function and VT not getting imported	
Symptom: AIX host is seen twice in 2 different fabric where as it is connected to only one fabric	
Feature: SAS	Function: VI
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1b

This section lists defects closed in Fabric OS v6.2.1b. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000263579	Technical Severity: Critical
Summary: Switch panic occurred when management application performed repeat FCP LUN emulation queries through SMI interface or application polling a switch that had password changed multiple times.	
Symptom: Switch panic is experienced. Switch console logs Out of Memory kill.	
Workaround: Disable SMI agents.	
Feature: Field Escalation	Function: Panic / OOM
Probability: High	
Found in Release: FOS6.2.1	Service Request ID: 399773

Defect ID: DEFECT000261418	Technical Severity: High
Summary: Panic Reboot on Brocade DCX after using fwshow command.	
Symptom: Switch reboot occurs after running the command "fwshow -disable -port".	
Feature: Field Escalation	Function: Management Services
Probability: High	
Found in Release: FOS6.2.0	Service Request ID: 394347

Defect ID: DEFECT000264398	Technical Severity: High
Summary: Common Access Layer daemon (CALD) panics due to segmentation fault	
Symptom: A fabric that contains switches running firmware older than FOS v5.2.x could send an internal query to directors that was not properly set up to handle switches with more than 256 ports. This query can result in the switch with greater than 256 ports hitting a segmentation fault.	
Feature: Field Escalation	Function: Management Embedded
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000264566	Technical Severity: High
Summary: Switch panic triggered by size-64 kernel message buffer being used up in virtual fabric with logical ISL configured.	
Symptom: Switch panic will be observed. Configuration requires VF with LISL configured. Prior to panic, cat /proc/slabinfo as root will show a large number on size-64 block: slabinfo: size-64 7583624 7583624	
Workaround: Configure only DISLs between switches.	
Feature: Logical Fabric	Function: Kernel Driver
Probability: High	
Found in Release: FOS6.2.1	

Closed with Code Change Defects in Fabric OS v6.2.1a

This section lists defects closed in Fabric OS v6.2.1a. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000245512	Technical Severity: High
Summary: Brocade 7500 and FR4-18i VE port doesn't recover after WAN issues.	
Symptom: Device connectivity across the FCIP link will be lost. The credit information in the portshow of the FCIP tunnel will show a negative credit number (a very large number of credits queued.)	
Feature: Field Escalation	Function: FCIP
Probability: Low	
Found in Release: FOS6.1.0	Service Request ID: 372699
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000261797	Technical Severity: High
Summary: Brocade SMI failed to discover all switches over EX port	
Symptom: After hafailover, application fails to discover some switches over EX port due to , SMI reports "LOGIN FAILED" after GPL2 query targeted to translate domain is rejected.	
Feature: Field Escalation	Function: FCR
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 392369

Defect ID: DEFECT000262333	Technical Severity: High
Summary: SFP power supply values are not displayed correctly after doing a non-disruptive firmware upgrade to FOS v6.2.1 or FOS v6.3.0	
Symptom: SFP voltage may show incorrect values	
Workaround: Executing the same command again to get the correct values.	
Feature: 8G Platform Services	Function: FOS Kernel Drivers
Probability: Medium	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000262891	Technical Severity: High
Summary: Ports go offline with link reset	
Symptom: High CPU load from external SAN management application such as doing supportsave from Brocade DCFM is causing laser flt / link reset on port.	
Feature: 4G ASIC Driver	Function: PORT
Probability: High	
Found in Release: FOS6.2.1	Service Request ID: 397469

Closed with Code Change Defects in Fabric OS v6.2.1a

Defect ID: DEFECT000263397	Technical Severity: High
Summary: Brocade DCX running FOS v6.2.1 & M6140 running M-EOS v9.9.0 - Nameserver database counts do not match for FOS and M-EOS switches in same fabric	
Symptom: Host cannot see device due to name server has no entries about the device. This happens when there is a HBA capable of RHBA command and EOS (McData) switch in the same fabric.	
Feature: FC Services	Function: FDMI
Probability: Medium	
Found in Release: FOS6.2.1	Service Request ID: 398757

Defect ID: DEFECT000250536	Technical Severity: Medium
Summary: 3rd party target FLOGIN fails with a non-FC-standard value (0x0000EF) and cannot be seen in name server. This happens when switch has port alpa also enabled in IM2 mode.	
Symptom: Host cannot see device due to device login failure to name server.	
Workaround: Disable port alpa for device to login to nameserver: portcfgalpa <portnum> 0	
Feature: 4G Platform Services	Function: FOS Kernel Drivers
Probability: Low	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000257700	Technical Severity: Medium
Summary: Segmentation fault (core Dumped) after configdefault in LS	
Symptom: In logical switch setup: configdefault triggers core file. No other side effect noticed and this only happens with FOS v6.2.1.	
Feature: Infrastructure	Function: Config Download
Probability: Low	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000261132	Technical Severity: Medium
Summary: In a large fabric with more than 56 switches, edge Brocade DCX panics due to termination of msd during fabric reconfiguration.	
Symptom: While doing switchdisable; agshow; switchenable loop on a large farbic with AG device, switch panics.	
Feature: Fabric Infrastructure	Function: MANAGEMENT SERVER
Probability: Low	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1a

Defect ID: DEFECT000261707	Technical Severity: Medium
Summary: Observed memory leak when multiple simultaneous MIB WALK is performed.	
Symptom: Small memory leak may happen when multiple simultaneous MIB WALK query is performed.	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: Low	
Found in Release: FOS6.3.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000262225	Technical Severity: Medium
Summary: 96 bit licenses disappear from Brocade 5300 when no changes are made to switch.	
Symptom: Due to race condition in code, 96 bit licenses disappear even when there are no fabric changes in the environment and there were no configupload/download changes.	
Feature: Field Escalation	Function: OS: Infrastructure
Probability: Low	
Found in Release: FOS6.1.1	Service Request ID: 392061

Defect ID: DEFECT000263032	Technical Severity: Medium
Summary: Merging M6140 to an all FOS switch fabric causes FOS switch panic.	
Symptom: When merging a M6140 (IM3) to an all FOS fabric (IM3) caused software fault kernal panic, FFDC detected termination of nsd0:996 due to timing condition triggered NS and Zone deadlock.	
Feature: FC Services	Function: Zoning
Probability: High	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

This section lists defects closed in Fabric OS v6.2.1. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000225799	Technical Severity: High
Summary: Sshd allows admin login to execute root level Linux commands but not admin CLI commands	
Symptom: Admin CLI commands executed using login admin via ssh (through the FOS sshd daemon) fail with error: rbash: <admin level command>: command not found	
Workaround: A Workaround to facilitate execution of admin level CLI commands using ssh, is to use syntax similar to: ssh -l admin 192.168.1.12 "rbash --login -c 'switchshow'" Or if a command is needed that works on both older (correctly operating) FOS and the newer/affected FOS: ssh -l admin 192.168.1.12 "switchshow rbash --login -c 'switchshow'"	
Feature: Field Escalation	Function: Security
Probability: Medium	
Found in Release: FOS5.3.1	Service Request ID: 327181
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000236028	Technical Severity: High
Summary: In some rare scenarios, when HA Failover performed prior to Name Server being in sync, RSCNs were delivered	
Symptom: Extra RSCN was transmitted.	
Feature: FC Services	Function: Name Server
Probability: Low	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000239038	Technical Severity: High
Summary: Software was not enforcing a mandatory switch disable before configuring the backbone Fabric ID.	
Symptom: Software was not enforcing a mandatory switch disable before configuring the backbone Fabric ID.	
Feature: Field Escalation	Function: FCR
Probability: Low	
Found in Release: FOS6.1.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000240241	Technical Severity: High
Summary: Brocade Encryption Switch (BES) goes to faulty state after upgrading to FOS v6.2.0b from v6.2.0.	
Symptom: After firmwaredownload from 6.2.0 to a 6.2.0 patch build, BES switch may go faulty.	
Feature: Infrastructure	Function: Firmware Download
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 364969
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000243882	Technical Severity: High
Summary: High CPU load occurs and no commands can be run after Common Access Layer daemon (CALD) allocated shared memory is not released by applications.	
Symptom: Switch runs out of shared memory and many of the CLI command do not run and return with message: shmInit: shmget failed: No space left on device.	
Workaround: Run hafailover.	
Feature: Field Escalation	Function: OS: Infrastructure
Probability: Low	
Found in Release: FOS6.1.0	Service Request ID: 369837
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000246020	Technical Severity: High
Summary: Nameserver database counts do not match for FOS and M-EOSc switches in same fabric	
Symptom: In IM2, mixed fabric with over 500 devices, nameserver counts do not match for FOS and M-EOSc switches in the same fabric. M-EOSn count matches FOS nameserver count.	
Feature: FC Services	Function: FDMI
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000247148	Technical Severity: High
Summary: AG Fport may get disabled due to failed FLOGI if back to back FLOGIs are received from the host	
Symptom: Toggling the N-Port a few times in AG mode causes the crypto LUN to be stuck in "Not ready (LUN re-discovery)" state.	
Workaround: Switchdisable/switchenable the Brocade Encryption Switch (BES) or reboot the BES.	
Feature: Access Gateway Services	Function: Daemon
Probability: Medium	
Found in Release: FOS6.3.0	
Where Else Fixed:	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000247158	Technical Severity: High
Summary: Unlikely zone configuration entry can trigger lost of zone configuriton after firmware upgrading or switch panic after cfgenable.	
Symptom: A switch that has a zone object with extra ";" or -p flag of zone create does not error check for alphanumeric character can trigger unexpected event.	
Feature: FC Services	Function: Zoning
Probability: Low	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000248685	Technical Severity: High
Summary: FDMI Database information not showing proper information after disabling the port in AG that is connected to HBA.	
Symptom: Brocade_Software Identity instance for remaining node is missing in Brocade SMIA.	
Feature: FC Services	Function: FDMI
Probability: Low	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000249086	Technical Severity: High
Summary: Under stress test with switchdisable/switchenable all switches in fabric, observed verify and sometimes switch panic in RTE module	
Symptom: Observed VERIFY Failed expression: (cmd_rval.status != RTE_STAT_DPS_FULL)	
Feature: 8G ASIC Driver	Function: Routing
Probability: Medium	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000249647	Technical Severity: High
Summary: Small timing window exists where devices might send PLOGI earlier than route is setup and cause PLOGI drop in single switch fabric.	
Symptom: Host cannot talk to target.	
Feature: 8G Platform Services	Function: Routing
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 376065
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000251984	Technical Severity: High
Summary: Authentication is getting failed after 15 min if we configured external authentication like LDAP or Radius server	
Symptom: If external authentication mechanism like LDAP or RADIUS server was configured in the switch. After 15-20 user is not able to login using WT or webpage. It reports invalid password.	
Feature: Fabric Infrastructure	Function: Security-login
Probability: High	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000252179	Technical Severity: High
Summary: Persistent IU pacing Feature in 3rd party device trigger issues with tape emulation.	
Symptom: I/O timeouts reported on 3rd party system with tape emulation	
Workaround: Reset switches/blade to recovery FICON connectivity after Tunnel failure.	
Feature: FCIP	Function: FCIP I/O
Probability: Low	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000252471	Technical Severity: High
Summary: Firmwarecommit failed on Active CP with "missing /etc/fabos/skm/IngrianNAE.properties"	
Symptom: This problem is specific to Brocade Encryption Switch (BES) and FS8-18 blade while upgrade to FOS v6.2.0c or later patches: missing /etc/fabos/skm/IngrianNAE.properties Firmware commit operation failed on active CP - Primary filesystem is inconsistent. Run firmwarerestore to restore the original firmware, or contact your service provider for recovery. (0x25)	
Workaround: Execute the following commands on both Active and Standby CPs after the problem has occurred. cp /etc/fabos/skm/IngrianNAE.properties.template /etc/fabos/skm/IngrianNAE.properties firmwarecommit	
Feature: Infrastructure	Function: Firmware Download
Probability: High	
Found in Release: FOS6.2.0	Service Request ID: 380429
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000253986	Technical Severity: High
Summary: I/O can not resume when Jamming the status frame with IDLE with QoS enable.	
Symptom: If F port is in QoS mode, link reset did not load the buffers correctly and I/O can be disrupted.	
Feature: 8G ASIC Driver	Function: PORT
Probability: Low	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000254085	Technical Severity: High
Summary: Internal timing failure within HA failover can bring a port down.	
Symptom: Internal timing race-condition that can cause 1 or more F or E ports to be brought down, causing frame discards. The port will immediately be brought back online, automatically at the end of the HA or firmware upgrade operation.	
Feature: System Controls/EM	Function: PCI/I2C
Probability: High	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000254779	Technical Severity: High
Summary: Common Access Layer daemon (CALD) memory leak led to switch panic / fabric disruption.	
Symptom: While running management applications using SMI interface, switch experienced Out Of Memory condition resulting in switch panic and restart.	
Feature: Field Escalation	Function: Panic / OOM
Probability: Low	
Found in Release: FOS6.1.0	Service Request ID: 376973
Where Else Fixed: FOS6.3.0, FOS6.1.2 b	

Defect ID: DEFECT000228809	Technical Severity: Medium
Summary: Backport code to address various SNMP related issues.	
Symptom: a. The cpLastEvent Value will be shown incorrectly in the browser. b. The cpStatusChange trap is not sent to the trap recipients. c. There is incompatibility with client using older mibs (pre-FOS6.2.0 mib). d. swEndDeviceInvalidWrod mid returns "bad words" e. SNMP displays incorrect index value for atTable, ipTable and ipNetTodefia Table of MIB-2 f. mib fails to compile on 3rd party SAN Management Software (swPmgrEventType)	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: High	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000228996	Technical Severity: Medium
Summary: Brocade 200E and embedded switch with 256M compact flash reports disk usage is too high with FOS v6.2	
Symptom: Fabric watch marks switch as unhealthy and provides warning message about compact flash is 90% full after upgrade to FOS v6.2	
Feature: Infrastructure	Function: Firmware Download
Probability: High	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000234512	Technical Severity: Medium
Summary: Bad SFP triggered i2c access cause issues on port/slot display and cpu load on Brocade 48k	
Symptom: "No system control access to slot" when perform slotshow, "Mod_val" during sfpshow or may see i2c access message as: [EM-1029], 7240,, WARNING, SilkWorm48000, Slot 4, a problem occurred accessing a device on the I2C bus (-4). Operational status (10) not changed	
Feature: Field Escalation	Function: EM / Hil / Sysctrl
Probability: Low	
Found in Release: FOS5.3.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000236299	Technical Severity: Medium
Summary: Port state mismatch on internal copper ports on Embedded platforms between switchshow and portcfgshow's PersistentDisable flag	
Symptom: Port state mismatch on internal copper ports on Embedded platforms between switchshow and portcfgshow's PersistentDisable flag	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS5.3.0	Service Request ID: 346445
Where Else Fixed: FOS6.1.2, FOS6.3.0	

Defect ID: DEFECT000236682	Technical Severity: Medium
Summary: In non-VF mode on DCX, after removing other filters (EE and F_Port TT) and enabling Fabric mode TopTalkers, the flow values are not reliable.	
Symptom: Switching from "EE or F_Port TT" to "Fabric mode TT" will show inaccurate flow values.	
Feature: Fabric Infrastructure	Function: Advanced Performance Monitor
Probability: Low	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000236991	Technical Severity: Medium
Summary: If TI zone operations are performed simultaneously on different switches, active CP may failover due to termination of Name server module	
Symptom: User might notice the message "Detected termination of nsd:4248 (1)" on console and the Active CP will failover.	
Feature: FC Services	Function: Name Server
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000234512	Technical Severity: Medium
Summary: Bad SFP triggered i2c access cause issues on port/slot display and cpu load on Brocade 48k	
Symptom: "No system control access to slot" when perform slotshow, "Mod_val" during sfpshow or may see i2c access message as: [EM-1029], 7240,, WARNING, SilkWorm48000, Slot 4, a problem occurred accessing a device on the I2C bus (-4). Operational status (10) not c	
Feature: Field Escalation	Function: EM / Hil / Sysctrl
Probability: Low	
Found in Release: FOS5.3.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000238321	Technical Severity: Medium
Summary: A switch restart causes random ICL E-Ports to come up "segmented"	
Symptom: After a chassis restart (power cycle or reboot of both CPs) one or more ICL E-Ports will be segmented.	
Workaround: Port toggle when it gets segmented.	
Feature: FC Services	Function: Fabric
Probability: Low	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000238591	Technical Severity: Medium
Summary: CP experienced a kernel panic "Oops: kernel access of bad area, sig: 11 [#1]"	
Symptom: Port reset at the same time as an end to end plogi is being processed or during a plogi storm can lead to a kernel panic "Oops: kernel access of bad area, sig: 11 [#1]" and sometimes cold recovery.	
Feature: Field Escalation	Function: FC Layer 2 Routing
Probability: Low	
Found in Release: FOS6.1.0	Service Request ID: 361517
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000240658	Technical Severity: Medium
Summary: HA Failover on Brocade DCX caused: Need to reboot the system for recovery, reason: System bring up timed out	
Symptom: Switch reboots	
Workaround: Need to manually block/unblock a E-port to rebuild fabric.	
Feature: FC Services	Function: Fabric
Probability: Low	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000241092	Technical Severity: Medium
Summary: Due to race condition, daemons may panic during FID deletion and creating without significant time delay in between.	
Symptom: Switche become irreponsive and dameon starts to panic such as Detect termination of msd:4811 during FID deletion and creation.	
Feature: 8G Platform Services	Function: Partition Management
Probability: Low	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000243885	Technical Severity: Medium
Summary: Switch panic in FICON environment when blocking/unblocking E-Port due to RNID data count being incorrect.	
Symptom: Observed msd panic during RNID processing.	
Feature: FICON	Function: MS-FICON
Probability: Low	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000244394	Technical Severity: Medium
Summary: DWDM link unable to sync up before port is enabled at correct speed.	
Symptom: Concurrent Brocade DCX reboots of both ends of a DWDM link causes the link to fail to come up.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.1.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000245170	Technical Severity: Medium
Summary: Lfcfg command shows incorrect data	
Symptom: Lfcfg on differnt switches shows different result, due to lfcfg does not discard invalid LS node.	
Feature: Logical Fabric	Function: Fabric Other
Probability: High	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000245663	Technical Severity: Medium
Summary: Devices attached to AG are not considered as Virtual.	
Symptom: Brocade DCFM/weblinker report NPIV device as physical device.	
Feature: FC Services	Function: Name Server
Probability: High	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000245810	Technical Severity: Medium
Summary: Processor rebooted - Software Fault:ASSERT when frame size received is too big.	
Symptom: Switch reboot/hafailover with kernel assert in FCPH module.	
Feature: Field Escalation	Function: FCR
Probability: Low	
Found in Release: FOS5.3.1	Service Request ID: 373071
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000245986	Technical Severity: Medium
Summary: In a Fibre Channel Routing (FCR) environment, switch run out of memory when connected with M-EOS switches.	
Symptom: M-EOS switch sending continously RRQ due to FOS switch did not handle RRQ with either accept/reject.	
Feature: Field Escalation	Function: Panic / OOM
Probability: Medium	
Found in Release: FOS6.1.0	Service Request ID: 373769
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000245999	Technical Severity: Medium
Summary: Configdownload problems.	
Symptom: This defect address serveral configdownload related problems: a. With VF enabled configdownload choose "all" option ends with a core dump. b. Configdownload a file from FOSv6.1.x configuration also ends up core dump. c. Local WWN for FCIP was overrode by configdownload with WWN in the config file	
Feature: Infrastructure	Function: Config Download
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000246007	Technical Severity: Medium
Summary: Detected termination of 0.weblinker.fcg:1315	
Symptom: Switch panic/hafailover due weblinker.cfg panic. These panics were observed during overnight slot command script test, when modify/distribute ACL database, and during RNID response processing.	
Feature: Mgmt Embedded - HTTP	Function: Other
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000246527	Technical Severity: Medium
Summary: Blade fault observed with a Brocade 48000 chassis fully loaded with fully loaded 8G 48-port blades.	
Symptom: The 8G 48-port blade running in either slots 1 or 10 of a fully loaded Brocade 48000 chassis was faulted. Fault only observed when all port blades are 8G 48-port blades.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Medium	
Found in Release: FOS6.1.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000247054	Technical Severity: Medium
Summary: Supportsave may show parity errors on disabled ports.	
Symptom: As data is read from disabled ports, a parity error may be logged from those disabled and unused ports. A switch that has been upgraded from a lower code level and never cold booted may show this problem. No errors will be caused on enabled ports or after a disabled port is enabled.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.1.0	
Where Else Fixed: FOS6.3.0, FOS6.1.2 a, FOS6.2.0 e	

Defect ID: DEFECT000247244	Technical Severity: Medium
Summary: FR zones cannot be created when defzone is set to "allaccess"	
Symptom: Redirect zone add will fail if defzone is set to "allaccess"	
Workaround: Set defzone to "noaccess"	
Feature: FC Services	Function: Zoning
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000248723	Technical Severity: Medium
Summary: When running security stress test there appears to be a memory leak in SECd	
Symptom: During security script testing, monitor memory goes low.	
Feature: FOS Security	Function: Other
Probability: Medium	
Found in Release: FOS6.3.0	
Where Else Fixed:	

Defect ID: DEFECT000248891	Technical Severity: Medium
Summary: In routed fabric, Plogi in acceleration path did not program cam entry properly.	
Symptom: Backbone hosts cannot see edge fabric target	
Feature: 8G FCR	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.3.0	

Defect ID: DEFECT000250015	Technical Severity: Medium
Summary: FCIP tunnel wouldn't come up when there is optical to copper converters in between caused by timing issue.	
Symptom: FCIP tunnel wouldn't come up when there is optical to copper converters in between caused by timing issue.	
Feature: FCIP	Function: FCIP Port
Probability: High	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000250270	Technical Severity: Medium
Summary: Removing Quality of Service (QoS) license on fabric switch side causes traffic to stop for the high and low priority flows. Medium priority flow is not affected.	
Symptom: In a cascaded AG configuation of 3 switches: Both AGs are in Port Group mode, devices connect to edge on one end. other devices connect to a switch in fabric on the other end. Everything comes up fine and traffic flows. Remove QoS license from fabric switch, switchdisable/enable, traffic stops to flow for high and low priorities. switchdisable/enable in all 3 switches does not recover. Put back QoS license, everything recovers.	
Feature: FC Services	Function: Fabric
Probability: Low	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000250438	Technical Severity: Medium
Summary: When Quality of Service (QoS) is enabled by default / not utilized, performance of the SAN drops. Disable QoS by default on 4G platforms, 8G long-distance and make portcfg values such as fill words, trunk information persistent across upgrade/downgrades.	
Symptom: QoS may automatically activate on an ISL after a bounce of the link. This may cause an ISL link to be removed from a trunk-group, or it may cause a Long Distance link to fail. Fillwords and porttrunk configuration are reset after upgrade to or download from FOS v6.2.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Medium	
Found in Release: FOS6.1.2	
Where Else Fixed: FOS6.3.0, FOS6.1.2 a	

Defect ID: DEFECT000251322	Technical Severity: Medium
Summary: When a trunk master port is disabled, fabric watch incorrectly sets the new trunk master's health to offline, and remote side to faulty even though port is online.	
Symptom: Webtool display problem without real Functionality impact. Port is on line and passes traffic fine.	
Workaround: Run hafailover.	
Feature: Field Escalation	Function: Management Services
Probability: Medium	
Found in Release: FOS6.1.2	Service Request ID: 377701
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000253027	Technical Severity: Medium
Summary: Unable to get F Ports (Trunk Ports) data.	
Symptom: From management application, can't get F-Port Trunk data.	
Workaround: Run CLI.	
Feature: Mgmt Embedded - CAL	Function: Other
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000253060	Technical Severity: Medium
Summary: Switches bouncing between reachable/unreachable in edge fabric after changing EX port trunk into E port trunk	
Symptom: Fabric becomes unstable after customer change EX trunk ports into E port.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.1.0	Service Request ID: 381303
Where Else Fixed: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000253356	Technical Severity: Medium
Summary: FOS 6.2 Radius Calling-station-ID (31) implementation is used for both "device called by" and "workstation called from" hostname/IP address.	
Symptom: FOS 6.2 Radius Calling-station-ID (31) implementation is used for both "device called by" and "workstation called from" hostname/IP address. The radius calling-station-ID (31) should be used only for the hostname/Ip address from where the requested is made (workstation) and a second attribute "CALLED-station-ID (30) should be used to identify the device that is called by the user (switch).	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 381303
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000257346	Technical Severity: Medium
Summary: Class 2 ACK is not forwarded from F_Port to N_Port in Access Gateway.	
Symptom: When the host transmits a PLOGI to the Name Server (NS), the NS responds with an ACK and then an ACC. The AG forwards the ACC to the host which then responds with an ACK. The ACK is never forwarded back to the NS which causes the NS to ABTS the exchange.	
Feature: Field Escalation	Function: Access Gateway
Probability: High	
Found in Release: FOS6.1.2	Service Request ID: 385037
Where Else Fixed: FOS6.3.0, FOS6.1.2 b	

Defect ID: DEFECT000258583	Technical Severity: Medium
Summary: OVMS init command is not correctly supported	
Symptom: Customer will see that OVMS init command cannot complete and OVMS cannot mount filesystem when it is encrypted	
Feature: Data Security	Function: Disk Encryption
Probability: Medium	
Found in Release: FOS6.2.1	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000259610	Technical Severity: Medium
Summary: IFCC's doing Brocade 48000 HCL from FOS6.2 to FOS6.3; port recovery fails due to inconsistency between legacy and new RTE.	
Symptom: Frame loss triggered IFCC's on links that have active TI zones configured. This only apply to FOS v6.2 to FOS v6.3 upgrade.	
Feature: 4G Platform Services	Function: Routing
Probability: High	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.1

Defect ID: DEFECT000259723	Technical Severity: Medium
Summary: Port fence disabled ports that are running diagtest and triggered blade fault during blade POST	
Symptom: During blade insertion or switch power up: Blade did not come on line with RASLOG from fabric watch: FW-1510 620821/483341, SLOT 7 FID 128, INFO, , FOP Port#11/12,Invalid Words threshold exceeded: Port 108 disabled, thresh_agent.c, line: 2394, Same message may continue to be reported on already faulted blades.	
Feature: Field Escalation	Function: Management Services
Probability: Medium	
Found in Release: FOS6.2.0	
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000260194	Technical Severity: Medium
Summary: Brocade DCX High temperature and bad sensor reported on two DCXs.	
Symptom: Temperature sensor reporting spurious solitary readings which leads to the CRITICAL HIL-1502 message, without having first gone through the HIL-1501 warning.	
Workaround: Ignore isolated / spurious High Temperature CRITICAL errors when not preceded by warnings.	
Feature: Field Escalation	Function: EM / Hil / Sysctrl
Probability: Low	
Found in Release: FOS6.1.1	Service Request ID: 384655
Where Else Fixed: FOS6.3.0	

Defect ID: DEFECT000260383	Technical Severity: Medium
Summary: HIL-1610 WARNING appeared on Brocade 5120 units after power cycle.	
Symptom: Running power cycles several times and confirmed the error message below. The error message is as follows: [HIL-1610], 27,, WARNING, Brocade5100, Fan/PS unit 1 not supplying power, fan speeds not available. Please ensure that the unit has power and the switch is on.	
Workaround: Ignore the warning - it is innocuous when seen right at boot up time. It results from a solitary spurious sensor reading that is below minimum.	
Feature: Field Escalation	Function: EM / Hil / Sysctrl
Probability: Low	
Found in Release: FOS6.1.1	Service Request ID: 390231
Where Else Fixed: FOS6.3.0, FOS6.1.2 b	

Closed with Code Change Defects in Fabric OS v6.2.0g

This section lists defects closed in Fabric OS v6.2.0g. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000236764	Technical Severity: Critical
Summary: Brocade Encryption Switch (BES) goes to 'faulty' state after test cycle that alternately reboots each BES in the configuration every 5 minutes.	
Symptom: BES goes to 'faulty' state after the weekend run that alternately reboots each BES in the configuration every 5 minutes.	
Feature: FC Services	Function: Other
Probability: Low	
Found in Release: FOS6.1.1_enc	Service Request ID: 356483

Defect ID: DEFECT000237921	Technical Severity: High
Summary: Test tool reports data corruption during an overnight run.	
Symptom: The test continuously disables/enables the ISL links to force failover/failback between members of an HA cluster.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.1.1_enc	Service Request ID: 359931

Defect ID: DEFECT000245146	Technical Severity: High
Summary: Continuously disconnect/reconnecting the ISLs in the HA environment causes one of the Brocade Encryption Switches (BES) to go into faulty state.	
Symptom: While IOs and rekey are in progress, continuously disconnect/reconnecting the ISLs in the HA environment causes the BES to go into 'faulty' state	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 372889

Defect ID: DEFECT000245868	Technical Severity: High
Summary: Encrypted LUN gets into internal Encryption Engine (EE) LUN State: Disabled (key not in sync) as a result of rekeying and High Availability Cluster (HAC) / Data Encryption Key (DEK) cluster failover and failback.	
Symptom: Encrypted LUN is not available for crypto operations.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0g

Defect ID: DEFECT000245996	Technical Severity: High
Summary: Brocade Encryption Switch (BES) goes faulty as a result of alternately rebooting the two BES that have all the physical connectivities to the targets and initiators.	
Symptom: Faulty BES will not be available for crypto operations.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000246377	Technical Severity: High
Summary: After rebooting one Brocade Encryption Switch (BES) of a High Availability Cluster (HAC) that has connectivity to the physical targets and initiators, all the crypto targets are lost in the HAC cluster.	
Symptom: LUNs that were part of the lost crypto target containers are not available for crypto operations.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000246901	Technical Severity: High
Summary: Brocade Encryption Switch (BES) shows Encryption Engine busy when continuously and repeatedly disable/enable IO sync ports of the BES.	
Symptom: BES and Encryption Engine are not available for crypto operations.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000248165	Technical Severity: High
Summary: During stress test overnight run of rekey and ISL disable/enable, the test tool exited on write failure to encrypted LUNs.	
Symptom: During a stress test run of rekey + ISL disable/enable, the test tool running on a host in the fabric due to write failure to three drives. A second host writing to the same targets did not encounter this issue.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000248947	Technical Severity: High
Summary: While rekey operations are in progress, disrupting the IO sync link causes rekey operations to hang.	
Symptom: Affected re-key operations will hang and not make progress.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0g

Defect ID: DEFECT000248948	Technical Severity: High
Summary: Rekey operation hangs as a result of failing over to the path that no longer has access to the physical target	
Symptom: Rekey operation does not complete.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000250753	Technical Severity: High
Summary: As a result of I/O and crypto operations, three LUNs are in "Key ID Unavailable" state and one LUN indicates that inquiry failed	
Symptom: Three LUNs on container showing Key ID Unavailable, and one LUN showing inquiry failed. These LUNs are fully functional with no issues on all other containers.	
Workaround: Reboot the Encryption Engine (EE.)	
Feature: Data Security	Function: Infrastructure
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000253164	Technical Severity: High
Summary: Mixing FibreChannel FastWrite (FCFW) and Non-FCFW flows can cause dcam entries to not be set correctly.	
Symptom: When attempting to run a FCFW flow to a device port that already has Non-FCFW flows running to it, the FCFW flow appears to fail without seeing any kind of port filter counters incrementing, indicating that FCFW frames were seen.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000237521	Technical Severity: Medium
Summary: Rekey operation is restarted but hung after all the Encryption Engines (EEs) in the encryption group are rebooted.	
Symptom: Rekey operation hangs after all EEs are rebooted.	
Feature: Data Security	Function: Re-key
Probability: Low	
Found in Release: FOS6.1.1_enc	Service Request ID: 358763

Closed with Code Change Defects in Fabric OS v6.2.0g

Defect ID: DEFECT000244112	Technical Severity: Medium
Summary: Rekeyed LUNs are in "Not Ready (Getting key from archive)" state when the key vault goes down and does not recover.	
Symptom: LUNs are stuck in the "Not Ready (Get key from archive)" even after the key vault is brought back online. LUNs can't be recovered even after removing and re-adding them from/to the target container.	
Feature: Data Security	Function: Key Vault
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 371327

Defect ID: DEFECT000245009	Technical Severity: Medium
Summary: Persistently disabled GE port on a Brocade FR4-18i blade becomes disabled after hafailover.	
Symptom: A GE port on a Brocade FR4-18i blade is persistently disabled. After that hafailover is initiated. Once the system comes up after failover, the persistently disabled GE port is in disabled state and not disabled persistent state.	
Feature: FCIP	Function: FCIP HA
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000250477	Technical Severity: Medium
Summary: Passive path LUN gets stuck in not ready (Get key from archive) state.	
Symptom: When running a test case that periodically downs the link to the key vault , the LUN go to "Not ready (Get key from archive)" state when Ethernet connection to primary key vault is broken.	
Feature: Data Security	Function: Key Vault
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0f

This section lists defects closed in Fabric OS v6.2.0f. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000227048	Technical Severity: High
Summary: Detected unexpected termination of Remote Procedure Call (RPC) daemon.	
Symptom: RPC Daemon application will crash, then will non-disruptively restart. The following error messages may be observed: [KSWD-1003] kSWD: Detected unexpected termination of: "[13]rpcd:0 ... [RAS-1001] First failure data capture (FFDC) event occurred. [SYSC-1004] Daemon rpcd restart successful.	
Feature: Field Escalation	Function: Management Services
Probability: Low	
Found in Release: FOS5.3.0	Service Request ID: 333775

Defect ID: DEFECT000248707	Technical Severity: High
Summary: UNIX based host with FCFW enabled has problems with port disable/enable of HBA ports.	
Symptom: Server hangs after Brocade 7500 reboot.	
Feature: 4G ASIC Driver	Function: Zoning
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000244126	Technical Severity: Medium
Summary: If configdownload is performed via DCFM, switch authentication failure may be seen.	
Symptom: Authentication failure for clients using HTTP service.	
Workaround: Execute hafailover or hareboot.	
Feature: Mgmt Embedded - HTTP	Function: User Admin
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000244915	Technical Severity: Medium
Summary: Pathinfo command failure occurs when run on FOS 6.1, if the path traverses through FOS 6.2.x.	
Symptom: Pathinfo from 6.1 to 6.2.x fails with "Destination Domain Unreachable".	
Feature: Fabric Infrastructure	Function: Mgmt Server
Probability: High	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0f

Defect ID: DEFECT000245609	Technical Severity: Medium
Summary: Supportshow cli command output should complete without having to hit CR several times.	
Symptom: Supportshow output requires user intervention during output.	
Feature: Fabric Infrastructure	Function: Security-authentication
Probability: High	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000248796	Technical Severity: Medium
Summary: Console is not accessible on Brocade 5480.	
Symptom: Console is not accessible on embedded switch.	
Feature: Embedded Platform Services	Function: Bulova
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000250264	Technical Severity: Medium
Summary: Observed ASSERT on standby CP if ICL ports are in disabled state and moved to a different Logical Switch and hafailover is performed without enabling those ports.	
Symptom: ASSERT may be observed on the standby cp (soon to be active cp) when hafailover is issued with the signature: ASSERT - Failed expression: (area == sw->sw_pt[port]->full_fmt_area), file = /vobs/projects/springboard/build/swbd62/fabos/src/sys/dev/switch/switch_recov_ha.c, line = 1747, kernel mode.	
Feature: 8G Platform Services	Function: FOS Kernel Drivers
Probability: Medium	
Found in Release: FOS6.3.0	

Closed with Code Change Defects in Fabric OS v6.2.0e

This section lists defects closed in Fabric OS v6.2.0e. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000236477	Technical Severity: High
Summary: Connectivity issues related to tape pipelining when dealing with FCR frames.	
Symptom: Frames can be dropped by the switch if a specific connectivity issue exists as a result of losing the original source ID in the REC command. Supportsave may panic occasionally when FC fastwrite is not enabled on the GE port.	
Feature: Field Escalation	Function: FCIP
Probability: Low	
Found in Release: FOS6.0.0	Service Request ID: 353979

Defect ID: DEFECT000243085	Technical Severity: High
Summary: VEX port received bad SFID and frame cannot be routed to translate domain.	
Symptom: Continuous RTWR retries are seen on switch from BB fabric where fabricshow is missing IP address.	
Feature: FCR	Function: Integrated Routing
Probability: Medium	
Found in Release: FOS6.1.2	

Defect ID: DEFECT000246149	Technical Severity: High
Summary: Port Fencing - E-port Class Link Resets are not fencing.	
Symptom: RASLOG message will be presented indicating link resets are above threshold, but the port will not have been fenced, as expected.	
Feature: Fabric Infrastructure	Function: Fabric Watch
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000246519	Technical Severity: High
Summary: User entered FRU number via CLI is not being modified.	
Symptom: RNID data reporting same serial # for two different logical switches.	
Feature: FICON	Function: Ficon
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000246775	Technical Severity: High
Summary: Detected termination of process fabricd:4120 followed by software verify errors.	
Symptom: Brocade DCX is unresponsive.	
Feature: 8G Platform Services	Function: PID management
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0e

Defect ID: DEFECT000246908	Technical Severity: High
Summary: Partitioned Brocade DCX-4S panic'd after reset allegiance issued by multiple hosts.	
Symptom: FICUD terminates and switch reboots.	
Feature: FICON	Function: Ficud
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000246916	Technical Severity: High
Summary: SNMPd core file filled up the root file system on Brocade DCX-4S.	
Symptom: User will observe snmpd process being killed and error message "Detected termination of process snmpd:4636, hasm_swd.c, line: 168, comp:insmod, ltime:2009/03/08-20:20:07:011335". The panic will generate the core file that takes away space on the root file system.	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 373285

Defect ID: DEFECT000247176	Technical Severity: High
Summary: Node descriptors are missing for Brocade DCX and DCX-4S.	
Symptom: Missing Node descriptors (FICON RNID data)	
Feature: Pluto Platform Services	Function: Platform Services
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000247409	Technical Severity: High
Summary: Tape pipelining code begins to randomly send only data frames in an exchange to tape drive.	
Symptom: Tape job fails.	
Feature: FCIP	Function: FCIP Performance
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 375305

Defect ID: DEFECT000247757	Technical Severity: High
Summary: Portswap not working for ports 32-47 on 48 port blade	
Symptom: Portswap will not work on port 32-47 on 48 port blade from GUI	
Feature: FICON	Function: Ficud
Probability: High	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0e

Defect ID: DEFECT000248534	Technical Severity: High
Summary: RLIR's with LOL is being generated on 8G channels during CEC IML	
Symptom: During CEC IML of 8G channels, RLIR's are being generated by switch.	
Feature: 8G ASIC Driver	Function: PORT
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000248901	Technical Severity: High
Summary: Tape pipelining code on PI side does not close exchange upon a ELS RJT response to REC -- "invalid oxid/rxid combo"	
Symptom: Writing to tape would fail at random points along the write sequences. device would stop getting write data. Reading from tape would be unaffected.	
Feature: FCIP	Function: FCIP Performance
Probability: High	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000236136	Technical Severity: Medium
Summary: FC Fastwrite corrupts buffer pool upon TWB allocation failure on Proxy Initiator.	
Symptom: I/O fails.	
Feature: Field Escalation	Function: FCIP
Probability: Low	
Found in Release: FOS6.1.1	

Defect ID: DEFECT000244615	Technical Severity: Medium
Summary: Web Tools shows high CPU usage (~80%) when port configuration operation is performed in DCX	
Symptom: CPU usage in Web Tools is showing high (70% – 80%) when port configuration operation is performed on a large system.	
Feature: WebMgmt	Function: Other
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000247054	Technical Severity: Medium
Summary: Supportsave may show parity errors on disabled ports.	
Symptom: Supportsave starting with FOS v6.1.2 has been updated to collect more data. As data is read from disabled ports, a parity error may be logged from those disabled and unused ports. A switch that has been upgraded from a lower code level, and never cold booted, may show this problem. No errors will be caused on enabled ports, or after a disabled port is enabled.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.1.0	

Closed with Code Change Defects in Fabric OS v6.2.0e

Defect ID: DEFECT000247602	Technical Severity: Medium
Summary: Blades are not shown in when a slot is hot plugged in to a DCX/DCX-4s	
Symptom: When a slot is hot plugged, its information will not appear on the GUI	
Feature: Mgmt Embedded - CAL	Function: Ports Admin
Probability: High	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000247663	Technical Severity: Medium
Summary: Observed frame drops and IFCCs with lossless Feature .	
Symptom: Lossless DLS failed with dropped frame causing IFCC in presence of ICLs.	
Feature: 8G Platform Services	Function: Routing
Probability: Medium	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0d

This section lists defects closed in Fabric OS v6.2.0d. Note that when a **Workaround** to an issue is available, it is provided.

Defect ID: DEFECT000235613	Technical Severity: High
Summary: Memory leak found during E-port processing.	
Symptom: An E_port constantly going on and off due to other conditions can lead to an out-of-memory condition.	
Feature: Field Escalation	Function: Panic / OOM
Probability: Medium	
Found in Release: FOS6.1.0	Service Request ID: 346457

Defect ID: DEFECT000236118	Technical Severity: High
Summary: 8Gb storage device failed to detect 8Gb speed when port was locked as a G_port.	
Symptom: Certain 8Gb storage arrays are connecting to Brocade 8Gb switches as 4Gb devices when the switch port is locked as a G_port.	
Workaround: Instead of relying on auto-negotiation, lock the switch port at 8Gb.	
Feature: Field Escalation	Function: ASIC Driver
Probability: High	
Found in Release: FOS6.1.0	Service Request ID: 354645

Defect ID: DEFECT000237420	Technical Severity: High
Summary: Memory leak when querying connUnitPortFCId in Access Gateway (AG) mode and also when querying FcFeModuleName.	
Symptom: Switch panic due to "out of memory" trigger during hafailover/hareboot.	
Workaround: Avoid querying FcFeModuleName or (connUnitPortFCId in AG mode) MIB to avoid memory leak.	
Feature: Field Escalation	Function: Panic / OOM
Probability: Low	
Found in Release: FOS5.3.1	Service Request ID: 348199

Defect ID: DEFECT000237701	Technical Severity: High
Summary: Observed kernel panic on a DCX in RTE module.	
Symptom: DCX will panic and hafailover during supportsave in rare occasions.	
Feature: Field Escalation	Function: FC Layer 2 Routing
Probability: Low	
Found in Release: FOS6.1.1	Service Request ID: SR359167

Closed with Code Change Defects in Fabric OS v6.2.0d

Defect ID: DEFECT000237868	Technical Severity: High
Summary: Fabric Watch failed to initialize on fully populated DCX.	
Symptom: During HA recovery, management application reports switch health status as Marginal/Down. Traffic is not impacted, but DCFM call home will not be initiated.	
Feature: Field Escalation	Function: Management Services
Probability: Low	
Found in Release: FOS6.1.0	

Defect ID: DEFECT000241933	Technical Severity: High
Summary: SNMP v3 user configuration reverts back to defaults after HAfailover.	
Symptom: When configuring SMNP v3 user configuration on any one of the user-defined USM configuration sets and during HAfailover, the SNMP configuration reverts back to default.	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 367427

Defect ID: DEFECT000242132	Technical Severity: High
Summary: Detected termination of 0.weblinker.fcg on DCX-4S.	
Symptom: May see messages like "KSWD-1002], 5766, SLOT 4 FFDC CHASSIS, WARNING, Brocade_DCX4S, Detected termination of process 0.weblinker.fcg:4837" on the console.	
Feature: FICON	Function: Ficud
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000242139	Technical Severity: High
Summary: Ports were found disabled after enabling Virtual Fabric (VF) through DCFM on Brocade 5100.	
Symptom: Some ports may be disabled after enabling VF through DCFM.	
Feature: FICON	Function: Ficud
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000242555	Technical Severity: High
Summary: Missing FICON interrupt on DCX-4S.	
Symptom: CUP did not respond in time before channel timed out.	
Feature: FC Services	Function: Name Server
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0d

Defect ID: DEFECT000242951	Technical Severity: High
Summary: Command "fddcfg -fabwideset" and other security commands fails with RCS transaction error.	
Symptom: May see error message like "Security Application returned Transaction Error, 0x1500000b".	
Feature: FC Services	Function: Fabric
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000243059	Technical Severity: High
Summary: When performing firmwareupgrade from FOS v6.1.x to v6.2.0 and reverting back by firmwarerestore from v6.2.0 to v6.1.x does not succeed and leaves CP with unrecoverable passwords.	
Symptom: Firmwarerestore will fail and leave the CP in inconsistent state and user may not be able to login.	
Workaround: Once passwords are blocked, booting into single-user mode is required with reset of the system passwords.	
Feature: Infrastructure	Function: Firmware Download
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000243349	Technical Severity: High
Summary: Disconnecting/reconnecting the ISL on Brocade Encryption Switch while rekey in progress may result in new key creation failure.	
Symptom: Disconnecting/reconnecting the ISL while rekey operations are in progress, causes the rekey to hang. LUN state shows "Rekey ACK timeout."	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 370041

Defect ID: DEFECT000243880	Technical Severity: High
Summary: CP panic with FICUd crash occurred during supportsave operation.	
Symptom: FICUd crash and CP reboot	
Workaround: This can be avoided by doing one of the following after enabling FMSSMODE for the first time: - switchdisable/switchenable - hafailover - hareboot - reboot	
Feature: FICON	Function: Ficud
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0d

Defect ID: DEFECT000243959	Technical Severity: High
Summary: During rekey operations, continuously disconnect/reconnect the ISL links between 2 cluster nodes, causes one of the LUN to hang at "LUN discovery" state.	
Symptom: LUN may hang at "LUN discovery" state if ISL is continuously disconnected/reconnected.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 371035

Defect ID: DEFECT000244009	Technical Severity: High
Summary: All LUNs in a container are showing target offline.	
Symptom: Host will no longer have access to their LUNs through the crypto target containers.	
Feature: Data Security	Function: Disk Encryption
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000244987	Technical Severity: High
Summary: With tape pipelining active, the switch may return a good status without sending data.	
Symptom: Tape I/O may fail with errors.	
Feature: FCIP	Function: FCIP I/O
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 371297

Defect ID: DEFECT000245277	Technical Severity: High
Summary: Host detecting IFCCs errors to CUP Port.	
Symptom: IFCC errors	
Feature: FICON	Function: Ficud
Probability: High	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000246162	Technical Severity: High
Summary: Brocade Encryption Switch went Faulty when starting traffic.	
Symptom: Loss of LUNs to the Host	
Feature: Data Security	Function: Disk Encryption
Probability: Medium	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0d

Defect ID: DEFECT000246423	Technical Severity: High
Summary: Taking the RKM down while rekeys are in progress, causes one of the LUN gets stuck at state "Not ready (Key creation)".	
Symptom: Taking the RKM down while rekeys are in progress, causes one of the LUN gets stuck at state "Not ready (Key creation)".	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000226734	Technical Severity: Medium
Summary: When attempting to swap ports from the GUI, the operation may fail due to HTTP 500 error	
Symptom: Port Swap failing due to HTTP 500 error	
Feature: Mgmt Embedded - HTTP	Function: Ports Admin
Probability: High	
Found in Release: FOS6.1.1	

Defect ID: DEFECT000232767	Technical Severity: Medium
Summary: SNMP changes required to better support snmp mib.	
Symptom: Default snmpv3 sets different default values between FOS releases, mibcapability option of snmpconfig cannot control ficon mib.	
Workaround: No	
Feature: Field Escalation	Function: SNMP
Probability: Low	
Found in Release: FOS6.1.1	

Defect ID: DEFECT000236582	Technical Severity: Medium
Summary: If second FDISC comes in before the switch responds to the first FDISC between the same pair of devices, the Access Gateway daemon panics.	
Symptom: Access Gateway daemon panic triggers switch reboot.	
Feature: Field Escalation	Function: Access Gateway
Probability: Low	
Found in Release: FOS5.3.0	Service Request ID: 354129

Defect ID: DEFECT000238433	Technical Severity: Medium
Summary: Applications cannot distinguish between FA4-18 and Core blades on DCX using SNMP. Need to add two new FRU classes: "coreblade" and "applicationblade" class.	
Symptom: Applications cannot distinguish between FA4-18 and Core blades using SNMP.	
Feature: Mgmt Embedded - SNMP	Function: Switch Admin
Probability: High	
Found in Release: FOS6.1.0	

Closed with Code Change Defects in Fabric OS v6.2.0d

Defect ID: DEFECT000242074	Technical Severity: Medium
Summary: Optimized SERDES setting for Brocade 5480.	
Symptom: No visible Symptom .	
Feature: 8G ASIC Driver	Function: GE2 ASIC ports
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000242319	Technical Severity: Medium
Summary: Need to add two more values for SNMP port state that includes "validating (10)" module is being validated and "invalidModule (11)" module is invalid.	
Symptom: SNMP object "swFCPortPhyState" is getting invalid value 11.	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000242961	Technical Severity: Medium
Summary: WWN mapping for certain storage systems is incorrect.	
Symptom: With FOS v6.2.x, Web Tools reports a device incorrectly.	
Feature: WebMgmt	Function: Other
Probability: High	
Found in Release: FOS6.2.0	Service Request ID: 369495

Defect ID: DEFECT000243244	Technical Severity: Medium
Summary: As DCFM polling LUNs, the memory usage for weblinker is increased	
Symptom: Memory consumption goes high	
Feature: Data Security	Function: Infrastructure
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000243578	Technical Severity: Medium
Summary: With VF, deleting a FID while in the FID leads to undesirable conditions. The user is stuck in the FID and all commands run generate an error message.	
Symptom: In VF mode, after deleting a FID system may get into undesirable state and, commands run generate an error	
Feature: Fabric Infrastructure	Function: Security-login
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0d

Defect ID: DEFECT000243717	Technical Severity: Medium
Summary: Node descriptors are not shown for M-EOS switch in DCFM when using FOS switch as the seed switch.	
Symptom: The node descriptors are not shown for the Mi10k in DCFM when using FOS switch as the seed switch.	
Feature: Mgmt Embedded - CAL	Function: Other
Probability: High	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000243749	Technical Severity: Medium
Summary: Brocade 300 not responding to Link Reset primitives correctly	
Symptom: Devices may send an OLS and/or link reset	
Feature: 8G ASIC Driver	Function: C2 ASIC driver
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000244738	Technical Severity: Medium
Summary: Re-keys are getting stuck	
Symptom: Re-key progress halts.	
Feature: Data Security	Function: Re-key
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000245047	Technical Severity: Medium
Summary: Switchname mismatch between fabricinfo.html and switchname command from CLI	
Symptom: User sees a name difference between DCFM and Webtools. Because the Switch name is not updated properly at fabricinfo.html.	
Feature: 8G Platform Services	Function: PID management
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000245846	Technical Severity: Medium
Summary: FICON fcip block count mismatch on read emulation.	
Symptom: Tape repositioning may be incorrect when split status responses received to backspace block commands.	
Feature: FCIP	Function: FCIP I/O
Probability: High	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0d

Defect ID: DEFECT000245865	Technical Severity: Medium
Summary: A LUN gets stuck in the Internal EE LUN State: Read Only (Internal metadata key is in RO state).	
Symptom: LUN will not be available for Host until the DiscoverLUN is issued	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000245891	Technical Severity: Medium
Summary: Port Movement from DCFM should be All-or-nothing behavior.	
Symptom: When attempting to move ports from DCFM, some of the ports may be moved and others fail.	
Feature: Mgmt Embedded - CAL	Function: Other
Probability: Medium	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0c

This section lists defects closed in Fabric OS v6.2.0c. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000236118	Technical Severity: Critical
Summary: 8Gb storage device failed to detect 8Gb speed when port was locked as a G_port.	
Symptom: Certain 8Gb storage arrays are connecting to Brocade 8Gb switches as 4Gb devices when the switch port is locked as a G_port.	
Workaround: Instead of relying on auto-negotiation, lock the switch port at 8Gb.	
Feature: Field Escalation	Function: ASIC Driver
Probability: High	
Found in Release: FOS6.1.0	Service Request ID: 354645

Defect ID: DEFECT000226808	Technical Severity: High
Summary: Occasionally during the firmware upgrade process, the 1250 processor is still rebooting when the FCR routes are being processed, resulting in missing FCR routes and an inability to route traffic across VEX ports.	
Symptom: I/O running through VEX ports or devices imported/exported via VEX ports will be dropped after firmware upgrade.	
Feature: Field Escalation	Function: FCIP
Probability: Medium	
Found in Release: FOS6.0.0	

Defect ID: DEFECT000232995	Technical Severity: High
Summary: VI to PT routes are deleted following portdisable/enable on a Brocade FC4-48 blade.	
Symptom: VI is not able to login to Target following creation of FR zone and portdisable/enable for the host port.	
Feature: Field Escalation	Function: FC Layer 2 Routing
Probability: Medium	
Found in Release: FOS6.0.1	

Defect ID: DEFECT000239682	Technical Severity: High
Summary: Passwords were reset to default on Brocade DCX upgrade from FOS v6.1.1_enc2 to v6.2.0.	
Symptom: User unable to login.	
Feature: Fabric Infrastructure	Function: Security-login
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 363533

Closed with Code Change Defects in Fabric OS v6.2.0c

Defect ID: DEFECT000240056	Technical Severity: High
Summary: Channel receiving RSCN with missing ports in payload after HPF key on or off.	
Symptom: RSCN transmitted by the switch does not transmit all the port IDs in the payload.	
Feature: FC Services	Function: Name Server
Probability: Low	
Found in Release: FOS6.1.1	

Defect ID: DEFECT000240927	Technical Severity: High
Summary: Data encryption backup jobs failing due to Brocade DCX crash and reboot when Top Talkers are enabled with Frame Redirection.	
Symptom: Encrypted tape backup job fails when Brocade DCX reboots.	
Workaround: Do not enable Top Talkers concurrently with Functionality that is using frame redirection.	
Feature: FC Services	Function: Zoning
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000240955	Technical Severity: High
Summary: Discovered that a stable working encryption group had split after a successful I/O test run.	
Symptom: After successful DP test run, may observe “comm error” on the group leader.	
Feature: Data Security	Function: Infrastructure
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000241236	Technical Severity: High
Summary: While doing first time encryption to a LUN with more than 1 initiator active at the same time, rekey operations slowed significantly.	
Symptom: Host applications can experience delays in the completion of their I/O requests.	
Workaround: 1. Disable the target ports. 2. Remove one initiator from the container. 3. Start the rekey. 4. Add the initiator back.	
Feature: Data Security	Function: Re-key
Probability: Medium	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000241969	Technical Severity: High
Summary: Software verify error occurred during supportsave on DCX and DCX-4S.	
Symptom: Software verify errors and IFCCs seen during supportsave.	
Feature: Fabric Infrastructure	Function: Security-login
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0c

Defect ID: DEFECT000242065	Technical Severity: High
Summary: FOS v6.2.0 does not provide Chassisinfo with snmpv1 without adding and configuring an snmpv3 user.	
Symptom: The first 6 objects in the system MIB are missing – this corresponds to the ‘error: no such object’ entries in the Hi-Track system table.	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: High	
Found in Release: FOS6.2.0	Service Request ID: 365711

Defect ID: DEFECT000242682	Technical Severity: High
Summary: VTs/VIs disappear when rebooting the Brocade Encryption Switch that has all the physical connections to targets and initiators.	
Symptom: VIs/VTs may disappear when rebooting the Brocade Encryption Switch.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 368783

Defect ID: DEFECT000242683	Technical Severity: High
Summary: Repeatedly disconnect/reconnecting the ISL links between the Brocade Encryption Switch in the HA cluster environment while rekey operations are in progress may cause data miscompare.	
Symptom: Disconnect/reconnecting the ISL links between Brocade Encryption Switch in HA cluster may cause data corruption.	
Feature: Data Security	Function: Disk Encryption
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 368785

Defect ID: DEFECT000242784	Technical Severity: High
Summary: Calculation of TX port and Filter number can incorrectly corrupt the Filter Redirect RAM	
Symptom: An internal recovery scheme can attempt to correct a valid Frame Redirection RAM Filter. This will cause one existing filter to be corrupted, potentially leading to misrouted frames. This is a very rare failure, but if encountered, one of the filter entries will be corrupted.	
Feature: 8G ASIC Driver	Function: C2 ASIC driver
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000242813	Technical Severity: High
Summary: Running configdefault may cause Kernel panic on Brocade 48000.	
Symptom: Observed Kernel panic after configdefault on Brocade 48000.	
Feature: Infrastructure	Function: VF infrastructure
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0c

Defect ID: DEFECT000243152	Technical Severity: High
Summary: Encryption group can't automatically recover after it is split into 2 different islands.	
Symptom: Encryption group won't automatically recover after it is split into 2 different islands.	
Feature: Data Security	Function: HA Cluster
Probability: Low	
Found in Release: FOS6.2.0	Service Request ID: 302186

Defect ID: DEFECT000237198	Technical Severity: Medium
Summary: FOS upgrade on Brocade 3016 to FOS v5.3.x leaves the switch in an unusable state.	
Symptom: Customer was upgrading Brocade 3016 from FOS v5.0.x to v5.3.x and some units would not boot up afterward. After login, limited commands are available and switch fails cold recovery.	
Feature: Mgmt Embedded - SNMP	Function: Other
Probability: Medium	
Found in Release: FOS5.3.1	

Defect ID: DEFECT000238430	Technical Severity: Medium
Summary: Switch panic when supportsave read invalid data on GE ports without FC Fastwrite enabled.	
Symptom: Unexpected switch panic.	
Feature: Field Escalation	Function: FCIP Flipper/ASIC
Probability: Low	
Found in Release: FOS6.1.0	Service Request ID: 361287

Defect ID: DEFECT000239422	Technical Severity: Medium
Summary: FICON XRC times out on Brocade 7500 to DCX.	
Symptom: Specific third party drives not coming on line.	
Feature: FCIP	Function: FCIP I/O
Probability: Medium	
Found in Release: FOS6.1.1	Service Request ID: 361531

Defect ID: DEFECT000240677	Technical Severity: Medium
Summary: Enabled minimum FOS support for DWDM-SFP port media.	
Symptom: No visible Symptom . Enabled new SFP support.	
Feature: Pluto Platform Services	Function: SysCtrl/EM
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0c

Defect ID: DEFECT000241032	Technical Severity: Medium
Summary: Switch did not indicate a warning when a PS/FAN FRU was removed.	
Symptom: Brocade 5100 did not indicate the warning in spite of PS/FAN FRU removal.	
Feature: WebMgmt	Function: Fabric Watch
Probability: High	
Found in Release: FOS6.2.0	Service Request ID: 363745

Defect ID: DEFECT000241777	Technical Severity: Medium
Summary: Reporting high temperature alarms on Brocade FS8-18 blades when the ambient temperature is 39C.	
Symptom: Customer may see high temperature alerts.	
Feature: System Controls/EM	Function: Pluto
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 367201

Defect ID: DEFECT000242074	Technical Severity: Medium
Summary: Optimized SERDES setting for Brocade 5480.	
Symptom: No visible Symptom .	
Feature: 8G ASIC Driver	Function: GE2 ASIC ports
Probability: Medium	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0b

This section lists defects closed in Fabric OS v6.2.0b. Note that when a workaround to an issue is available, it is provided.

Defect ID: DEFECT000235578	Technical Severity: High
Summary: CUP Port present CU-Busy on one path and never sending CU-End to clear busy	
Symptom: CUP can fail to send CUE when SAK is expecting it. A Logical Path will quit sending chains, if it does not receive a CUE, when expecting it. The CUP is still responsive, but the host is waiting for the CUE.	
Feature: FICON	Function: Ficud
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000237437	Technical Severity: High
Summary: In an HA cluster environment, Re-key operations can't be started on vendor storage LUNs.	
Symptom: In an HA cluster environment, Re-key operations can't be started on vendor storage LUNs.	
Feature: Data Security	Function: Disk Encryption
Probability: Medium	
Found in Release: FOS6.1.1_enc	Service Request ID: 358551

Defect ID: DEFECT000238428	Technical Severity: High
Summary: WWN card FRU replacement procedure not sending async reports to FICON host.	
Symptom: Customers won't know when a WWN card has been removed.	
Feature: FICON	Function: Ficud
Probability: High	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000239126	Technical Severity: High
Summary: ASIC Interrupt handling fix – single defect to address issues found while attempting to respond to ASIC generated interrupts.	
Symptom: Customer may experience high CPU load and unexpected blade errors.	
Feature: Field Escalation	Function: ASIC Driver
Probability: Low	
Found in Release: FOS6.1.0	

Defect ID: DEFECT000239668	Technical Severity: High
Summary: Unable to configure port(s) using configdownload	
Symptom: Unable to configure ports using configdownload if the ports are not not physically present in the switch.	
Feature: Infrastructure	Function: Config Download
Probability: Low	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0b

Defect ID: DEFECT000240443	Technical Severity: High
Summary: After a fosconfig --enable vf, followed by a fosconfig --disable vf, customer is unable to log in via telnet or serial port to the Brocade DCX. All accounts receive the error "Cannot assign valid AD at the login session".	
Symptom: After running fosconfig --enable vf and letting the switch reboot, logged back in, stepped through the configure command to validate the new options against the documentation (nothing was changed). Then ran fosconfig --disable vf, and let the switch reboot. When attempting to log back into the switch, received the error "Cannot assign valid AD at the login session", and was disconnected.	
Workaround: Don't change VF mode until dual CP chassis is in sync	
Feature: Infrastructure	Function: VF infrastructure
Probability: Medium	
Found in Release: FOS6.2.0	Service Request ID: 365207

Defect ID: DEFECT000237196	Technical Severity: Medium
Summary: Unable to activate a new PDCM Matrix with Webtools	
Symptom: When activating saved PDCM Matrix from 'Activate CUP Port Connectivity Configuration' dialog in WebTools, with "Active=Save Mode" checked, WebTools displays error.	
Workaround: Activate the same PDCM Matrix from WebTools, with "Active=Save Mode" checked from 'Edit CUP Port Connectivity Configuration' window.	
Feature: FICON	Function: Ficud
Probability: High	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000237675	Technical Severity: Medium
Summary: Onboard Administrator used to manage Brocade 5480 is not able to read the switchname	
Symptom: TheOnboard Administrator will not display the switchname	
Workaround: Switch name can be displayed from FOS CLI command - switchname	
Feature: Embedded Platform Services	Function: Bulova
Probability: High	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000237918	Technical Severity: Medium
Summary: Beta regression: switchdisable & switchenable on Base switch with active E2E I/O, all frames dropped one one direction of bi-directional I/O afterwards and never recovered itself, monitored sts_tx_timeout counter keep increased on E-EX port.	
Symptom: Edge to Edge data frames not recovered after switchdisable & switchenable on a Base switch.	
Workaround: stop I/O and restart I/O may help to recover.	
Feature: 8G ASIC Driver	Function: C2 ASIC driver
Probability: Medium	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0b

Defect ID: DEFECT000238392	Technical Severity: Medium
Summary: EVA4400 controllers crashing when servers with qllogic hba's have access to encrypted luns are rebooted	
Symptom: EVA4400 controllers crashing when servers with vendor HBAs have access to encrypted luns are rebooted.	
Feature: FC Services	Function: Name Server
Probability: High	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000238526	Technical Severity: Medium
Summary: Unexpected software call traceback error messages are being displayed on the console.	
Symptom: Console occasionally displays call traceback messages. End of printout has Software Verify errors.	
Feature: Pluto Platform Services	Function: Platform Services
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000239664	Technical Severity: Medium
Summary: Even with Lossless DLS Feature enabled, there may be a few frame drops when a trunk port comes online	
Symptom: Even with Lossless DLS Feature enabled, there may be a few frame drops when a trunk port comes online	
Feature: 8G ASIC Driver	Function: Routing
Probability: Low	
Found in Release: FOS6.2.0	

Defect ID: DEFECT000239822	Technical Severity: Medium
Summary: supportsave: USB: interactive mode stores all files illegally in switch root directory instead of the USB device	
Symptom: When using supportsave in interactive mode with a USB stick selected for storage, the supportsave files are stored in the switch root directory and not the USB device. This can also result in compact flash storage overflow.	
Feature: RAS	Function: FFDC/Supportsave
Probability: Medium	
Found in Release: FOS6.2.0	

Closed with Code Change Defects in Fabric OS v6.2.0a

This section lists defects closed in Fabric OS v6.2.0a. Note that when a workaround to an issue is available, it is provided.

Defect ID:	DEFECT000238444	Technical Severity: High
Summary:	In B2E routed environment, when user executes Pathinfo command in BB querying for xlate domain, the switch may panic.	
Feature:	FC Services	Function: FSPF
Found in Release:	FOS6.2.0	

Defect ID:	DEFECT000225796	Technical Severity: Medium
Summary:	Brocade switch is sending RSCN event Qualifier as 0x20 for FOS 6.1.x and 0x08 FOS v6.1.0g and FOS v6.2.0.	
Symptom:	Some OS/HBA combinations take down FC link when N_port generated RSCN are delivered by switch with 0x08 or 0x20 as event qualifier. Revert back to FOS v6.0 way of sending as 0x0.	
Feature:	FOS Software	Function: Fabric Services
		Probability: High
Found in Release:	FOS 6.1.0_8e	Service Request ID: 332317

Defect ID:	DEFECT000237341	Technical Severity: Medium
Summary:	When upgrading a switch with an FC10-6 blade from FOS v6.1 to v6.2, the standby CP may go into a rolling reboot.	
Feature:	8G Platform Services	Function: Routing
Found in Release:	FOS6.2.0	

Defect ID:	DEFECT000238215	Technical Severity: Medium
Summary:	In routed environment, after upgrading to v6.2.0, command 'fcrfabricshow' displays ex-port # as 0	
Feature:	8G FCR	Function: FCR CLI
Found in Release:	FOS6.2.0	

Defect ID:	DEFECT000230294	Technical Severity: High
Summary:	Out of Memory condition on switch occurred, due to memory leak in nsd process.	
Symptom:	Mixed fabric running in Interopmode2, switch hafailover/hareboot occurs due to out of memory occurrence.	
Feature:	FC Services	Function: Name Server
Found in Release:	FOS6.2.0	

Defect ID:	DEFECT000239111	Technical Severity:	High
Summary:	Switches leaking memory slowly over extended period while being managed by DCFM.		
Feature:	Mgmt Embedded - SNMP	Function:	Switch Admin
Found in Release:	FOS6.2.0		