

Brocade Fabric OS v6.3.1_dcb5 for DELL M8428-k

Release Notes v1.0

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Document History

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Brocade Fabric OS v6.3.1_dcb5 for DELL M8428-k Release Notes v1.0	Initial release	May 9, 2012

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Overview

Fabric OS v6.3.1_dcb5 is a platform specific release to support the DELL M8428-k 28-port Converged 10Gb Switch module designed for DELL M1000E series chassis. Other than exceptions noted in this document, this software release is functionally equivalent to Fabric OS v6.3.1 as it pertains to the Brocade 8000.

Warning:

- 1. Do not load the Fabric OS v6.3.1 or any other non-supported Fabric OS on DELL M8428-k
- 2. Do not remove the default software licenses.
- 3. Fabric OS v6.3.1_dcb5 is only supported on DELL M8428-k module. Do not load this on any other switch platform.

New in v6.3.1_dcb5

The track interface feature allows you to track one or more external ports on a switch. Only external physical interfaces and port-channel interfaces can be tracked. The command "track enable/disable" can be used to enable (or disable) tracking. For example:

- Select the internal interface as the tracking monitor: switch(config)#interface intengigabitethernet 0/8
- 2. Enable tracking:
 switch(conf-if-int-0/8)#track enable
- 3. Select one or more external interfaces to be tracked:
 switch(conf-if-int-0/8)#track interface extengigabitethernet 0/15
 switch(conf-if-int-0/8)#track interface extengigabitethernet 0/16

DELL M8428-k

The DELL M8428-k module is a high speed 28-Port Converged 10GbE embedded Switch designed for use with DELL M1000E Series chassis.

Feature Descriptions

Note that the DELL M8428-k module is custom designed for High-speed fabrics B and C on DELL M1000E Chassis. Following are specific features as related to this module:

- 28 Port Converged Switch with four 8Gb native external FC ports and 24 10GbE ports, eight of which are for external connectivity.
- M8428-k module is in NPIV mode and can be switched to full fabric mode with fabric license already installed.
- Maximum Switch bandwidth of 272Gb in Full Duplex mode.
- Maximum ISL Trunk Bandwidth: 32Gb (64Gb in Full duplex) on FC ports
- Extremely low Frame latency providing fast FC frame and IP packet switching
- Built on Brocade DCX and 8000 platform Technologies

- Dual Function FC Ports supports native connectivity to Brocade fabrics as well as NPIV connectivity to legacy McData fabrics and third party fabrics like Cisco MDS fabrics.
- Utilizes Web Tools and BNA mgmt tools to simplify fabric and IP network setup and ongoing maintenance to increase operational efficiency and maximize return on investment
- KR support on Internal ports.
- Protects existing investments by providing 8 Gbit/sec technology with auto-sensing capabilities to also recognize 4 and 2 Gbit/sec devices to existing FC fabrics and 10GbE for connection to existing IP networks while providing enhanced enthernet capabilities. Note the 16 internal 10GbE ports support both 10 or 1GbE with autosensing to the blade server.

- Fibre Channel Services

- o Simple Name Server (SNS),
- Registered State Change Notification (RSCN),
- o NTP, RADIUS, LDAP, Reliable Commit Service (RCS), and
- Dynamic Path Selection (DPS)

CEE Services:

- Spanning Tree Protocol (STP, MSTP, RSTP),
- VLAN Tagging (802.1q),
- MAC address learning and aging;
- o native FCoE Bridging and switching;
- IEEE 802.3ad Link Aggregation (LACP);
- o access control lists based on VLAN, source, destination address, and port;
- eight priority levels for OoS and greater than 1024 VLANs supported.
- Priority-based Flow Control (PFC);
- o Data Center Bridging eXchange (DCBX)-Capabilities Exchange;
- Enhanced Transmission Selection (ETS)

Management Software:

- Brocade Network Advisor (BNA) Professional, BNA 75 days Trial, and BNA Production:
- BNA uses HTTP/HTTPS and SNMP protocols to communicate with the Brocade 8000 to manage and monitor CEE features
- o Enhanced Group Management (EGM), license is already included
- BNA enhancements support the following FCoE/CEE functionality:
- Discovery, connectivity map, and product list
- o Configuration management

- o Performance management
- o Fault management
- o Security management
- HTTP/HTTPS, Telnet; SNMP (FE MIB, FC Management MIB, and IF-MIB for CEE);
 Web Tools; SMI-S; RADIUS

- Management Protocols

- o Industry-common Command Line Interface (CLI)
- o Security Shell (SSH) v2
- o Authentication, Authorization, and Accounting (AAA)
- o Simple Network Management Protocol (SNMP) v1, and v3
- o Unified username and passwords across CLI and SNMP
- o Syslog
- o Microsoft Challenge Handshake Authentication Protocol (CHAP)
- o Remote Monitoring (RMON)
- o Per-port ingress and egress counters
- o Role-Based Access Control (RBAC)
- o Power-On Self-Test (POST)
- o Comprehensive bootup diagnostics

Optionally Licensed Fabric Services

Optionally licensed features supported for FC ports include:

- Brocade ISL Trunking Provides the ability to aggregate multiple physical links into one logical link for enhanced network performance and fault tolerance.
- Brocade Advanced Performance Monitoring Enables performance monitoring of networked storage resources. This license includes the TopTalkers feature.
- Brocade Fabric Watch Monitors mission-critical switch operations. Fabric Watch includes Port Fencing capabilities.
- Brocade Extended Fabrics Provides fabric connectivity over long distances.

Universal Temporary License Support

The above licenses are also available as Universal Temporary licenses, meaning the same license key can be installed on multiple switches. Universal Temporary license keys can only be installed once on a particular switch, but can be applied to as many switches as desired. Temporary use duration (the length of time the feature will be enabled on a switch) is provided with the license key. All Universal Temporary license keys have an expiration date upon which the license can no longer be installed on any unit.

Summary of New Software Features

All software features of FOS v6.3.1 release that are supported on the Brocade 8000 platform are also supported on DELL M8428-k module except where noted in this document. In addition, the FOS v6.3.1_dcb5 release supports the following features on the DELL M8428-k module:

- Clause 73 10G/1G Autonegotiation
- Clause 73 KR auto tuning
- Layer 3 Static Routes
- IGMP Snooping

New Feature Descriptions

- The sixteen server blade ports on DELL M8428-k (ports 1-16) have autosensing to allow either 1 or 10GbE operation. In addition these ports also support KR auto tuning.
- Static route feature provides ability to configure IP routes statically there by enabling IP routing functionality.
- IGMP Snooping provides a mechanism by which the DELL M8428-k can learn forwarding states on (STP unblocked) ports of a VLAN on which multicast data and control packets need to be forwarded.

Supported Mezzanine Cards

Brocade 2-Port 10GbE Converged Network Adapter	BR1741M-k
Intel Dual-Port Niantic SIKKR	
Broadcom Quad Dual-Port 57712 LOM	
Dual-Port P3+ LOM	
QLogic Dual-Port CNA P3+	

Standards Compliance

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

The DELL M8428-k conforms to the following Ethernet standards:

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

The following draft versions of the Converged Enhanced Ethernet (CEE) and Fibre Channel over Ethernet (FCoE) Standards are also supported on the M8428-k:

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

Technical Support

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

1. General Information

- 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, examples of which are shown here:

FT00X0054E9



The serial number label is located on the bottom of the module.

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.

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 licenseld command to display the License Identifier.

Compatibility

DELL/Broade BNA Compatibility

Note that DELL M8428-k is compatible with Brocade's BNA 11.0 management software.

WebTools Compatibility

DELL M8428-k with FOS v6.3.1_dcb5 is supported with JRE 1.6.0 Update 16.

SMI Compatibility

- DELL M8428-k with FOS v6.3.1_dcb5 is supported with SMI-S agent 120.11.0.
- DELL M8428-k with FOS v6.3.1_dcb5 is supported with SMI-S Agent integrated with BNA 11.0

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. Please note that this interop matrix is relevant for the Native FC ports on DELL M8428-k products.

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 3200, 3800	Not supported
Brocade 3000	Not supported
Silkworm 3250, 3850 and Brocade 3900, 4100, 4424, 4900, 24000, 7500, 7500E, 5000, 200E, 48000	v5.3.2c (2G and 4G platforms) v6.2.0g for 200E and v6.3.0 and later ² (4G platforms only)
Silkworm 12000	v5.0.x ^{3 4}
Brocade M5424	V6.3.1 and later
Brocade 8000	v6.3.1 or later
Brocade 7800, DCX and DCX-4S with FC0E10-24 or FX8-24 blades	v6.3 and later

Brocade DCX and DCX-4S with FC8-64 blade	v6.4
Brocade DCX, 300, 5100, 5300	v6.3.0 and later ²
VA-40FC	v6.3.1, and v6.4.0 and later
Brocade DCX-4S	v6.3.0 and later
Brocade DCX with FS8-18 blade(s), Brocade Encryption Switch	Not Supported
Brocade DCX/DCX-4S/48000 with FA4-18 blade(s), Brocade 7600	v5.2.x or later (DCX requires v6.0.x or later, DCX-4S requires 6.2.x or later)
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 v9.9.8 or later ¹
McDATA ED-5000 32-port FC director	Not Supported
Multi-Protocol Router Interop	
Brocade 7500 and FR4-18i blade	v5.1.0 and higher 5
McDATA SANRouters 1620 and 2640	Not Supported

Table Notes:

¹ It 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 <u>supported</u> to interoperate with FOS 6.4. 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.

Standard MIBS:

Please refer to the Dell Fabric OS MIB Reference Manual for FOS v6.3.1_dcb (53-1002117-01) for a list of supported MIBs.

Firmware Upgrades and Downgrades

Switches running v6.3.1_dcb or v6.3.1_del can be upgraded to this build.

²When directly attached to a Host or Target that is part of an encryption flow.

³Products 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).

⁴These platforms may not be directly attached to hosts or targets for encryption flows.

⁵McDATA 1620 and 2640 SANRouters should not be used with XPath or FOS-based routing (FCR) for connections to the same edge fabric.

Other Important Notes and Recommendations

Configuration Notes:

- Sometimes fcoeport may not login on the switch shipped out of factory; please follow the following procedure from the cmsh to bring the fcoeport online. This needs to be done only for the first time switch is brought up.
 - no fcoeport
 - fcoeport
 - shut
 - no shut
- 2) DELL M8428-k supports 128 sflow samples per second for IP connections. To avoid dropped samples ensure that the aggregated sflow samples do not exceed this value.

Documentation Updates

For Fabric OS v6.3.1_dcb5 documentation refer to Fabric OS v6.3.1 documentation. When using the FOS v6.3.1 documentation, the DELL M8428-k Switch Module is equivalent to the BROCADE 8000 except where noted in this section. The most recent Fabric OS v6.3.1 documentation manuals are available on MyBrocade: http://my.brocade.com/

The following three documents are intended specifically for DELL M8428-k:

- 1) Dell Converged Enhanced Ethernet Command Reference for FOS v6.3.1_dcb (53-1002115-01)
- 2) Dell Converged Enhanced Ethernet Administrator's Guide for FOS v6.3.1_dcb (53-1002116-01)
- 3) Dell Fabric OS MIB Reference Manual for FOS v6.3.1_dcb (53-1002117-01)

The above documents supersede the FOS standard documentation.

In addition, please note the following updates to the standard FOS v6.3.1 documentation.

Brocade Fabric OS Administrator's Guide (Publication Number 53-1001336-02)

On Table 90 - Buffer Credits

Add the Brocade M8428-k model with the following table information

Switch/blade model	Total FC Ports (per switch blade)	User Port Group Size	Unreserved Buffers (per port group)
M8428-k	4	4	580

On Table 91 - Supported Distances

Add the Brocade 8428-k model with the following table information

Switch/blade model	2 Gbps	4 Gbps	8 Gbps
M8428-k	582	291	145

Brocade Access Gateway Administrator's Guide (Publication Number 53-1001345-01)

On Table 5 – Access Gateway default F-port to N-port mapping (page 53)

Brocade Model	Total Ports	GE-ports	N-ports	Default GE_ to N_Port Mapping
M8428-k	28	1-24	0,25,26,27	1, 2, 3, 4, 17, 18 mapped to 25
				5, 6, 7, 8, 19, 20 mapped to 26
				9, 10, 11, 12, 21, 22 mapped to 27
				13, 14, 15, 16, 23, 24 mapped to 0

The Failover and Failback are enabled by default on all N_ports. The PG policy is enabled by default. The APC and ADS policies are disabled by default.

Defects

Defects Closed with Code Change in Fabric OS v6.3.1_dcb5

This section lists defects with Critical, High and Medium Technical Severity closed in Fabric OS v6.3.1_dcb5.

Defect ID:	DEFECT000282759	Technical Severity: Medium	
Summary:	Switches in Access Gateway (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 such as "[KSWD-1002], 1285, FFDC CHASSIS, WARNING, Brocade300, Detected		
	termination of process agd0:1793" are seen and then debug information is dumped.		
Probability	Probability: Low		
Feature: 1	re: FOS Software Function: Access Gateway		
Reported I	n Release: FOS6.3.0	Service Request ID: 419851	

Defect ID: DEFECT000343097	Tashmisal Canadana Madiana
	Technical Severity: Medium
Summary: Allow Multiple Fabric Name Monitoring (M	FNM) to be disabled on CEE switches when operating in
AG mode.	L CERTAGE 1 1 1 1 1 1 1
Symptom: Currently, MFMN is hard-enabled on Brocae	
	rated every few minutes if the Brocade 8000 is connected
to multiple fabrics.	
Probability: Medium	1
Feature: Access Gateway Services	Function: Daemon
Reported In Release: FOS6.4.0	
Defect ID: DEFECT000356468	Technical Severity: High
Summary: Access Gateway does not clean up frame exc	hange properly if FLOGI/FDISC comes in from different
ports together with the same exchange ID (O	
Symptom: 3rd party applications report migration failur	es between servers.
Probability: Low	
Feature: FOS Software	Function: Access Gateway
Reported In Release: FOS6.3.2	Service Request ID: 629273
	• •
Defect ID: DEFECT000387572	Technical Severity: Medium
Summary: Persistence of "switchport" on port-channel	
Symptom: After a code upgrade with a large configuration	
	etc. is lost. Port-channel needs to be reconfigured.
Feature: FOS	Function: KERNEL
Reported In Release: FOS6.3.1_dcb	runction, RERIVEE
Reported in Release. 1 050.5.1_dcb	
Defect ID: DEFECT000389661	Technical Severity: Medium
Defect ID: DEFECTIONS	
Summary. VeriSign Code Signing Certificate undate for	
Summary: VeriSign Code Signing Certificate update for	WebTools
Symptom: WebTools will be considered as an UN-trust	WebTools ed application to the user. After the code fix, when
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not displayed.	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not disapplication.	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the
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Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not disapplication. Probability: High Feature: WebMgmt	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the
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Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not disapplication. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the splay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not disapplication. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285 Summary: The ceeportloopbacktest fails when running the selection of the	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the uplay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium n 1G mode.
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not dis application. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285 Summary: The ceeportloopbacktest fails when running Symptom: The BR4870 systemverification fails in 1G re	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the applay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium I G mode. Indeed.
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not dis application. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285 Summary: The ceeportloopbacktest fails when running Symptom: The BR4870 systemverification fails in 1G refeature: Diagnostics	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the uplay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium n 1G mode.
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not dis application. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285 Summary: The ceeportloopbacktest fails when running Symptom: The BR4870 systemverification fails in 1G re	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the applay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium I G mode. Indeed.
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not disapplication. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285 Summary: The ceeportloopbacktest fails when running Symptom: The BR4870 systemverification fails in 1G refeature: Diagnostics Reported In Release: FOS6.3.1_dcb	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the uplay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium I G mode. Indee. I Function: Other
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not disapplication. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285 Summary: The ceeportloopbacktest fails when running Symptom: The BR4870 systemverification fails in 1G mestage FoS6.3.1_dcb Defect ID: DEFECT000393888	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the aplay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium n 1G mode. Tode. Function: Other Technical Severity: High
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not dis application. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285 Summary: The ceeportloopbacktest fails when running Symptom: The BR4870 systemverification fails in 1G refeature: Diagnostics Reported In Release: FOS6.3.1_dcb Defect ID: DEFECT000393888 Summary: The NSMD daemon panics due to the display	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the aplay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium n 1G mode. node. Function: Other Technical Severity: High of invalid data on the interface poll.
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not dis application. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285 Summary: The ceeportloopbacktest fails when running Symptom: The BR4870 systemverification fails in 1G refeature: Diagnostics Reported In Release: FOS6.3.1_dcb Defect ID: DEFECT000393888 Summary: The NSMD daemon panics due to the display Symptom: The NSMD panics, followed by a switch reb	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the aplay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium n 1G mode. node. Function: Other Technical Severity: High of invalid data on the interface poll.
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not dis application. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285 Summary: The ceeportloopbacktest fails when running Symptom: The BR4870 systemverification fails in 1G re Feature: Diagnostics Reported In Release: FOS6.3.1_dcb Defect ID: DEFECT000393888 Summary: The NSMD daemon panics due to the display Symptom: The NSMD panics, followed by a switch reb same time.	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the splay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium n 1G mode. Function: Other Technical Severity: High of invalid data on the interface poll. bot if more than one application is polling data at the
Symptom: WebTools will be considered as an UN-trust WebTools is launched for the first time with displayed. You can verify the certificate deta information" in the dialog. After selecting th Run button, the warning message will not dis application. Probability: High Feature: WebMgmt Reported In Release: FOS7.0.1 Defect ID: DEFECT000390285 Summary: The ceeportloopbacktest fails when running Symptom: The BR4870 systemverification fails in 1G refeature: Diagnostics Reported In Release: FOS6.3.1_dcb Defect ID: DEFECT000393888 Summary: The NSMD daemon panics due to the display Symptom: The NSMD panics, followed by a switch reb	WebTools ed application to the user. After the code fix, when the updated certificate, a warning dialog will be ils (Issuer/Validity/Subject) by clicking "More e checkbox "Always trust content", and clicking the aplay in further logins since it is now consider as a trusted Function: Login / Session Management Technical Severity: Medium n 1G mode. ande. Function: Other Technical Severity: High of invalid data on the interface poll.

Technical Severity: Medium		
ummary: Embedded switches lose IP connectivity		
ptom: Switch is auto-negotiated to half-duplex while remote is set at 100M Full Duplex. Ethernet interface		
in stats, User can no longer connect to IP management		
Workaround: In order to recover transmit, use the ifconfig eth0 down/up CLI commands. Then use the ipaddrest		
command to change the gateway to another address (does not have to be an actual address) and		
change it back to the actual gateway with the command. This will force a reload of the default		
Function: FCoE		
Service Request ID: 705205		
Technical Severity: Medium		
Summary: cmsh core after user cntl^C repeatedly when daemon busy.		
Symptom: customer will see core of cmsh process, this is non-disruptive.		
Function: FCoE		

Defect ID:	DEFECT000396293	Technical Severity: Medium	
Summary:	ary: The "sh proc cpu sum" command output (from cmsh) shows the incorrect CPU utility.		
Symptom:	Symptom: The "show process cpu summary" command output does not match the current CPU utilization or load.		
Feature: I	FOS Software	Function: FCoE	
Reported I	Reported In Release: FOS6.3.1_dcb		

Defect ID: DEFECT000397647	Technical Severity: Medium	
Summary: The Fabric OS version is not correct from the	cmsh prompt, however, the firmware version is correct.	
Symptom: The cmsh show version displays the Fabric OS release as 6.3.1_del		
Feature: FOS	Function: Platform	
Reported In Release: FOS6.3.1_dcb		

Defect ID: DEFECT000399885	Technical Severity: Medium	
Summary: There is a v7.0.1 8000 CEE weblinker file descriptor leak when monitored by BNA.		
Symptom: Customer will experience asserts and weblinker terminations and restarts. This is non-disruptive to customer traffic.		
Probability: High		
Feature: FOS Software	Function: FCoE	
Reported In Release: FOS7.0.1	Service Request ID: 719205	

Defects Closed with Code Change in Fabric OS v6.3.1_dcb4

This section lists defects with Critical, High and Medium Technical Severity closed in Fabric OS v6.3.1_dcb4.

Note that when a workaround to an issue is available, it is provided; otherwise, no recommended workaround is available at this time.

Defect ID: DEFECT000378064	Technical Severity: Critical	
Summary: Switch intermittently rebooting with cald being killed.		
Symptom: Switch intermittently reboot when management application query for fcoe map etc.		
Probability: High		
Feature: FOS Software	Function: FCoE	
Reported In Release: FOS6.3.1_cee	Service Request ID: 688761	

Defect ID: DEFECT000385606	Technical Severity: Critical
Summary: Switch may panic with error glibc detector of caldO, nsmd	ed *** double free or corruption followed by termination
Feature: FOS Software	Function: FCoE
Reported In Release: FOS6.3.1_dcb	

Defect ID: DEFECT000387082	Technical Severity: Medium	
Summary: BR8470: Added FPGA version 17 to the build		
Feature: FOS	Function: Embedded	
Reported In Release: FOS6.3.1_dcb		

Defect ID: DEFECT000387737	Technical Severity: High	
Summary: B8470: Switch became faulty when execute POST2		
Feature: Diagnostics	Function: Post Diags	
Reported In Release: FOS6.3.1_dcb		

Defects fixed and closed in v6.3.1_dcb3

This section lists defects fixed and closed Fabric OS v6.3.1_dcb3.

Defect ID: DEFECT000372130	Technical Severity: Medium	
Summary: M8428k: IOM Transparency – Asset change rings doorbell prior to XML being updated.		
Symptom: Asset change may not be reflected.		
Probability: High		
Feature: UNDETERMINED	Function: UNDER REVIEW	
Reported In Release: FOS6.3.1_dcb1		

Defects fixed and closed in v6.3.1_dcb2

This section lists defects fixed and closed Fabric OS v6.3.1_dcb2.

Note that when a workaround to an issue is available, it is provided; otherwise, no recommended workaround is available at this time.

Defect ID:	DEFECT000364055	Technical Severity: High	
Summary:	: Switch panics when it's attached to a Juniper EX4500 switch.		
Symptom:	switch panics when it's attached to a Juniper EX4500 switch with the following:		
	*** glibc detectDetected termination of onmd:1604 (1)		
	ed *** free(): iexit code:134, exit sig:17, parent sig:0		
	nvalid next size (normal): 0x10137980 ***.		
Probability: High			
Feature:	Field Escalation	Function: FCoE	
Reported 1	Reported In Release: FOS6.3.1_cee		

Defect ID:	DEFECT000354157	Technical Severity: Medium	
Summary:	ummary: Brocade FCOE LACP PDU length is non-standard.		
Symptom:	uptom: Nonstandard size LACP PDUs being discarded at the remote end and Brocade switch could not form a		
	dynamic LAG with a 3rd party switch.		
Probability: Low			
Feature:	CEE-LAYER2	Function: LACP	
Reported I	n Release: FOS6.3.1_dcb		

Defects fixed and closed in v6.3.1_dcb1

This section lists defects fixed and closed Fabric OS v6.3.1_dcb1.

Defect ID: DEFECT000318480	Technical Severity: Medium	
Summary: IPv6 enhancement: disable IPv6 interface when duplicate addresses are detected.		
Symptom: Disable IPv6 interface when duplicate address is detected.		
Probability: Low		
Feature: OS Services	Function: IPV6	
Reported In Release: FOS6.3.1		
•		
Defect ID: DEFECT000326502	Technical Severity: Medium	
Summary: Not able to commit more than 28 rules to the Classifier simultaneously.		
Symptom: Customer will not able to commit more than 28 rules to the Classifier simultaneously.		
Workaround: when more than 28, rules may be applied in multiple iterations		
Probability: High		
Feature: CEE-MANAGEABILITY	Function: CAL INTERFACE	
Reported In Release: FOS6.3.1_cee		

Defect ID: DEFECT000330570

Technical Severity: Medium

Summary: M8428-K: with multiple vlan classifier groups assigned to a single interface, removing one vlan classifier group from the interface will cause that interface to be removed from the assigned vlan which belong to a different vlan classifier group currently

Symptom: M8428-K: with multiple vlan classifier groups assigned to a single interface, removing one vlan

Symptom: M8428-K: with multiple vlan classifier groups assigned to a single interface, removing one vlan classifier group from the interface will cause that interface to be removed from the assigned vlan which belong to a different vlan classifier group currently still active on that interface.

Probability: Medium

Feature: CEE-LAYER2 Function: VLAN

Reported In Release: FOS6.3.1_dcb

Defect ID: DEFECT000333441

Technical Severity: Medium

Summary: M8428k: 10G Broadcom LOM configured at 1G fixed speed failed to come online after server reboot

Symptom: 10G Broadcom LOM configured at 1G fixed speed failed to come online after server reboot

Probability: Low

Feature: FOS

Function: Platform

Reported In Release: FOS6.3.1_dcb

Defect ID: DEFECT000337192 Technical Severity: Medium

Summary: M8428k: switch reboot shows hsi_error in errdumpall

Symptom: hsi_error may be seen in the errdumpall output.

Probability: Medium

Feature: CEE-Infrastructure Function: eAnvil Driver

Reported In Release: FOS6.3.1_dcb

Defect ID: DEFECT000337329

Technical Severity: Medium

Nummary: M8428k: renegotiation to 1G instead of 10G when loading the Windows driver for Broadcom LOM or doing PXE boot

Symptom: AN to 1G after server reboot.

Probability: Low

Feature: CEE-PLATFORM
Function: ENET SWITCH DRIVER

Reported In Release: FOS6.3.1_dcb

Defect ID: DEFECT000337353

Technical Severity: Medium

Summary: M8428k: CMC serial interface occasionally fails to log in

Symptom: No login via serial console

Feature: CEE-PLATFORM

Function: SYSTEM CONTROL

Reported In Release: FOS6.3.1_dcb

Defect ID: DEFECT000349307 Technical Severity: Medium

Summary: M8428k: CMC can't access the internal VLAN interface

Symptom: CMC can't access the VLAN interface on the management port of the switch.

Probability: Medium

Feature: CEE-PLATFORM Function: SYSTEM CONTROL

Reported In Release: FOS6.3.1_dcb

Defect ID: DEFECT000352679	Technical Severity: Medium		
Summary: Update Transparent IOM Behavior			
Symptom: Strip out any blanks from the XML response a	tom: Strip out any blanks from the XML response and respond even if request is received prior to fabric		
merge	merge		
Probability: High			
Feature: FOS Function: Embedded			
Reported In Release: FOS6.3.1_dcb			

Defect ID: DEFECT000354181	Technical Severity: Medium	
Summary: Interop with M8428-k has 1G link speed when	NC-SI is enabled & driver toggled	
Symptom: Interop with M8428-k has 1G link speed when	mptom: Interop with M8428-k has 1G link speed when NC-SI is enabled & driver toggled on broadcom	
Probability: Low		
Feature: CEE-BLADE CENTER	Function: 10G Autonegotiation	
Reported In Release: FOS6.3.1_del		

Defect ID: DEFECT000354585	Technical Severity: Medium	
Summary: M8428k with revb eanvil sometimes negotiate	to 1G instead of 10G with Qlogic mezz	
Symptom: May negotiate to 1G instead of 10G with Qlogic mezz.		
Probability: Low		
Feature: FOS	Function: ASICs	
Reported In Release: FOS6.3.1_dcb		

Defect ID: DEFECT000359532	Technical Severity: Medium	
Summary: Centaur: IOM transparency HDL should be supported		
Symptom: IOM transparency HDL should be supported		
Probability: High		
Feature: FOS	Function: Embedded	
Reported In Release: FOS6.3.1_dcb		

Defect ID: DEFECT000360913	Technical Severity: Medium
Summary: supportsave did not capture regdump	
Symptom: missing supportsave information	
Probability: High	
Feature: FOS	Function: Platform
Reported In Release: FOS6.3.1_dcb	

Defect ID: DEFECT000360948	Technical Severity: Medium	
Summary: CLI "enclosureshow modelid" has mispell word "serail" in the output		
Symptom: CLI "enclosureshow modelid" has mispell word "serail" in the output		
Probability: Medium		
Feature: FOS	Function: Platform	
Reported In Release: FOS6.3.1_dcb	_	

Open Defects in Fabric OS v6.3.1_dcb

This section lists defects with Critical, High and Medium Technical Severity open in Fabric OS v6.3.1_dcb.

Note that when a workaround to an issue is available, it is provided; otherwise, no recommended workaround is available at this time.

Defect ID:	DEFECT000327358	Fechnical Severity: Medium
Summary:	Qlogic 10G Mezz & LOM failed to come online and back to AN	e after speed negotiation changed from AN to 1G fixed
Symptom:	: Port fails to come online	
Workaround: Reboot the Server.		
Feature: F	Feature: FOS Function: Platform	
Reported I	n Release: FOS6.3.1_dcb	Probability: Low

Defect ID: DEFE	CT000333441	Technical Severity: Medium	
Summary: 10G E	broadcom LOM configured at 1G fixed s	speed failed to come online after server reboot .	
Symptom: Port fa	Symptom: Port fails to come online when port is configured at 1G fixed		
Workaround: Reboot the server			
Feature: FOS		Function: Platform	
Reported In Relea	se: FOS6.3.1_dcb	Probability: Low	

Defect ID:	DEFECT000333563	Technical Severity: Medium
Summary:		observed on Windows 2008 Enterprise 64-bit when both
ŭ	FCoE traffic and Ethernet traffic is pumped or	n an interface and FCoE target is not able to keep up.
Symptom:	Port statistics may show some discarded fram	es
Feature: C	EE-LAYER2	Function: L2 SUBSYSTEM
Reported I	n Release: FOS6.3.1_dcb	Probability: Medium

Open Defects from Fabric OS v6.3.1_del

This section lists defects with Critical, High and Medium Technical Severity open from Fabric OS v6.3.1_del that are still open in Fabric OS v6.3.1_dcb.

Defect ID: DEFECT000317081	Technical Severity: High	
Summary: With specific L3 forwarding configuration,	ry: With specific L3 forwarding configuration, switch may end up sending chassis MAC instead of	
interface MAC causing traffic drop		
Symptom: traffic drop if IP forwarding is configured.		
Workaround: Program the static MAC address of the receiving port at the source MAC (forces the switch to use		
correct MAC address for forwarding)		
Feature: CEE-LAYER3	Function: L3 SUBSYSTEM	
Reported In Release: FOS6.3.1_del	Probability: High	

Defect ID:	DEFECT000317574	Technical Severity: Medium	
Summary:	Webtool, Port Administration>CEE Interface, Ports in a LAG may be shown as LAG negotiating		
	failed although LAG was formed successfully.		
Symptom:	Ports in a LAG may be shown as LAG negotiating failed on web gui although LAG was formed		
	successfully		
Workaround: CLI may be used.			
Feature: C	EE-Protocol	Function: NSM	
Reported In	Release: FOS6.3.1_del	Probability: Medium	

Defect ID: D	DEFECT000318097	Technical Severity: Medium
Summary: T	he Internal CEE port speed is set as Auto N	10, but the webtools display the CEE port speed is set as
fi	xed 10G	
Symptom: In	ternal Port is displayed as 10G Fixed on the	GUI
Workaround: Use CLI "show interface in <port>"</port>		
Feature: CEE	E-Protocol	Function: NSM
Reported In R	Release: FOS6.3.1_del	Probability: High

Defect ID:	DEFECT000309787	Technical Severity: Medium	
Summary:	Under extremely rare conditions, launching	Webtools may show "Exception in thread "AWT-	
	EventQueue-0" java.lang.NullPointerExcepti	on" on Java Console	
Symptom:	Symptom: Unresponsive webtools for some period of time (few seconds).		
Feature: V	VebMgmt	Function: Switch Explorer/Switch View	
Reported In	n Release: FOS6.3.1_del	Probability: Medium	

Defect ID:	DEFECT000311050	Technical Severity: Medium
Summary:	Pref port failback happens as expected but w	ith may print under certain conditions incorrect RAS log
	messages on the console showing that the con-	nfigured and preferred port for a F_Port are the same
Symptom: Incorrect port number in the RASLOG message		
Feature: F	CoE-AG	Function: FCoE AG
Reported In	n Release: FOS6.3.1_del	Probability: High

Defect ID:	DEFECT000312411	Technical Severity: Medium	
Summary:	Command "show spanning -tree protocol" ma	ay showup as "(Peer_STP)P2P" instead of P2P for the	
	peer that has deleted spanning tree protocol a	fter following specific set of steps.	
Symptom:	Symptom: Command "show spanning -tree protocol" may showup as "(Peer_STP)P2P" instead of P2P		
Feature: C	CEE-LAYER2	Function: STP	
Reported In	n Release: FOS6.3.1_del	Probability: High	

Defect ID:	DEFECT000313668	Technical Severity: Medium
Summary:	RFE: Disabling port mirroring on FC ports should prompt for user comfirmation similar to when	
	enabling.	
Symptom:	Symptom: Disabling port mirroring on FC ports does not prompt user for confirmation.	
Feature: F	OS	Function: Platform
Reported I	Release: FOS6.3.1_del	Probability: Medium

Defect ID:	DEFECT000313901	Technical Severity: Medium	
Summary:	cmsh speed command should display error message when entered invalid speed 1, 10, 100 for internal		
	ports		
Symptom:	Symptom: No error message		
Feature: C	EE-Protocol	Function: NSM	
Reported In	Release: FOS6.3.1_del	Probability: Medium	

Defect ID:	DEFECT000313979	Technical Severity: Medium
Summary:	select TE port in Port Administration window may under very rare conditions cause "IOException:	
	Server is not available"	
Symptom:	Symptom: Webtools not responsive for some period of time	
Workaround: Select different port and then reselect the same port.		
Feature: C	Feature: CEE-MANAGEABILITY Function: WEBMGMT	
Reported In	Reported In Release: FOS6.3.1_del Probability: Low	

Defect ID:	DEFECT000314429	Technical Severity: Medium
Summary:	From webtool, there is no option to change L	AG type from static to dynamic while CLI offer that
	option	
Symptom: No option to change LAG type from static to dynamic from GUI		
Workaround: From CLI, LAG can be changed from static to dynamic or vice versa		
Feature: \	Feature: WebMgmt Function: Ports Admin	
Reported I	n Release: FOS6.3.1_del	Probability: High

Defect ID:	DEFECT000314627	Technical Severity: Medium	
Summary:	Webtools: If more than one external port is c	onfigured in the port association dialog, "operational	
	failed track interface configuration fails" error	or message is thrown.	
Symptom:	Symptom: Not able to batch configure multiple external ports in the port association dialog.		
Workaround: configure one port at a time from port association dialog box.			
Feature: (EE-MANAGEABILITY	Function: CAL INTERFACE	
Reported I	Release: FOS6.3.1_del	Probability: High	

Defect ID: DEFECT000314642	Technical Severity: Medium	
Summary: CLI accepts all invalid characters for login g	roup name	
Symptom: customer may configure login group name with invalid characters.		
Feature: CEE-FCOE	Function: FCOE Daemon	
Reported In Release: FOS6.3.1_del	Probability: High	

Defect ID:	DEFECT000316041	Technical Severity: Medium
Summary	incorrect console log indicating Port-channel	is created during the deletion process of the port-channel
	performed by cli "no interface port-channel"	
Symptom:	may see an incorrect console log indicating Port-channel is created during the deletion process of the	
	port-channel performed by cli "no interface port-channel"	
Feature:	CEE-LAYER2	Function: LAG/TRUNKING
Reported 1	In Release: FOS6.3.1_del	Probability: Medium

Defect ID:	DEFECT000319441	Technical Severity: Medium
Summary:	M8428k-Centaur: QOS rcv-queue on interface display incorrect cos# for incoming frames with Cos#0	
	and Cos#1	
Symptom:	M8428k-Centaur: QOS rcv-queue on interface display incorrect cos# for incoming frames with Cos#0	
	and Cos#1 when using "sh qos rcv-queue int".	
Workaround: Use "sh qos queue int" command instead.		
Feature: 0	CEE-LAYER2	Function: L2 SUBSYSTEM
Reported I	n Release: FOS6.3.1_del	Probability: High

Defect ID: DEFECT000320066	Technical Severity: Medium	
Summary: Configdownload would not restore Port Mirroring configuration in native mode.		
Symptom: Port Mirroring configuration would not be restored after configdownload		
Workaround: Reconfigure port mirroring configuration.		
Feature: FOS Function: Embedded		
Reported In Release: FOS6.3.1_del	Probability: High	

Defect ID:	DEFECT000322609	Technical Severity: Medium
Summary:	authFailWhileAuthenticating counter in the dot1x diagnostics would not update when the switch failed	
	to Authenticate.	
Symptom: authFailWhileAuthenticating counter in the dot1x diagnostics not updated appropriately.		
Feature: C	CEE-802.1X-SECURITY	Function: AUTHD
Reported In	n Release: FOS6.3.1_del	Probability: High