



Brocade[®] Fabric OS[®] Features and Standards Support Matrix, 8.2.x

**Compatibility Document
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Introduction

About This Document

The *Brocade Fabric OS Features and Standards Support Matrix* provides a high-level, consolidated view of all features supported on Brocade® Fibre Channel platforms that run Fabric OS® software 8.2.x. Use the tables in this reference manual to determine if a feature is supported on your product.

How Each Feature Is Marked in the Support Tables	Description
Fabric OS (FOS) Version	The feature is introduced in the specified FOS version for the platforms specified for that column. For example, the REST API feature was introduced in FOS 8.2.0 for the Gen 6 and Gen 5 platforms. For FOS features supported earlier, FOS 8.1.0 is considered the minimum supported version, meaning that the listed features will use FOS 8.1.0 or later as the supported versions.
No	The feature is not supported for the particular release on the platforms specified for that column. For example, the management interface rate limiting feature is not supported in the Gen 5 platforms but is supported in the Gen 6 directors.
N/A	The feature is not supported for any release on the platforms specified for that column. For example, Access Gateway mode is not supported in any directors or chassis.

NOTE

When a feature is listed as being introduced in a particular version, the feature continues to be supported on all subsequent versions unless specified otherwise.

What Is New in This Document

Starting with this release, all new modified content is listed in the "Revision History" section at the end of this document.

Supported Hardware and Software

The following table lists the Brocade product type, platforms, and minimum supported FOS versions for each platform.

Table 1: Minimum Supported Fabric OS Version for Brocade Platforms by Category

Product Type	Gen 5 Platform		Gen 6 Platform	
	16Gb/s Device	Earliest Supported OS	32Gb/s Device	Earliest Supported OS
Fixed-Port Switches	Brocade 6505	8.1.0	Brocade G630	8.2.0
	Brocade 6510	8.1.0	Brocade G610	8.1.0

Product Type	Gen 5 Platform		Gen 6 Platform	
	16Gb/s Device	Earliest Supported OS	32Gb/s Device	Earliest Supported OS
	Brocade 6520	8.1.0	Brocade G620	8.1.0
Backbones/Directors	Brocade DCX 8510-4 and Brocade DCX 8510-8 with the following blades: • Brocade FC16-32 Port Blade • Brocade FC16-48 Port Blade • Brocade FC16-64 Port Blade • Brocade FX8-24 Extension Blade • Brocade FCOE10-24 Blade	8.1.0	Brocade X6-4 and Brocade X6-8 with the following blades: • Brocade SX6 Extension Blade • Brocade FC32-48 Port Blade • Brocade FC32-64 Port Blade	8.1.0
Blade Server SAN I/O Modules	Brocade M6505	8.1.0	N/A	N/A
	Brocade 5430	8.1.0		
	Brocade 5431	8.1.0		
	Brocade 5432	8.1.0		
	Brocade 6543	8.1.0		
	Brocade 6545	8.1.0		
	Brocade 6546	8.1.0		
	Brocade 6547	8.1.0		
	Brocade 6548	8.1.0		
	Brocade 6549	8.1.0		
	Brocade 6559	8.1.0		
Extension Switches	Brocade 7840	8.1.0	Brocade 7810	8.2.1

Contacting Technical Support for Your Brocade® Product

For product support information and the latest information on contacting the Technical Assistance Center, go to <https://www.broadcom.com/support/fibre-channel-networking/>. If you have purchased Brocade® product support directly from Broadcom, use one of the following methods to contact the Technical Assistance Center 24x7.

Online	Telephone
For nonurgent issues, the preferred method is to log in to myBroadcom at https://www.broadcom.com/mybroadcom. (You must initially register to gain access to the Customer Support Portal.) Once there, select Customer Support Portal > Support Portal. You will now be able to navigate to the following sites: • Knowledge Search: Clicking the top-right magnifying glass brings up a search bar. • Case Management: The legacy MyBrocade case management tool (MyCases) has been replaced with the Fibre Channel Networking case management tool. • DocSafe: You can download software and documentation. • Other Resources: Licensing Portal (top), SAN Health (top and bottom), Communities (top), Education (top).	Required for Severity 1 (critical) issues: Please call Fibre Channel Networking Global Support at one of the numbers listed at https://www.broadcom.com/support/fibre-channel-networking/.

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Document Feedback

Quality is our first concern. We have made every effort to ensure the accuracy and completeness of this document. However, if you find an error or an omission or if you think that a topic needs further development, we want to hear from you. Send your feedback to documentation.pdl@broadcom.com. Provide the publication title, publication number, topic heading, page number, and as much detail as possible.

Extension

Extension Security

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Support on VE_Ports 22 through 31 (supported on FX8-24 devices only)	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	No
Performance increases with near line-rate throughput	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
IPsec configuration through a policy applied to an FCIP tunnel	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
FCIP/IP Extension Encryption							
Support for FIPS-140 level 2 certification (not supported in FIPS mode).	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Support for VE_Port encryption (IPsec)	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Setting accepted cryptographic algorithms for the SSH and HTTPS protocols on a switch	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1

FCIP - Fibre Channel over IP

NOTE

FCIP is supported on Gen 5 chassis when a Brocade FX8-24 Extension Blade has been installed. FCIP is supported on Gen 6 chassis when a Brocade SX6 Extension Blade has been installed.

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Open systems tape pipelining (OSTP)	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
IPv6 support for FCIP ports	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
VEX_Port (virtual EX_Port) support	N/A	8.1.0	N/A	No	N/A	No	No
DSCP markings support	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
10GigE lossless failover	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	No
Multi-gigabit circuits	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Auto-mode option for compression	N/A	8.1.0	N/A	No	N/A	No	8.2.1
Relaxed sub-net restrictions	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
ESCON tape using the Optica Prizm ESCON-to-FICON converter	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	No
FCIP enforcement of error detection time-out value (ED_TOV) for FC frames	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Maximum 40G WAN throughput	N/A	No (20G max with the FX8-24 blade)	N/A	8.1.0	N/A	8.1.0	8.2.1 2.5Gb/s
Maximum 20G bandwidth on a VE_Port	N/A	No (10G bandwidth on a VE_Port with the FX8-24 blade)	N/A	8.1.0	N/A	8.1.0	8.2.1 2.5Gb/s
Ethernet jumbo frames	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
User-specified increase of compression performance on FC data frames before sending through FCIP channels	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1 (Fast Deflate is not supported on the Brocade 7810.)
Stream-based flow control to isolate slow devices from affecting performance for emulated devices sharing the same VE_Port	N/A	8.1.0 (Not supported on the FX8-24 blade)	N/A	8.1.0	N/A	8.1.0	8.2.1
Out-of-order TCP delivery	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Extension Hot Code Load (eHCL) (nondisruptive firmware download)	N/A	No	N/A	8.1.0	N/A	8.1.0	No (If connected to a Brocade 7840 or an SX6 blade, it supports remote HCL for the connected switch.)
FastWrite	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Traffic control list (TCL) to manage and route IP flows	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Adaptive Rate Limiting (ARL)	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
LAN-side jumbo frames	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
IPv4 support for LAN side	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
IPv6 support for LAN side	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
DSCP/VLAN L2CoS marking	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Segment preservation	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Support for untagged and single-tagged packets	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Multiple LAN ports assigned to the same LAG group	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
XISL support	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	No
Ability to use VE_Ports as XISLs	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	No
Automatic discovery of IP MTU settings over the WAN	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Hybrid mode with IPEXT tunnels	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Flow Monitor support for VE_Port	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Nondisruptive firmware download for IP extension	N/A	No	N/A	8.1.0	N/A	8.1.0	No
Support for an IKE profile for 192-bit security with algorithms for key generation, encryption, and integrity under IPsec for Suite-B compliance	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
IPsec configuration for preshared or PKI authentication methods, including restarting any IKE sessions that are in an inactive state	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Support for 16 logical switches (LSs) per X6 Director, including support for SX6 extension blades in an X6 Director to share Ethernet ports in a default switch by VEs from other LSs and to share VE over XISL	N/A	No	N/A	No	N/A	8.1.0	No
Support for the VM Insight frame header with all emulated FCP I/O sequences on 7840 or SX6 VE ports	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Support for a 31-bit subnet mask (/31) to be assigned to a point-to-point IP network	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Monitoring performance on Ethernet ports	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Defining a compound set of CLI filters for use with extension commands	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
CLI filters for VLAN ID, OperStatus of an extension tunnel/circuit, and IP address prefix or mask	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
User-defined app types for TCL definitions, per-flow statistics, and filtering	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
ARL algorithm: Modified multiplicative decrease	N/A	8.1.0	N/A	8.1.0	N/A	No	No
ARL algorithm: Time-based decrease	N/A	8.1.0	N/A	8.1.0	N/A	No	No

FCIP Tunnel Management

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Configuring tunnels for either IPv4 or IPv6	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Configuring tunnels to support VLAN tagging	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Increase in committed rate of tunnel utilization	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
IPsec support for FCIP tunnels	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Configurable QoS for FCIP tunnels	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
tperf diagnostic CLI command	N/A	8.1.0	N/A	No	N/A	No	No
User-defined failover group that includes a subset of the circuits in the FCIP tunnel	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Failover configuration that allows a mixture of metric 0 and metric 1 circuits for use during metric 0 circuit failure	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
Tunnel configuration for IP extension	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Spillover circuits	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
IP Extension Flow Monitor	N/A	No	N/A	8.2.0	N/A	8.2.0	8.2.1
LLDP and LACP	N/A	No	N/A	8.2.1 (Supported only on the Brocade 7840)	N/A	8.2.1	8.2.1

WAN Analysis Tools

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Tool for testing traffic over a pair of IP addresses to test a WAN path	N/A	8.1.0	N/A	8.1.0	N/A	8.1.0	8.2.1
DSCP/VLAN tagging of user-defined WAN tool sessions	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Automated WAN tool/service-level agreement	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Connecting as an initiator or listener	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Show statistics of both local and remote peers	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Show configured and negotiated SLA configuration for the session in the detailed command output	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1
Show the packet drop percentage of the last 3-second sample period in the detailed command output	N/A	No	N/A	8.1.0	N/A	8.1.0	8.2.1

Management

Access Gateway

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches ^a	Gen 6 Directors	Gen 6 Extension Switch
Automatic port configuration policy	8.1.0	N/A ^b	8.1.0	N/A	8.1.0	N/A	N/A
Port grouping and preferred N_Port failover policy	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Multiple fabric support	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
N_Port trunking support	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Advanced device security policy	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
16-bit routing support	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Access Gateway cascading support	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Per-port NPIV login limit	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Balancing WWN logins from a single NPIV port across multiple N_Ports	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Configuring the NPIV login limit for individual ports	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Detection of unreliable N_Port links	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
APM end-to-end monitoring support	8.1.0	N/A	8.1.0	N/A	No	N/A	N/A
APM frame monitoring support	8.1.0	N/A	8.1.0	N/A	No	N/A	N/A
RADIUS/LDAP support	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
D_Port support between 16G AG and 16G switch or between two 16G AGs	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
FEC support for 16G FC platforms configured in AG	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Buffer credit loss recovery on AG	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Authentication between an AG and a switch or HBA	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Assessment of SFP and cable health	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Detection and prevention of duplicate PWWNs at login	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Dynamic D_Port on links connecting to HBAs	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A

a. The Brocade G630 platform does not support Access Gateway (AG) mode.

b. AG mode is not supported in directors and extension switches.

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches ^a	Gen 6 Directors	Gen 6 Extension Switch
Fabric Device Management Interface (FDMI) data access on AG	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
F_Port static mapping	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Remote execution of commands on an AG from a domain in the attached fabric	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Flow Mirror on AG: LFM and CFM	8.1.0	N/A	8.1.0	N/A	8.1.0	N/A	N/A
Slow-Drain Device Quarantine on AG	8.2.1	N/A	8.2.1	N/A	8.2.1	N/A	N/A
Support for the NPIV configuration ability for a switch in AG mode	8.2.1	N/A	8.2.1	N/A	8.2.1	N/A	N/A

CLI - Command Line Interface

Feature	Gen 5 Fixed-Port Switches	Gen 5 Director (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Director	Gen 6 Extension Switch
CLI support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Configuration Fundamentals

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Port and port peer beaconing	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Telnet	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Longer port-name support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
portAutoDisable	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
E_Port authentication	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Boot PROM password	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Ethernet interface	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Dynamic definition of user roles	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Names assigned to logical fabrics	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
10G FC capability	8.1.0	8.1.0	8.1.0	No	8.1.0	8.1.0	No
Support for DCX 8510 chassis in a full mesh configuration using the optical ICLs	No	8.1.0	No	No	N/A	N/A	N/A

a. The Brocade G630 platform does not support Access Gateway (AG) mode.

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Support for ICL connectivity with DCX 8510 chassis in a core-edge topology	No	8.1.0	No	No	N/A	N/A	N/A
Assign individual ports of an optical ICL to logical switches	No	8.1.0	No	No	No	8.1.0	No
Replace a zone member (WWN/D,I) with another member	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Specify a collection of zone aliases as input instead of a single alias member	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
List details and/or differences between the transaction buffer and the committed/saved zone database	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Alert users during configuration edits to reduce the risk of having mismatched effective zone configurations in the same fabric when merging a switch into a fabric	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Alert users when multiple users attempt to simultaneously configure or reconfigure zone sets in more than one switch of a fabric	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Display accurate path information concerning FCR configurations	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Port numbers in a hexadecimal format	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Set a switch to the disabled state and not actually disable the switch until it is subsequently disabled or it reboots (persistent disable)	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Fabric alias names for edge fabric IDs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Extended range for front domain IDs and translate domain IDs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Dynamic switch port names	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Support de-bouncing of loss of signal for fixed-speed and auto-negotiate ports	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Persistent configuration of slots	No	No	No	No	8.1.0	8.1.0	8.2.1
Support for QSFP connections to ICL ports	No	No	8.1.0	No	No	8.1.0	No
Management port ingress rate limiting support	No	No	No	No	8.2.1	8.2.1	8.2.1

FA-PWWN - Fabric-Assisted Port WWN

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Dynamic Fabric Provision - Fabric-Assigned WWN	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Detection and resolution of duplicate WWNs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Fibre Channel Addressing

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Fibre Channel addressing support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Fibre Channel Services

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Management server	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Name server	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Topology discovery	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Management server support of the Get Fabric Object (GFO) command of the FC-GS-7s standard	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Name server device display output includes the FC-4 type of Application Services, NVMe, and various FICON (FC-SB) values	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Management interface rate limiting (DOS attack prevention through Ethernet management interfaces)	No	No	No	No	No	8.2.1	No

High Availability

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
High Availability support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Disruptive upgrade of DCX to DCX 8510	No	8.1.0	No	No	No	No	No

Inband Management

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors (Backbones)	Gen 6 Extension Switch
Inband management support	8.1.0	8.1.0	8.1.0	No	8.1.0	No	No

Management GUI

Feature	Gen 5 Fixed-Port Switches	Gen 5 Backbones	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Web Tools GUI support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Management Interfaces

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Management interface support: • ARP • DHCPv4 • DHCPv6 • DNS • IPv4 addressing • IPv6 addressing • IPsec	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

NPIV - N_Port ID Virtualization

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
NPIV – N_Port ID Virtualization support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

NTP - Network Time Protocol

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Server configuration distribution to Access Gateway switches	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

REST API

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
REST API support	8.2.0	8.2.0	8.2.0	8.2.0	8.2.0	8.2.0	8.2.1

SNMP - Simple Network Management Protocol

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
SNMPv1	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
SNMPv3	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
MIBs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Log messages for SNMPv3 authentication	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
SNMPv3 individual inform tag	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Disable SNMP write access	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Online/offline status of a port reported independently from the value of ifAdminStatus	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
SCP/SFTP protocol for MIB objects used to initiate firmware download through SNMP (supported only in the Brocade 6547 switch)	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Encryption for SNMPv3 user authentication and privacy passwords	No	No	No	No	8.1.0	8.1.0	8.2.1

Software Installation and Upgrade

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
SFTP/SCP/FTP support for downloading firmware and uploading and downloading configurations	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Hot Code Load (HCL) – nondisruptive firmware download	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
History tracking of firmware versions installed on each switch	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Multiple sites for FCIP HCL	8.1.0	8.1.0	8.1.0	8.1.0	No	No	No
Staged firmware download	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Firmware clean installation	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Firmware auto-sync on a standby CP with a different version than the active CP	No	8.1.0	No	No	No	8.1.0	No
Firmware integrity check	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Preservation of port2area and area2port mappings during configuration upload and download	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Configuration upload and download support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Virtual Fabrics

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port switches	Gen 6 Directors	Gen 6 Extension Switch
Dynamic Area Addressing support for the default switch	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	No
Use of the switch name to set the logical switch context when switching the context between logical switches within a physical switch	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	No
Create a new logical switch with LISL disabled	No	No	No	No	8.1.0	8.1.0	No

Monitoring

ClearLink® Diagnostic Port (D_Port)

NOTE

ClearLink Diagnostic Port (D_Port) is supported on ISLs between Fibre Channel platforms that use Brocade-branded 16G SFP+ or higher optics.

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
ClearLink Diagnostic Port (D_Port) on ISLs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Support between a Brocade 16G Fabric Adapter and a Brocade 16G FC switch	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
D_Port link saturation capability	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
D_Port on optical ICLs	No	8.1.0	No	No	No	8.1.0	No
User-specified number of frames, frame size, test duration, and other test options	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Support for platforms configured as Access Gateways (AGs)	8.1.0	No	No	No	8.1.0	No	No
D_Port between AG enabled on a 16G FC platform and a 16G FC switch	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Dynamic D_Port support between a Brocade 16G HBA and a Brocade 16G switch	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Clearlink Diagnostic Port (D_Port) capability with 8G Long Wave Length (LWL) and Extended Long Wave Length (ELWL) SFPs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
D_Port integration with MAPS	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Dynamic D_Port and on-demand D_Port on ISLs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
D_Port provision list configured by CLI command	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
D_Port test results identify the loopback connection type or remote port index	8.1.0	No	No	No	8.1.0	8.1.0	8.2.1
D_Port test on the FC-compliant QSFPs	No	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	No

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
ClearLink Diagnostic Port (D_Port) on all FC ports to Access Gateway	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Link power (dB) loss calculation	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Dynamic D_Port and on-demand D_Port with DWDM	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
CLI command hierarchical help display	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Flow Vision

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Flow Generator: - Generating test traffic - Pretesting of the SAN infrastructure - Configuring a 16G FC-capable port as a simulated device - Emulating a 16G SAN	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Flow Mirror: Mirroring of application flows – Nondisruptive copying of application flows	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Flow Monitor: - Monitoring application flows and providing statistics - Monitoring of frame types at a switch port - Integration with MAPS	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Flow monitoring on E_Ports and EX_Ports	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Flow monitoring for static and learning flows on the XISL ports and the backbone E_Ports	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
The local Flow Mirror feature mirrors application flows to a mirror port on the same local switch where the flows are defined	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Predefined flow to generate test traffic from every SIM port in a switch to other SIM ports	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Creating without activating a duplicate flow definition	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Full Flow Vision capabilities on all FC ports	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
The Remote Flow Mirror feature mirrors remote flows	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
All F_Port flow monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Identify all devices in a flow	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Fabric flow dashboard	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Simultaneous remote flow mirroring of VTAP frames belonging to multiple VFs	8.1.0	8.1.0	8.1.0	No	8.1.0	8.1.0	No
IO Insight metrics monitoring	No	No	No	No	8.1.0 (Not supported on the Brocade G610)	8.1.0	8.2.1
Adding SRR frame used for flow monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Virtual E_Port monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Flow Monitor support for VM Insight to identify, monitor, and troubleshoot VM flows	No	No	No	No	8.1.0	8.1.0	8.2.1
Flow Mirror support on switches in Access Gateway mode	No	No	No	No	8.1.0	8.1.0	8.2.1
Remote flow mirroring supports in-flight encryption or compression when it co-exists on the same Gen 5 ASIC with vTap	No	No	No	No	8.1.0	8.1.0	8.2.1
Exchanging SIM port parameters across FCR in edge-to-edge topology only, allowing Flow Generator to generate flow traffic in FCR edge-to-edge topologies	No	No	No	No	8.1.0	8.1.0	8.2.1
CFM support for trunk groups	No	No	No	No	8.2.0	8.2.0	No
LFM support for trunk groups	No	No	No	No	8.2.0	8.2.0	No
NVMe flow monitoring	No	No	No	No	8.2.0	8.2.0	8.2.1
Flow definitions for IT and ITN NVMe flows	No	No	No	No	8.2.0	8.2.0	8.2.1

Hardware Monitoring

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Power-on self-test (POST)	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Real-time power monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Back-end link failure: re-initializing a link and the faulting blade only if the link fails	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Read diagnostics parameter (RDP) support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Sending requests through RLS when RDP is not supported by end devices	No	No	No	No	8.1.0	8.1.0	8.2.1
RDP request support for E-ports in FICON environment	No	No	No	No	8.1.0	8.1.0	No

MAPS - Monitoring and Alerting Policy Suite

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Policy-based monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
CLI dashboard	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Monitor FCIP statistics	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Proactive flow monitoring using MAPS	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Bottleneck detection integration with the MAPS dashboard	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Monitor Fabric Performance Impact (FPI) due to bottleneck conditions	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Monitor fabric scalability limits	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Monitor Ethernet management ports	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Monitor Flow Vision learning flows	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Dynamic groups	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Port group augmentation	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
MAPS for FCIP QoS, tunnels, and circuits	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Basic monitoring without a Fabric Vision® license	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Monitoring of NPIV device login limits	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Monitoring back-end ports errors	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Monitoring FCIP circuit QoS parameters at the circuit level	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Monitoring FCIP circuit RTT and jitter	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
FPI latency counter monitoring and notification when latency conditions are cleared	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Slow-drain device quarantine action for Fabric Performance Impact monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Port toggle action for Fabric Performance Impact monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
FICON notification action	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	No
Alert quiet time support for actions	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Back-end port monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Fenced circuits in dashboard	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Extension GE_Port monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Security certificate monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Quiet time support for SNMP action	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
MAPS IPEXT monitoring	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Tunnel-to-tunnel QoS on all FCIP platforms	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
IO Insight metrics monitoring	No	No	No	No	8.1.0 (Not supported on the Brocade G610)	8.1.0	8.2.1
Monitoring of fan air-flow direction	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Monitoring of zoned device ratio and oversubscription of bandwidth	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
VM Insight flow monitoring to identify, monitor, and troubleshoot VM flows	No	No	No	No	8.1.0	8.1.0	8.2.1
Rule-on-Rule (RoR) rules that monitor base MAPS rules	No	No	No	No	8.1.0	8.1.0	8.2.1
Configurable MAPS alert severity for alert messages in user-defined rules	No	No	No	No	8.1.0	8.1.0	8.2.1
Ability to clone in one step all the rules associated with a logical group	No	No	No	No	8.1.0	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Port TX, RX, and UTIL statistics supported with timebase of "minute"	No	No	No	No	8.1.0	8.1.0	8.2.1
Monitoring of ISL in-flight encryption feature of X6 Directors	No	No	No	No	No	8.1.0	8.2.1
SNMP traps for MAPS quiet-time expiration	No	No	No	No	8.1.0	8.1.0	8.2.1
Ability to uninstall vTap with a MAPS action	No	No	No	No	8.1.0	8.1.0	8.2.1
FPI monitoring: Ability to automatically move a previously quarantined slow-draining device out of quarantine, based on a user-defined timeout period.	No	No	No	No	8.1.0	8.1.0	8.2.1
Custom RASLog	No	No	No	No	8.2.0	8.2.0	8.2.1
Congestion dashboard	No	No	No	No	8.2.0	8.2.0	8.2.1
Monitoring UCS uplink distribution to a Brocade SAN	8.2.1	8.2.1	8.2.1	8.2.1	8.2.1	8.2.1	8.2.1

RAS - Reliability, Availability, and Serviceability

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Audit log support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Automatic trace dump transfers	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Port log support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
supportShow CLI command support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Frame monitoring support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
SuperPing support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Rolling Reboot Detection (RRD)	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Spinfab diagnostics ability to test ISLs at higher link utilization by using all buffers available at a port	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Fabric OS version added to audit log messages	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
DCB/CEE configuration events included in audit log	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Frame Viewer	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
View statistics for a specific time period for tunnels, circuits, and TCP connections	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
SFP monitoring support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
RASLog support: • Suppress a RASLog message • Change the RASLog message default severity • View a RASLog message description on a switch console • Filter RASLog messages based on slot, severity, and other options	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Persistent history across reboots and firmware downloads	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
CLI history enhancement to save additional information during command execution on a switch	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Inclusion in the audit log of each command executed on the switch from a nonroot account	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Display the time when port statistics were last cleared	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Updating port counter values when ports come online	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Violation handling for trunk ports	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Automatic sync of firmware on a CP	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Detect and disallow a rolling reboot in the disabled Fabric OS switch state	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
CLI command to clear statistics counters and logs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Integrity checking of WWN cards	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Frame Viewer support for identifying, monitoring, and troubleshooting VM flows	No	No	No	No	8.1.0	8.1.0	8.2.1
Additional audit log messages for the operational state and configuration changes of switches, blades, slots, and ports when initiated by administrators.	No	No	No	No	8.1.0	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Output of <code>portbuffer</code> <code>show</code> command added to <code>supportsave</code> capture for troubleshooting	No	No	No	No	8.1.0	8.1.0	8.2.1
RASLog message sent when multiple RDY/frame loss is detected	No	No	No	No	8.1.0	8.1.0	8.2.1
High-voltage AC/DC power supply support	No	No	No	No	No	8.1.0	8.2.1

Syslog

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port switches	Gen 6 Directors	Gen 6 Extension Switch
Audit log support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Importing/exporting syslog server certificate to support secure syslog over TLS	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Routing

FCR - Fibre Channel Routing

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors (Backbones)	Gen 6 Extension Switch
VCS/VDX6730 to FC SAN connectivity (interopmode 5)	8.1.0 (Not supported after 8.2.0)	8.1.0 (Not supported after 8.2.0)	8.1.0 (Not supported after 8.2.0)	8.1.0 (Not supported after 8.2.0)	8.1.0 (G620 only) (Not supported after 8.2.0)	8.1.0 (Not supported after 8.2.0)	No
FC-FC routing	8.1.0 (Not supported on the Brocade 6505)	8.1.0	No	8.1.0	8.1.0 (G620 only) (Support on the Brocade G630 starts at 8.2.0)	8.1.0	8.2.1
Integrated routing	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0 (G620 only) (Support on the Brocade G630 starts at 8.2.0)	8.1.0	8.2.1
Frame order delivery	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0 (G620 only)	8.1.0	8.2.1
Frame redirection	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0 (G620 only)	8.1.0	8.2.1
Option to specify in-order delivery (IOD) with port-based and exchange-based routing policies	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0 (G620 only) (Support on the Brocade G630 starts at 8.2.0)	8.1.0	8.2.1
Display accurate path information concerning FCR configurations	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0 (G620 only) (Support on the Brocade G630 starts at 8.2.0)	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors (Backbones)	Gen 6 Extension Switch
Routing based on lowest cost links in the FCR fabric between FCR edge fabrics through an FCR backbone fabric	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0 (G620 only) (Support on the Brocade G630 starts at 8.2.0)	8.1.0	8.2.1
Display fabric IDs for devices that exist in a fabric and devices imported to fabric	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0 (G620 only) (Support on the Brocade G630 starts at 8.2.0)	8.1.0	8.2.1
E_Port balance priority option	8.1.0	8.1.0	No	8.1.0	8.1.0 (G620 only) (Support on the Brocade G630 starts at 8.2.0)	8.1.0	8.2.1
portChannelShow CLI command	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0 (G620 only)	8.1.0	8.2.1
Support of exchange FC-4 type and SIM port capabilities for proxy devices across FCR with the name server in an edge-to-edge topology	No	No	No	No	8.1.0 (G620 only) (Support on the Brocade G630 starts at 8.2.0)	8.1.0	8.2.1

Security

AAA - Authentication, Authorization, and Accounting

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
E_Port authentication support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
FCAP authentication using third-party-issued certificates	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

ACLs - Access Control Lists

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
1-MB security database that allows for ACL security settings for large environments	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Encryption

Feature	Gen 5 Fixed-Port Switches	Gen 5 Backbones (Directors)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
In-flight frames encryption/decryption between switches	8.1.0 (Not supported on Brocade 6505)	8.1.0	No	8.1.0	8.2.0 (G620 support) 8.2.0a (G630 support)	8.1.0 (FC32-48 only)	No
In-flight frames compression/decompression between switches	8.1.0 (Not supported on Brocade 6505)	8.1.0	No	8.1.0	8.1.0 (G620 support) 8.2.0a (G630 support)	8.1.0	No
In-flight encryption/decryption with port decommissioning	8.1.0	8.1.0	No	8.1.0	No	8.1.0 (FC32-48 only)	No

Feature	Gen 5 Fixed-Port Switches	Gen 5 Backbones (Directors)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
In-flight compression/decompression with port decommissioning	8.1.0	8.1.0	No	8.1.0	8.1.0 (G620 support) 8.2.0a (G630 support)	8.1.0	No
In-flight encryption/decryption on EX_Ports	8.1.0	8.1.0	No	8.1.0	No	8.1.0 (FC32-48 only)	No
In-flight compression/decompression on EX_Ports	8.1.0	8.1.0	No	8.1.0	8.1.0 (G620 support) 8.2.0a (G630 support)	8.1.0	No
In-flight encryption/decryption with FCAP-generated keys	8.1.0	8.1.0	No	8.1.0	No	8.1.0	No
Display compression ratio on a compression-enabled port	8.1.0	8.1.0	No	8.1.0	8.1.0 (G620 support) 8.2.0a (G630 support)	8.1.0	No
Display port speed of encryption- or compression-enabled ports	8.1.0	8.1.0	No	8.1.0	8.1.0 (G620 support) 8.2.0a (G630 support)	8.1.0	No
SHA-256 support for FCAP and DH-CHAP	8.1.0	8.1.0	8.1.0	8.1.0	No	8.1.0 (FC32-48 only)	No

Fabric Authentication

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Fabric authentication support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

FIPS - Federal Information Processing Standards

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
FIPS 140-2 compliant algorithms	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

HTTP/HTTPS

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
HTTP/HTTPS support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

LDAP - Lightweight Directory Access Protocol

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Active Directory support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Mapping of Active Directory server roles to switch roles	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
IPv6 support for LDAP authentication	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
OpenLDAP support	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Password expiration policy configurable per user	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
LDAP configuration support to assign a list of vendor-specific switch attributes per LDAP server group that can be inherited by user accounts	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
IPsec for Extension	No	No	No	No	8.2.0	8.2.0	8.2.1

RADIUS

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Obfuscation of RADIUS-shared secrets so they are not stored as plain text.	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

SSH - Secure Shell

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Inbound and outbound SSH	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
SSH public key authentication support for multiple users	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Challenge-response authentication	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

TACACS and TACACS+

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Log in to Fabric OS switches with user accounts configured in the TACACS+ server	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
TACACS+ server configuration using the CLI	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Encryption option to store the shared secret for TACACS+ configuration	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

User Accounts and Passwords

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
RBAC – Role-based access control	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Configurable switch banner display before user login	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Distribution of the user account and the password database to Access Gateway	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Allow changing the root password without prompting for an old password	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Immediate expiration of password	8.2.0	8.2.0	8.2.0	8.2.0	8.2.0	8.2.0	8.2.1

Zoning

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Broadcast zones	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Allow a switch with default zone "no access" to merge with a fabric	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Replace a zone member (WWN/D,I) with another member	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Specify a collection of zone aliases as input instead of a single alias member	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
List details/differences between the transaction buffer and the committed/saved zone database	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Alert users during configuration edits to reduce the risk of having mismatched effective zone configurations in the same fabric when merging a switch into a fabric	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Alert users when multiple users attempt to simultaneously configure or reconfigure zone sets in more than one switch of a fabric	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Display zoned device data	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Display a remote device's details for a particular domain in the fabric	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Display the zone that WWNs and PIDs belong to	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Display device login details	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Disallow zone merge with mismatching default zone access mode	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Peer zoning	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Target-driven zoning	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Location-embedded LSAN zone	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Peer zoning in LSAN zones	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Alias support in peer zoning	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Special characters in zone object names, such as carat (^), dollar sign (\$), and hyphen (-).	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Allow zone object names to start with a numeric character	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Zone database chassis size enforcements for fixed-port switches and directors in VF mode	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Zone Server support: - Get Alias List (GAL) FC-GS-8 support - Get Alias Member List (GAM) FC-GS-7 support - Get Active Peer Zone (GAPZ) FC-GS-7 support - Remove Active Peer Zone (RAPZ) FC-GS-7 support - Add/Replace Active Peer Zone (AAPZ) FC-GS-7 support - Get Fabric Enhanced Zoning (GFEZ) support	No	No	No	No	8.1.0	8.1.0	8.2.1
Zone Server - Get Alias Names (GAN) FC-GS-8 support	No	No	No	No	8.2.0	8.2.0	8.2.1
Zone Server support: - Get Active Zone Set (GAZS) FC-GS-8 support - Get Zone Set (GZS) FC-GS-8 support	No	No	No	No	8.2.1	8.2.1	8.2.1

Switching

FCoE - Fibre Channel over Ethernet

NOTE

Fibre Channel over Ethernet (FCoE) is not supported in Fabric OS 8.1.0.

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
LLDP and LACP	N/A	No	N/A	N/A	N/A	8.2.0 (Only the FC32-64 blade is supported.)	N/A
FCoE to FC SAN	N/A	No	N/A	N/A	N/A	8.2.0 (Only the FC32-64 blade is supported.)	N/A
FCoE Support with Cisco UCS	N/A	No	N/A	N/A	N/A	8.2.0 (Only the FC32-64 blade is supported.)	N/A
FCoE support for LACP portchannels	N/A	No	N/A	N/A	N/A	8.2.0 (Only the FC32-64 blade is supported.)	N/A
Virtual Fabric support	N/A	No	N/A	N/A	N/A	8.2.0 (Only the FC32-64 blade is supported.)	N/A
FCoE over FCR	N/A	No	N/A	N/A	N/A	8.2.0 (Only the FC32-64 blade is supported.)	N/A

Traffic Management

Buffer Credit Management

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Detection and auto-recovery of buffer credits	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Buffer-to-buffer credits	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Buffer credit recovery	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Credit loss detection	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Credit recovery on EX_Ports	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Credit recovery on F_Ports to Brocade HBA	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Credit recovery alert to the user-level RASLog	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
User-specified buffer credits	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Display an address as user-bound when a user has bound it to a port	8.1.0	8.1.0	8.1.0	8.1.0	No	No	No
Configuring back-end link credit loss recovery options	No	8.1.0	No	No	No	8.1.0	No
User-provided reason string when disabling a port	8.1.0	8.1.0	8.1.0	8.1.0	No	No	No
Indications when the maximum paths (16) to a remote domain are exceeded	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	No
Link reset on loss of sync events	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

FICON

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
FICON LS support	No	No	No	No	8.1.0	8.1.0	No
Cascaded FICON	8.1.0 (Not supported on Brocade 6505 and Brocade 6520)	8.1.0	No	8.1.0	8.1.0	8.1.0	No
FICON CUP	8.1.0 (Not supported on Brocade 6505 and Brocade 6520)	8.1.0	No	8.1.0	8.1.0	8.1.0	No
FICON CUP cascading	8.1.0 (Not supported on Brocade 6505 and Brocade 6520)	8.1.0	No	8.1.0	8.1.0	8.1.0	No
FICON emulation	8.1.0 (Not supported on Brocade 6505 and Brocade 6520)	8.1.0	No	8.1.0	8.1.0	8.1.0	No
CUP diagnostics detection of the firmware version of all switches in the fabric	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	No
Command Reject error code to define fabric errors	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	No
High Integrity fabric mode	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	No
Director diagnostics: - MAPS/director diagnostics interface - HSC sense data - HSC codes - Non-MAPS HSC codes and strings - MAPS-based HSC codes	No	No	No	No	No	8.1.0	No

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Director diagnostics traversing ICL and XISL	No	No	No	No	No	8.1.0	No

FEC - Forward Error Correction

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Extended support for links: - Between 16G switch and 16G Access Gateway - Between 16G switch and Brocade 16G HBA - Between a pair of Access Gateway devices - Between 16G Access Gateway and Brocade 16G HBA	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Enable or disable FEC for a long-distance link	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
FEC counters for admin user (on Gen 5 devices, only on platforms that support 16G)	8.1.0	8.1.0	8.1.0	8.1.0	No	No	No
FEC capability during speed negotiation in transmitter training signal	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

FSPF - Fabric Shortest Path First

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Dynamic load sharing (DLS)	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Lossless DLS	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
In-order delivery (IOD)	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Two-hop lossless DLS	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

ISL - Inter-Switch Link

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
In-flight compression See also Encryption .	8.1.0 (Not supported on the 6505)	8.1.0	No	8.1.0	8.1.0 (Not supported on the Brocade G610)	8.1.0	No
In-flight encryption See also Encryption .	8.1.0 (Not supported on the 6505)	8.1.0	No	8.1.0	8.2.0 (Supported only on the Brocade G620 and G630)	8.1.0 (Supported only on the FC32-48 blade)	No
Trunking	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Support for lossless dynamic load sharing (DLS) with DPS	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Nondisruptive removal of an ISL from service (port decommission)	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Configure the number of buffers for FC long-distance ISLs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Configure the frame size for LD and LS modes on FC long-distance ISLs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Calculate the number of buffers required on a long-distance port	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Display of WWN details on segmented ISLs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Port decommissioning without disabling	No	No	No	No	8.2.0	8.2.0	8.2.1

QoS - Quality of Service

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
Flow-based prioritization	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Map CS_CTL values of 1, 2, and 3 to QoS priorities Low, Medium, and High	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Rate Limiting and Shaping

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors (Backbones)	Gen 6 Extension Switch
Ingress rate limiting for F/FL ports and 8G-capable ports	8.1.0	8.1.0	8.1.0	8.1.0	No	No	No
Adaptive rate limiting (ARL) on 10GigE ports	8.1.0	8.1.0	8.1.0	8.1.0	No	No	No

TIZ - Traffic Isolation Zoning

Feature	Gen 5 Fixed-Port Switches	Gen 5 Directors (Backbones)	Gen 5 Blade Server SAN I/O Modules	Gen 5 Extension Switch	Gen 6 Fixed-Port Switches	Gen 6 Directors	Gen 6 Extension Switch
TIZ in native connectivity modes	No	No	No	No	8.1.0	8.1.0	8.2.1
TIZ over FCR	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Support for common devices in multiple TIZs with failover disabled or failover enabled	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Allow devices in a failover disabled TIZ to communicate with local devices that are not part of the same TIZ	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
Ensure that Domain Controller connectivity between switches in a fabric will not be affected by TIZ policies	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
RASLog indication of invalid TIZs	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
TIZ violation handling for trunk ports	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1
TIZ rule enforcement for devices connected to the same local switch	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.1.0	8.2.1

Fabric OS Standards Compliance

You can find a list of the standards with which each version of Fabric OS is compliant at <https://www.broadcom.com/support/fibre-channel-networking/san-standards/standards-compliance>.

Revision History

FOS-821-FSM-RM101; October 20, 2020

Updated the baseline version to FOS 8.1.0 for both Gen 5 and Gen 6 platforms.

FOS-821-FSM-RM100; October 17, 2018

Initial release.

