



Brocade Fabric OS 8.x Compatibility Matrix

August 2017

This document summarizes equipment known to be compatible with the Brocade® Fabric OS (FOS) 8.x family. Products named in the compatibility tables reflect equipment tested at Brocade or tested externally.

NOTE: This information is constantly being updated. For the latest compatibility information, visit vendor Web sites, some which are listed on page 5.

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Chapter 1: Introduction

OVERVIEW

Brocade and its OEM and Developer Partners have tested a wide variety of devices for compatibility with the Brocade FOS 8.x product family. You can find a current list of Brocade products and data sheets at: <http://www.brocade.com/en/products-services/storage-networking/fibre-channel.html>

These support and compatibility guidelines were generated for your reference based on product testing and operation of products in customer installations. The devices listed are deemed compatible with Brocade products in a Brocade infrastructure. Brocade cannot provide direct support for the end nodes or applications listed in this document, but Brocade is committed to ensuring that the Brocade infrastructure is operating correctly while interoperating with these components. The components listed in this document are not guaranteed to work in all configurations, but Brocade is committed to helping customers with a valid Brocade Support Contract to resolve any compatibility issues.

NOTE: If an item is not listed—it does not mean that it is incompatible. It may simply mean that it has not been tested.

In this document, the term “compatibility” means having the ability to connect to the Brocade product, to register with the name server (if appropriate), and to support a moderate level of I/O. Users of this list should plan on validating their specific configuration with a level of testing appropriate to their application.

Brocade expects suppliers of complete solutions (OEM or Integration Partners) to provide details on configurations they have certified. This document provides the basis for integrators to assemble working systems that they can support and certify. However, Brocade cannot certify that any components on this list, when attached to any other component via our switching products, will operate with no issues. Brocade is committed to actively testing and correcting any issues with its product and to work with Partners to help resolve compatibility issues as they are reported.

This document provides an overview of supported devices within Brocade data center infrastructure. Guidance is provided on products that are known to integrate with a Brocade infrastructure. To ensure proper integration, users should refer questions on configuration details to their OEM or integrator supporting these devices. Brocade expects that the solution provider will supply detailed guidelines on the correct firmware, driver, and configuration settings required to ensure that specific needs are met.

By the date of publication of this document, vendors may offer more recent software support for their products. Users of this document should refer questions on end-to-end interoperability to their OEM or Integration Partner. Your support provider can assist with the proper configuration and tuning of your end-to-end solution. The products listed in this document are considered compatible in a Brocade infrastructure.

In addition to the product testing performed by Brocade, Brocade OEM and Development Partners also have extensive testing programs. Each of these partners might maintain their own compatibility, interoperability, or support guidelines and can provide detailed information on the configurations they support. Products and product variants not specifically listed in this document might be compatible and supported in a production Storage Area Network (SAN) infrastructure. Your OEM or Integration Partner is the first line for questions on supported devices, fabric configuration, firmware or Fabric OS® selection, and settings for end-to-end solution deployment.

RELATED WEB SITES

Many Brocade partners provide detailed support information online, included but are not limited to:

- EMC: <https://www.emc.com/interoperability>
- Fujitsu: <http://www.fujitsu.com/global/support/products/computing/storage/>
- HDS: <http://www.hds.com/products/interoperability/>
- HP: <https://h20272.www2.hp.com/spock/>
- IBM: <http://www-03.ibm.com/systems/support/storage/ssic/interoperability.wss>
- NetApp: <http://support.netapp.com/matrix/>

SENDING FEEDBACK

Send questions, corrections, or suggestion for improving this document to: DL-GRP-MKTG-compmatrix@brocade.com

Chapter 2: Brocade FOS 8.x Platforms

To find out more about Brocade FOS 8.x platforms and to view data sheets for these products, visit:
<http://www.brocade.com/en/products-services/storage-networking/fibre-channel.html>

NOTE: All Brocade FOS 8.x platforms in the table support hot code activation unless otherwise noted.

NOTE: Support for 4 Gbps speed on Gen 6 Fibre Channel platforms requires 16 Gbps optics

NOTE: Support for 2 Gbps speed is only available on supported Gen 5 and 8 Gbps Fibre Channel platforms using 8 Gbps optics

| Supported FOS 8.x Models |
|---|
| Gen 5 and 8 Gbps Fibre Channel Platforms |
| Brocade 6505 Switch |
| Brocade 6510 Switch |
| Brocade 6520 Switch |
| Brocade Gen 5 65xx Blade Server Switches: 6542, 6543, M6505, 6545, 6546, 6547, 6548, 6549, 6558, & 6559 |
| Brocade 7840 Extension Switch |
| Brocade 8510-8 and 8510-4 Backbones Port blades: FC16-32/48/64, FC8-32E/48E/64 Intelligent blades: FX8-24 |
| Gen 6 Fibre Channel Platforms |
| Brocade G610 Switch |
| Brocade G620 Switch |
| Brocade X6-8 and X6-4 Directors Port blades: FC32-48 Intelligent blades: SX6 |

Chapter 3: Server Adapters by Vendor

NOTE: This document lists compatibility with Brocade switches running FOS 8.x.

NOTE: Support for 4 Gbps speed on Gen 6 Fibre Channel platforms requires 16 Gbps optics

NOTE: Support for 2 Gbps speed is only available on supported Gen 5 and 8 Gbps Fibre Channel platforms using 8 Gbps optics

ATTO

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|---|------------------|--|
| ATTO | Celerity FC-322E FC-321E | 8, 16, 32 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | Celerity FC-164P FC-162P FC-161P | 2, 4, 8, 16 | |
| | Celerity FC161E, FC162E, FC164E | 2, 4, 8, 16 | |
| | Celerity FC-84EN FC-82EN FC-81EN | 2, 4, 8 | |

Broadcom (Emulex)

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|---|------------------|--|
| Emulex | LPe31000, LPe32000, LPe31002, LPe32002 | 4, 8, 16, 32 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | LPe16000B, LPe16002B, LPe16004 | 4, 8, 16 | |
| | LPe16000, LPe16002 | 4, 8, 16 | |
| | LPe15004 | 2, 4, 8 | |
| | LPe12000 | 2, 4, 8 | |
| | LPe1250 | 2, 4, 8 | |
| | LPe12002, LPe12002- X8 | 2, 4, 8 | |
| | LPe12004 | 2, 4, 8 | |
| | LPe11000, LPe11002, LPe11004 | 2, 4 | |

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|----------------|------------------|------------------|----------------|
| Emulex (cont.) | LPe1150 | 2, 4 | |
| | LPe111 | 2, 4 | |
| | LP11000, LP11002 | 2, 4 | |
| | LP1150 | 2, 4 | |

Cavium (QLogic)

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|---|------------------|--|
| QLogic | QLE2764-SR-CK | 8, 16, 32 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | QL2742-SR-CK | 8, 16, 32 | |
| | QL2740-SR-CK | 8, 16, 32 | |
| | QLE2764-SR-CK, QLE2742-SR-CK, QLE2740-SR-CK | 4, 8, 16 | |
| | QLE2690-SR-CK, QLE2692-SR-CK, QLE2694-SR-CK, QLE2694U-SR-CK, QLE2694L-SR-CK | 4, 8, 16 | |
| | QLE2670-CK, QLE2672-CK | 4, 8, 16 | |
| | QLE2560 QLE2562, QLE2564 | 2, 4, 8 | |
| | QLE2460 QLE2462, QLE2464 | 2, 4 | |
| | QLA2460 QLA2462 | 2, 4 | |

Cavium (QLogic) (former Brocade product line)

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|--------------|------------------|--|
| QLogic | 1860 | 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | 825, 815 | 2, 4, 8 | |
| | 425, 415 | 2, 4 | |
| | 1867 | 4, 8, 16 | 65XX |

Cisco

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|--------------|------------------|--|
| Cisco | N2XX-AEPCI05 | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | N2XX-AEPC103 | 2, 4 | |

Dell EMC (Dell)

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models | |
|--------|--|------------------|--|-------|
| Dell | QLE2740, QLE2742 | 8, 16, 32 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G620, X6-4, X6-8 | |
| | QLE2690, QLE2692 | 4, 8, 16 | | |
| | 331-0237, 331-0238 | 2, 4, 8 | | |
| | LPe16000, LPe16002 | 4, 8, 16 | | |
| | LPe1200-E, LPe12002-E, LPe1205-M | 2, 4, 8 | | |
| | LPe11002-E, LPe1150-E, LPe1105 | 2, 4 | | |
| | 331-0238 (BR-825) | 4, 8 | | |
| | QLE2660 (0187V/TC40H), QLE2662 (9J1RG/7JKH4) | 4, 8, 16 | | |
| | QLE2560 (F641C), QLE2562 (H144C) | 2, 4, 8 | | |
| | QLE2462 | 2, 4 | | |
| | LPe1205-M | 4, 8 | | M6505 |
| | LPm16002B-D | 8, 16 | | |
| | LPe1105 | 4 | | |
| | QME2662 (4GDP5) | 8, 16 | | |
| | QME2572 (R112D) | 4, 8 | | |

Dell EMC (EMC)

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|--|------------------|--|
| EMC | EM-1860-1F00, EM-1860-1P00, EM-1860-2F00, EM-1860-2P00 | 2, 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | EM-815-0010, EM-825-0010 | 2, 4, 8 | |

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|----------------|--|------------------|--|
| EMC (cont.) | EM-415-0010, EM-425-0010 | 2, 4 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | LPe16000B-E, LPe16002B-E, LPe16000-E, LPe16002-E | 4, 8, 16 | |
| | LPe12000-E | 2, 4, 8 | |
| | LPe1250-E | 2, 4, 8 | |
| | LPe12002-E | 2, 4, 8 | |
| | LPe11000-E, LPe11002-E | 2, 4 | |
| | LPe1150-E | 2, 4 | |
| | LPe111-E | 2, 4 | |
| | LP11000-E, LP11002-E | 2, 4 | |
| | LP1150-E | 2, 4 | |
| | QLE2670-E-SP, QLE2672-E-SP | 2, 4, 8, 16 | |
| | QLE2560-E-SP, QLE2562-E-SP | 2, 4, 8 | |
| | QLE2460-E-SP, QLE2462-E-SP | 2, 4 | |
| | QLA2460-E-SP, QLA2462-E-SP | 2, 4 | |

Fujitsu

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|---------|--------------------------------|------------------|--|
| Fujitsu | SEOX7F11F/S | 2, 4 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | LPe1250-F8-FJ | 2, 4, 8 | |
| | LPe1250-F8-F, LPe1250L-F8-F | 2, 4, 8 | |
| | LPe12002-M8-FJ | 2, 4, 8 | |
| | LPe12002-M8-F, LPe12002L-M8-F | 2, 4, 8 | |
| | LPe1150-F4-FJ | 2, 4 | |
| | LPe1150-F4-F, LPe1150L-F4-F | 2, 4 | |
| | LPe11002-M4-FJ | 2, 4 | |
| | LPe11002L-M4-F, LPe110002-M4-F | 2, 4 | |
| | LPe11000-M4-FJ | 2, 4 | |
| | LPe111-F, LPe111L-F | 2, 4 | |
| | BX600-FC42E | 2, 4 | |

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|-----------------|---------------|------------------|--|
| Fujitsu (cont.) | LP11002-M4-FJ | 2, 4 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | LP11000-M4-FJ | 2, 4 | |
| | MC-FC82E | 4, 8 | 6545 |
| | MC-FC162E | 8, 16 | |

Hitachi

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|---------|--------------|------------------|--|
| Hitachi | LPe12002 | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | LPe1205-HI | 2, 4, 8 | |
| | LPe1250 | 2, 4, 8 | |
| | LPe111-E | 2, 4 | |
| | LP11002 | 2, 4 | |
| | LP1150 | 2, 4 | |
| | LPe1205A-HI | 2, 4, 8 | |

Hitachi Data Systems

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|----------------------|--|------------------|--|
| Hitachi Data Systems | HD-1860-1F00, HD-1860-1C00, HD-1860-2F00, HD-1860-2C00 | 2, 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | LPe16002 | 4, 8, 16 | |
| | QLE2672 | 4, 8, 16 | |
| | HD-815-0010.P, HD-825-0010.P | 4, 8 | |
| | HFC0402-E | 2, 4 | |
| | HFCE0802 | 2, 4, 8 | |
| | LPe12000-M8-H, LPe12002-M8-H | 2, 4, 8 | |
| | LPe11000-M4-H, LPe11002-M4-H | 2, 4 | |
| | LPe1150-F4-H | 2, 4 | |
| | LPe111-H | 2, 4 | |
| | LP11000-M4-H, LP11002-M4-H | 2, 4 | |
| | LPm16002B-HI | 8, 16 | |
| | LPe1205a-HI | 4, 8 | 6546 |

HPE

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|---------|--|------------------|--|
| HPE | QR558A, QR559A | 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | LPe16000B (C8R38A), LPe16002B (C8R39A) | 4, 8, 16 | |
| | QMH2672 (710608-B21) | 4, 8, 16 | |
| | AP769A, AP770A | 2, 4, 8 | |
| | AP767A, AP768A | 2, 4 | |
| | AJ762A*/81E, AJ762B*/82E, AH402A/NA | 2, 4, 8 | |
| | AJ763A/B | 2, 4, 8 | |
| | AH400A | 2, 4, 8 | |
| | AH402A | 2, 4, 8 | |
| | AH403A | 2, 4, 8 | |
| | AT094A | 2, 4, 8 | |
| | AD193A | 2, 4 | |
| | AD299A, AD355A, AD221A, AD222A, AD393A | 2, 4 | |
| | A8003A, A8003B*/FC2242SR | 2, 4 | |
| | A8002A A8002B*/FC2142SR | 2, 4 | |
| | 403621-B21 | 2, 4 | |
| | AB379B | 2, 4 | |
| | AE311A, AE312A | 2, 4 | |
| | AD300A | 2, 4 | |
| | AD400A | 2, 4, 8 | |
| | AK344A | 2, 4, 8 | |
| | AH764A, AH401A | 2, 4, 8 | |
| | 456972-B21 | 8 | 6548 |
| | 659818-B21 | 8 | |
| | 403621-B21 | 4 | |
| | BR-804 | 8 | |
| | QMH2562, QMH2572 | 8 | |
| | QMH2462 | 4 | |
| | QMH2572 | 4, 8 | |
| | QMH2672 | 8, 16 | |
| LPe1205 | 4, 8 | | |

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|----------------|--------------------------|------------------|----------------|
| HPE (cont.) | LPe1205A, LPe1205A-HP | 4, 8 | |
| | LPe1105-HP | 4 | |
| | LPe1605 (718203- B21) | 8, 16 | |
| | LPm1602 | 16 | 6558, 6559 |
| | QMH2682 | 16 | 6558, 6559 |

Huawei

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|------------------------|------------------|--|
| Huawei | LPe12000, LPe 12002 | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | MZ220, MXEH, MXEA | 8, 16 | 6543 (known as MX220) |

IBM

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|---------------------------------------|------------------|--|
| IBM | 81Y1668, 81Y1675 | 2, 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | 81Y1655, 81Y1662 | 4, 8, 16 | |
| | 00Y3337 00Y3341 | 4, 8, 16 | |
| | 46M6049, 46M6050 | 2, 4, 8 | |
| | 59Y1987, 59Y1993 | 2, 4 | |
| | 81Y1655, 81Y1662 | 4, 8, 16 | |
| | LPe16000, LPe16002 | 4, 8, 16 | |
| | 42D0485, 42D0494 | 2, 4, 8 | |
| | LPe12004-IBM | 2, 4, 8 | |
| | 42C2069, 42C2071 | 2, 4 | |
| | 39M5894, 39M5895, 39R6525, 39R6527 | 2, 4 | |
| | 42D0501, 42D0510 | 2, 4, 8 | |
| | FC EN0Y | 2, 4, 8 | |
| | 5735/577D | 2, 4, 8 | |
| | 5749 | 2, 4, 8 | |
| | 5774 | 2, 4 | |
| | 5759 | 2, 4 | |
| | 5760 | 2, 4 | |
| | 95Y2375 | 4, 8 | |
| | 95Y2386 | 8, 16 | |

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|----------------|--------------|------------------|------------------------------------|
| IBM (cont.) | 69Y1938 | 4, 8 | 6547 (known as Flex System FC5022) |
| | 69Y1942 | 8, 16 | |
| | 88Y6370 | 8, 16 | |

Inspur

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|--------------|------------------|----------------|
| Inspur | FCC1620Q | 16 | 6542 |
| | FCC1620E | 16 | |

Lenovo

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models | |
|---------|---------------------------|------------------|------------------------------------|------------------------------------|
| Lenovo | 7ZT7A00516, 7ZT7A00518 | 8, 16, 32 | 6505, 6510, G610, G620, X6-4, X6-8 | |
| | 7ZT7A00517, 7ZT7A00519 | 8, 16, 32 | | |
| | 81Y1655, 81Y1662 | 4, 8, 16 | | |
| | 01CV830 | 8, 16 | | |
| | 01CV840 | 8, 16 | | |
| | 01CV750 | 8, 16 | | |
| | 01CV760 | 8, 16 | | |
| | 42D0485, 42D0494 | 2, 4, 8 | | |
| | 46M6049, 46M6050 | 2, 4, 8 | | |
| | 42D0501, 42D0510 | 2, 4, 8 | | |
| | 00Y3341 | 4, 8, 16 | | |
| | 00Y3337 | 4, 8, 16 | | |
| | 81Y1655, 81Y1662 | 4, 8, 16 | | |
| | 81Y1668, 81Y1675 | 2, 4, 8, 16 | | |
| | 7ZT7A00520 | 8,16 | | 6547 (known at Flex System FC5022) |
| | 95Y2375 | 8 | | |
| | 69Y1938 | 8 | | |
| | 95Y2386, 95Y2391 | 8, 16 | | |
| | 88Y6370 | 8, 16 | | |
| | 95Y23279 | 8, 16 | | |
| 69Y1942 | 8, 16 | | | |

NEC

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|----------------------------|------------------|--|
| NEC | LPe12000-M8 LPe12002-M8 | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | LPe11002-M4 | 2, 4 | |
| | LPe1150-F4-N | 2, 4 | |
| | LP11002-M4 | 2, 4 | |

NetApp

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|---|------------------|--|
| NetApp | LPe16000 Lpe16002 | 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | QLE2670 QLE2672 | 4, 8, 16 | |
| | LPe12000 (X1096A-R6), LPe12002 (X1097A-R6) | 2, 4, 8 | |
| | LPe11000 (X1091A-R6), LPe11002 (X1092A-R6), LPe1150 (X1093A-R6), LPe11000 (X1086A-R6), LPe11000 (X1087A-R6), LP1150 | 2, 4 | |
| | X1088A-R6, X1089A-R6 | 2, 4 | |
| | X1094A-R6, X1095A-R6 | 2, 4, 8 | |
| | LPE32002 | 8, 16, 32 | |
| | QLE2742 | 8, 16, 32 | |

Oracle

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|---|------------------|--|
| Oracle | SG-XPCIE1FC-EM8-N, SG-XPCIE2FC-EM8-N | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | SG-XPCIE1FC-EM4-N, SG-XPCIE2FC-EM4-N | 2, 4 | |
| | SG-XPCIE2FC-EM4-N | 2, 4 | |
| | SG-XPCIE2FC-EB4-N, SG-XPCIE2FC-EB4-N | 2, 4 | |
| | SG-XPCI1FC-EM4-Z-N, SG-XPCI2FC-EM4-Z-N | 2, 4 | |

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|----------------|--|------------------|--|
| Oracle (cont.) | SG-XPCI1FC-QF4-N, SG-XPCI2FC-QF4-N, SG-XPCIE1FC-QF4-N, SG-XPCIE2FC-QF4-N | 2, 4 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | SG-XPCIE1FC-QF8-N, SG-XPCIE2FC-QF8-N | 2, 4, 8 | |

Chapter 4: SAN Switches by Vendor

NOTE: This document lists compatibility with Brocade switches running FOS 8.x. As the undisputed leader of data center SAN networks, Brocade provides interoperability of Brocade Fibre Channel switches using open industry standards. Brocade supports Brocade switches connected to third-party switches utilizing N Port ID Virtualization (NPIV) technology.

NOTE: Cisco switches must be configured to Cisco N-Port Virtualizer (NPV) mode to connect to Brocade switches. Cisco NP ports connect to Brocade F_Ports. E_Port connectivity is not supported.

NOTE: HPE Virtual Connect switches connect Virtual Connect N ports connect to Brocade F_Ports.

NOTE: Cavium/QLogic switches must be configured to Transparent Router mode to connect to Brocade switches. QLogic N ports connect to Brocade F_Ports.

NOTE: Support for 4 Gbps speed on Gen 6 Fibre Channel platforms requires 16 Gbps optics

NOTE: Support for 2 Gbps speed is only supported on Gen 5 and 8 Gbps Fibre Channel platforms using 8 Gbps optics

Cavium (QLogic)

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|--|------------------|--|
| QLogic | 9000 Stackable Chassis Switch | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | 5800V/5802V Fibre Channel Stackable Switch | 2, 4 | |
| | 3810 Fibre Channel Switch | 2, 4, 8 | |
| | SANbox Express 1400 | 2, 4, 8 | |

Cisco

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|---|------------------|--|
| Cisco | MDS 9396S Multilayer Fabric Switch | 2, 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | MDS 9148S Multilayer Fabric Switch | 2, 4, 8, 16 | |
| | MDS 9250i Multilayer Fabric Switch | 2, 4, 8, 16 | |
| | MDS 9148 Multilayer Fabric Switch | 2, 4, 8 | |
| | MDS 9124 Multilayer Fabric Switch | 2, 4 | |
| | MDS 9124e Fabric Switch for HPE c-Class BladeSystem | 2, 4 | |
| | MDS 9222i Multiservice Modular Switch | 2, 4, 8 | |

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|-------------------|---|------------------|--|
| Cisco (cont.) | MDS 8G Fibre Channel Blade Switch for HPE c-Class BladeSystem | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | UCS 6332-16UP Fabric Interconnect | 2, 4, 8, 16 | |
| | UCS 6248UP Fabric Interconnect | 2, 4, 8 | |
| | UCS 6296UP Fabric Interconnect | 2, 4, 8 | |
| | UCS 6140XP | 2, 4, 8 | |
| | UCS 6120XP | 2, 4, 8 | |
| | Nexus 5596T Switch | 2, 4, 8 | |
| | Nexus 5596UP Switch | 2, 4, 8 | |
| | Nexus 5548P Switch | 2, 4, 8 | |
| | Nexus 5548UP Switch | 2, 4, 8 | |
| | Nexus 5020 Switch | 2, 4, 8 | |
| Nexus 5010 Switch | 2, 4, 8 | | |

HPE

| Vendor | Product Name | Data Rate (Gbps) | Brocade Models |
|--------|--|------------------|--|
| HPE | Virtual Connect 8Gb 20-Port Fibre Channel Module for c-Class BladeSystem | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | Virtual Connect 8Gb 24-Port Fibre Channel Module for c-Class BladeSystem | 2, 4, 8 | |

Chapter 5: Storage by Vendor

NOTE: Support for 4 Gbps speed on Gen 6 Fibre Channel platforms requires 16 Gbps optics

NOTE: Support for 2 Gbps speed is only supported on Gen 5 and 8 Gbps Fibre Channel platforms using 8 Gbps optics

Dell EMC (Dell)

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|--------|----------------------|-----------------------|------------------|--|
| Dell | Compellent Series 30 | 5.2.3 | 4 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G620, X6-4, X6-8 |
| | SC8000 | V6.3.0 | 4, 8, 16 | |
| | SC7020 | 7.1 | 4, 8, 16 | |
| | SC9000 | 7.0, 7.1 | 8, 16, 32 | |

Dell EMC (EMC)

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|--------|--|--|------------------|--|
| EMC | VMAX ALL FLASH 250F/250FX/450F/850F/850FX | 5977.814.786 | 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | VMAX3 400K/200K/100K | 5977.814.786 | 8, 16 | |
| | VMAX 40K/20K VMAXe | 5876.288.195 | 8, 16 | |
| | DMX3/4 | 5772.105.94 | 4 | |
| | UNITY 600F/600/500F/500/ 400F/400/300F/300 | 4.0.0.7329527 4.0.1.8320161 4.0.2.8627714 4.1.x | 8, 16 | |
| | VNX 5100/5300/5500/5700/ 7500 | 05.32.000.5.221 05.33.009.5.184 | 4, 8 | |
| | VNX 5200/5400/5600/5800/ 7600/8000 | 05.33.009.5.184 | 4, 8, 16 | |
| | VNXe 1600/3200 | 3.1.3.7141854 3.1.5.8711957 | 4, 8 | |
| | VPLEX | 5.4.03.00.04 5.5.2.02.00.03 6.0.0.01.00.07 | 4, 8, 16 | |
| | ExtremIO | 2.4.3 3.0.5 4.0.15-20 | 4, 8 | |
| | Data Domain | 5.4.6.0 5.5.4.0 5.6.2.0 5.7.3.0 6.x | 8, 16 | |

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|-------------|------------------------|-------------------------------|------------------|--|
| EMC (cont.) | RecoverPoint Appliance | 4.3.1.2 4.4.1.1 5.0.0.1 | 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |

Fujitsu

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|---------|--|----------------------------|------------------|--|
| Fujitsu | Eternus DX410S2 | V20L71-0000 V10L60-0000 | 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | Eternus DX8100S2 | V20L71-0000 | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | Eternus DX60 S2 Eternus DX80 S2 Eternus DX90 S2 Eternus DX410 S2 Eternus DX440 S2 Eternus DX 8100 S2 Eternus DX8700 S2 | V10L16-0000 | 4, 8, 16, 32 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | Eternus DX60 S3 Eternus DX100 S3 Eternus DX200 S3 Eternus DX500 S3 Eternus DX600 S3 Eternus DX8100 S3 Eternus DX8700 S3 Eternus DX8900 S3 Eternus DX200F Eternus AF250 Eternus AF650 | V10L60-0000 | 4, 8, 16, 32 | |
| | | | | |
| | | | | |

HPE

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|--------|-------------------|-----------------------|------------------|--|
| HPE | HSV210-B | 11300000 | 2, 4 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | P6300/6500 | 11300000 | 8 | |
| | HSV450 (8400) | 11300000 | 4 | |
| | HSV300-S (4400-S) | 11300000 | 2, 4 | |
| | HSV300 (4400) | 11300000 | 2, 4 | |
| | HSV340 | 11300000 | 2, 4 | |
| | MSA2012fc | J202P01 | 2, 4 | |
| | MSA2312fc | M113R11 | 4 | |
| | P9500 | 70-06-40-00/00 | 8 | |

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|----------------|--------------|------------------------------|------------------|--|
| HPE (cont.) | XP7 | 80-04-22-00/30 | 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | P10000 | 3.2.2 MU2 | 8, 16 | |
| | XP12000 | 50-09-98-00/02 | 2, 4 | |
| | XP24000 | 60-08-51-00/0060-08-43-00/00 | 4, 8 | |
| | F200/F400 | 3.1.3 MU1 | 4 | |
| | P2000 G3 | TS252P001 | 8 | |
| | P4330 FC | 12.6 | 8 | |
| | MSA2040 | GL220P008 | 16 | |
| | 3PAR 8400 | 3.2.2 MU2 | 16 | |

HPE (Nimble Storage)

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|----------------|--------------|-----------------------|------------------|--|
| Nimble Storage | CS-Series | 3.5.4.0-408190-opt | 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |

Hitachi Data Systems

Due to release timing and test schedules, always confirm supported configurations with HDS.

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|----------------------|--------------|--|------------------|--|
| Hitachi Data Systems | VSP G1500 | Contact HDS for currently supported versions | 8, 16 | 6505, 6510, 6520, , 7800, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | VSP G1000 | 84-04-24-00/00 Contact HDS for currently supported versions | 8, 16 | |
| | VSP G800 | Contact HDS for currently supported versions | 8, 16, 32 | |
| | VSP G600 | Contact HDS for currently supported versions | 8, 16, 32 | |
| | VSP G400 | 83-03-25-40/00 Contact HDS for currently supported versions | 8, 16, 32 | |
| | VSP G200 | Contact HDS for currently supported versions | 8, 16, 32 | |

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|------------------------------|-------------------|--|------------------|--|
| Hitachi Data Systems (cont.) | VSP F400 | Contact HDS for currently supported versions | 8, 16, 32 | 6505, 6510, 6520, , 7800, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | VSP F600 | Contact HDS for currently supported versions | 8, 16, 32 | |
| | VSP F800 | Contact HDS for currently supported versions | 8, 16, 32 | |
| | VSP F1500 | Contact HDS for currently supported versions | 8, 16 | |
| | USP-V | 60-08-45-00/00 Contact HDS for currently supported versions | 4, 8 | |
| | VSP | 70-06-43-00/00 Contact HDS for currently supported versions | 2, 4, 8 | |
| | HUS 110, 130, 150 | 0977/A-P Contact HDS for currently supported versions | 2, 4, 8 | |
| | HUS-VM | 73-03-50-00/00 Contact HDS for currently supported versions | 2, 4, 8 | |

Huawei Storage

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|----------------|---|-----------------------|------------------|--|
| Huawei Storage | OceanStor S2200T/S2600T/S5500T/S5600T/S5800T/S6800T Storage Array | V1R5 | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | OceanStor Dorado5100/Dorado2100 G2 Storage Array | V1R1 | 2, 4, 8 | |
| | OceanStor VIS6000 Storage Array | V1R2 | 2, 4, 8 | |
| | OceanStor VIS6000T Storage Array | V2R3 | 2, 4, 8 | |
| | OceanStor HVS85T/HVS88T Storage Array | V1R1 | 2, 4, 8 | |
| | OceanStor 18500/18800/18800F Storage Array | V1R1 | 2, 4, 8 | |
| | OceanStor S2600T/S5500T/S5600T/S5800T/S6800T Storage Array | V2R1 | 2, 4, 8 | |

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|----------------|---|-----------------------|------------------|----------------|
| Huawei (cont.) | OceanStor 5300 V3/5500 V3/5600 V3/5800 V3/6800 V3 Storage Array | V3R1, V3R2, V300R006 | 2, 4, 8, 16 | |
| | OceanStor V3 Series Storage (OceanStor 5300 V3/5500 V3/5600 V3/5800 V3/6800 V3/18500 V3/18800 V3) | V300R003, V300R006 | 2, 4, 8, 16 | |
| | OceanStor Dorado6000 V3 Series Storage (OceanStor Dorado 5000 V3/6000 V3) | V300R001 | 4,8,16 | |

IBM

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|-----------------|--------------------|--|------------------|--|
| IBM | ESS800 | 2.4.4.112 | | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | DS8870 | 7.1.x,7.2.x, 7.3.x, 7.4.x, 7.5.x, 7.6.x, 7.7.x | 2, 4, 8, 16 | |
| | DS8880 | R6.3, R8.0, R8.1, 8.1.1 bundle 88.11.21.0 | 2, 4, 8, 16 | |
| | DS8100 | 5.4.36.91 | 4 | |
| | DS8000 | 5.4.33.44 | | |
| | DS4800 | 6.60.17.00 | | |
| | DS4700 | 6.30.34.00 6.15,15,00 | | |
| | DS4300 | 5.33.5.0 | | |
| | DS3400 | 07.35.41.00 | | |
| | DS5100 | 7.83.22.00 | 4 | |
| | DS5020 | 7.70.38.00 | | |
| | DS6800 | 5.2.2.472 | | |
| | FlashSystem A9000 | 12.0.x, 12.0.0a, 12.0.2.a | 16 | |
| | FlashSystem A9000R | 12.0.x | 16 | |
| | FlashSystem V9000 | 7.4.x, 7.5.x, 7.6.x, 7.7.x | 4,8,16 | |
| | FlashSystem V840 | 7.3.x, 7.4.x, 7.5.x, 7.6.x, 7.7.x | 8, 16 | |
| | FlashSystem 900 | 1.2.x.x, 1.3.x.x, 1.4.x.x | 8, 16 | |
| | FlashSystem 810 | 05.06.xx | 8 | |
| | FlashSystem 820 | 06.03.xx | 8 | |
| | FlashSystem 840 | 1.1.2.7, 1.4.5.9, 1.4.0.10, 1.4.4.2 | 4, 8, 16 | |
| FlashSystem 710 | 05.06.xx | 8 | | |
| FlashSystem 720 | 06.03.xx | 8 | | |
| V5010 | V7.6.1.x, 7.7.x | 16 | | |
| V5020 | V7.6.1.x, 7.7.x | 16 | | |

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|-------------|--------------|------------------------------------|------------------|--|
| IBM (cont.) | V5030 | V7.6.1.x, 7.7.x | 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | SVC 2G | 4.3.1.10 | 2 | |
| | SVC 4G | 6.4.1.4 | 4 | |
| | SVC 8G | 7.7.0.3 | 8 | |
| | 2076-124 | 6.4.1.4 | 8 | |
| | V7000 | 7.2.0.4, 7.7.1.1, 7.6.1.1, 7.5.0.7 | 8 | |
| | V7000 (16G) | 7.7.1.1, 7.6.1.1 | 16 | |
| | XIV | 11.5.0.a, 11.6.1a | 8 | |

INFINIDAT

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|-----------|--------------|-----------------------|------------------|--|
| INFINIDAT | InfiniBox | 3.0.0.150 | 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |

Inspur

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|--------|----------------------|-----------------------|------------------|--|
| Inspur | AS5300G2 AS5500G2 | 3.1.6.X | 8, 16 | 65XX, 78X0, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |

Kaminario

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|-----------|--------------|-----------------------|------------------|--|
| Kaminario | K2 | 5.8.0.83 | 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |

Lenovo

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|--------|--------------|--------------------------|------------------|--|
| Lenovo | S2200 | GL221R019-05 | 8 | 6505, 6510, 6547, G610, G620, X6-4, X6-8 |
| | S3200 | GL221R019-05 | 8, 16 | |
| | DS2200 | GT250R003-07 | 8, 16 | |
| | DS4200 | GT250R003-07 | 8, 16 | |
| | DS6200 | GT250R003-07 | 8, 16 | |
| | DX8200D | DataCore SANSymphony v10 | 16 | |
| | V3700 v2 | 7.8.0.2 | 16 | |
| | V3700 v2 XP | 7.8.0.2 | 16 | |
| | V5030 | 7.8.0.2 | 16 | |

NetApp

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|--------|----------------------------|--|------------------|--|
| NetApp | V3000 series | ONTAP 8.0.x | 2, 4 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | | ONTAP 8.1.x | 2, 4, 8 | |
| | V6000 series | ONTAP 8.2.x | 2, 4, 8, 16 | |
| | | ONTAP 8.3.x | 2, 4, 8, 16 | |
| | FAS200 series | ONTAP 8.0.x | 2, 4 | |
| | FAS2000 series | ONTAP 8.0.x ONTAP 8.1.x ONTAP 8.2.x | 2, 4, 8 | |
| | FAS3000 series | ONTAP 8.0.x ONTAP 8.1.x ONTAP 8.2.x ONTAP 8.3.x | 2, 4, 8, 16 | |
| | FAS6000 series | ONTAP 8.2.x ONTAP 8.3.x | 4, 8, 16 | |
| | FAS8000 series | ONTAP 8.2.x ONTAP 8.3.x ONTAP 9.0.x | 2, 4, 8, 16 | |
| | | ONTAP 9.1.x ONTAP 9.2.x | 4, 8, 16, 32 | |
| | FAS9000 series | ONTAP 9.1.x ONTAP 9.2.x | 4, 8, 16, 32 | |
| | AFF8000 series | ONTAP 8.2.x ONTAP 8.3.x ONTAP 9.0.x | 2, 4, 8, 16 | |
| | ONTAP 9.1.x ONTAP 9.2.x | 4, 8, 16, 32 | | |

NetApp (SolidFire)

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|-----------|-----------------------|-----------------------|------------------|--|
| SolidFire | SF FibreChannel Array | Element 9.1.0.38 | 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |

Oracle

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|--------|--------------|--------------------------|------------------|--|
| Oracle | AXIOM R5 3 | 2070-00001-050300-004300 | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | 6140 | 6.10.09.16 | 4 | |
| | 6850 | 3.10.09.16 | 2, 4 | |

Pure Storage

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|--------------|-----------------------|-----------------------|------------------|--|
| Pure Storage | FlashArray 4xx Series | Purity 3.4.11, 4.1.3 | 2, 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | FlashArray //M | Purity 4.7.9 | 8, 16 | |

Quantum

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|---------|---------------------|-----------------------|------------------|--|
| Quantum | DLT-S4 | V42 | 2, 4, 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | DXi8500 Series | 2.3 | 2, 4, 8 | |
| | DXi6800 Series | 2.3 | 2, 4, 8 | |
| | DXi6700 Series | 2,3 | 2, 4, 8 | |
| | DXi7500 | 1.5 | 2, 4, 8 | |
| | Scalar i6000 | 670Q | 2, 4, 8 | |
| | Scalar i2000 (ADIC) | 653Q | 2, 4, 8 | |
| | Scalar i500 (ADIC) | 640G | 2, 4, 8 | |
| | Scalar i80 | 160G | 2, 4, 8 | |
| | Scalar i40 | 160G | 2, 4, 8 | |

Tegile

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|--------|----------------------------|-----------------------|------------------|--|
| Tegile | HA2xxx Intelliflash Arrays | 2.1.3.4(150311)-368 | 2, 4, 8, 16 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | T3xxx Intelliflash Arrays | 3.5.2.3 | 4, 8, 16 | |

Vexata

| Vendor | Product Name | Firmware/Code Version | Data Rate (Gbps) | Brocade Models |
|--------|--------------|-----------------------|------------------|--|
| Vexata | VX-100 | V2.0.2-0 | 8, 16, 32 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |

Chapter 6: Tape by Vendor

NOTE: Support for 4 Gbps speed on Gen 6 Fibre Channel platforms requires 16 Gbps optics

NOTE: Support for 2 Gbps speed is only supported on Gen 5 and 8 Gbps Fibre Channel platforms using 8 Gbps optics

HPE

| Vendor | Product Name | Firmware/ Code Version | Data Rate (Gbps) | Brocade Models |
|--------|--------------|---------------------------|---------------------|--|
| HPE | LTO 6 | J39S | 8 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | LTO 5 | I67S | 8 | |
| | LTO 4 | 85AW | 4 | |
| | MSL4048 | 8.1 | | |

IBM

| Vendor | Product Name | Firmware/ Code Version | Data Rate (Gbps) | Brocade Models |
|--------|----------------------------|---------------------------|---------------------|--|
| IBM | 3592 | H82672 | 4 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | TS3500 (3584) Tape Library | B570 /C7R2, F130 | | |
| | TS3310 (3576) | 680G | | |
| | TS3200 (3573) | D.60 | | |
| | TS3100 (3573) | D.60 | | |
| | TS3500 (3584) | F130 | | |
| | W/TS1140 | 3A88 | | |
| | W/TS1150 | 468E | | |
| | W/LTO Gen III | 69U2 | 4 | |
| | W/LTO7 | G340 | | |
| | W/ LTO6 | D8E6, G350 | 8 | |
| | W/LTO 5 | D2AC, G360 | | |
| | LTO Gen 5 | A3K7 | 8 | |
| | LTO 4 | 7BGt2 | | |

Oracle (Sun)

| Vendor | Product Name | Firmware/ Code Version | Data Rate (Gbps) | Brocade Models |
|-----------------|--------------|--|---------------------|--|
| Oracle (Sun) | T9840-C | 1.44.509 | 4 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 |
| | 9840-D | 1.45.703-5.20 | 4 | |
| | SL500 | 1501 | | |
| | T10000-A | 1.52.106 | 2, 4 | |
| | T10000-B | 1.52.206 | 2, 4 | |
| | T10000-C | 3.62.111 | 2, 4 | |
| | T10000-D | 4.11.111 | 4, 8, 16 | |
| | SL3000 | 4.40 | | |
| | L700 | 3.18.02 | | |
| | SL150 | 260 | | |
| | VSM5 | D02.17.14.00 D02.16.00.00 D02.15.20.00 | 2, 4 | |
| | IBM LTO7 FH | FA14 | 8 | |
| | IBM LTO7 HH | G341 | 8 | |
| | IBM LTO6 FH | G350 | 8 | |
| | IBM LTO6 | E4J0 | 8 | |
| | IBM LTO5 | E4J0 | 8 | |
| | IBM LTO5 FH | G360 | 8 | |
| | IBM LTO4 | 7BG2 | 4 | |
| | HP LTO6 | J3ES | 8 | |
| | HP LTO6 HH | 258S | 8 | |
| | HP LTO5 | I6BS | 8 | |
| | HP LTO5 FH | I6NS | 8 | |
| | HP LTO4 | H58W | 4 | |

Chapter 7: WDM Network Solutions

Brocade General Compatibility with WDM Solutions

Brocade supports all WDM networking solutions compliant with Fibre Channel standards for ISL extensions when configured in 'R_RDY' mode.

Note the following limitations to WDM support:

- FEC should be turned off for 10G & 16G links
- Lossless capability cannot be guaranteed over DWDM network
- Virtual Fabrics support ISLs in only VC_RDY mode in base switch (no support for R_RDY in base switch). If using ISLs in VC_RDY mode over DWDM, use VC_RDY tested and certified products.

Check with your WDM networking vendor for qualification test details for Brocade switches.

Brocade ISL Trunking Support with WDM Solutions

Following is a list of equipment that has been tested to support Brocade ISL Trunking functionality. Please check with your preferred WDM vendor for details on their compatibility testing with Brocade equipment and supported configurations.

ADVA Optical Networking: Please check with ADVA at www.advaoptical.com for details on testing and supported configurations.

Ciena: Please check with Ciena at <http://www.ciena.com/products/6500/> for product details and supported configurations.

Nokia: The 1830 Photonic Service Switch from Nokia has been tested to support Brocade ISL Trunking functionality. Please check with Nokia at [1830 PSS compatibility with Brocade switches](#) for details on compatibility testing and supported configurations.

SmartOptics: The SmartOptics M-Series has been tested to support Brocade ISL Trunking functionality. Please check with SmartOptics at <http://www.smartoptics.com/products/m-series/> for details on compatibility testing and supported configurations.

T8: The VOLGA multiservice DWDM platform with MS-100E-T10 card from T8 has been tested in both R_RDY and VC_RDY mode, and includes ISL trunking and QoS functionality. Please check with T8 at www.t8.ru for details on testing and supported configurations.

Chapter 8: Transceivers by Vendor

Finisar

| Vendor | Data Rate (Gbps) | Product | Part Number | Brocade Models |
|---------|----------------------|--|--|---|
| Finisar | 4 | 4G ELWL - 100km | FWLF1625P2L55B03 | 7840, SX6 FOS 7.x and beyond |
| | | 4G DWDM 80km (25 wavelengths from 1530nm-1560nm) w/ "T-3832" Mux (FOS 6.3.0 required) | FWLF1634RLxxB04 (xx = 21 @ 1560.61nm thru 60 @ 1529.55nm) | |
| | 8 | 8G CWDM 40km (16 wavelengths from 1290nm-1610nm) | FTLX2670SCCxxB08 (xx = 47 @ 1470nm thru 61 @ 1610nm) | 7840, SX6 FOS 7.x and beyond |
| | | 8G CWDM 40km (16 wavelengths from 1290nm-1610nm) | FTLX2670SCCxxB08 (xx = 47 @ 1470nm thru 61 @ 1610nm) | |
| | 8 | 8G DWDM 40km (SFP+) (40 wavelengths from 1530nm-1560nm) | FTLX3670SCCxxB08 (xx = 21 @ 1560.61nm thru 60 @ 1529.55nm) | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) |
| | 8 | 8G CWDM 70km (SFP+) (8 wavelengths from 1470nm-1610nm) | FTLX2870SCCxxB08 (xx = 47 @ 1470nm thru 61 @ 1610nm) | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) |
| 16 | 16G DWDM 40km (SFP+) | FTLX3670SCCxxB16 (xx = 21 @ 1560.61nm thru 60 @ 1529.55nm) | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) | |

Smartoptics

| Vendor | Data Rate (Gbps) | Product | Part Number | Brocade Models |
|---------------------|------------------|----------------------------|--|--|
| Smartoptics | 8 | ELWL 40km | 8G-ER-Dxxx-BR1 (note 1) | 7840, SX6 FOS 7.x and beyond |
| | | ELWL 70km | 8G-ZR-C55-BR1 | 7840, SX6 FOS 7.x and beyond |
| | | CWDM 70km (note 2) | 8G-ZR-C47-BR1 8G-ZR-C49-BR1 8G-ZR-C51-BR1 8G-ZR-C53-BR1 8G-ZR-C55-BR1 8G-ZR-C57-BR1 8G-ZR-C59-BR1 8G-ZR-C61-BR1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) |
| | | CWDM 40km (note 2) | SO-SFP-8GFC-40D-C27 SO-SFP-8GFC-40D-C29 SO-SFP-8GFC-40D-C31 SO-SFP-8GFC-40D-C33 SO-SFP-8GFC-40D-C35 SO-SFP-8GFC-40D-C37 SO-SFP-8GFC-40D-C39 SO-SFP-8GFC-40D-C41 SO-SFP-8GFC-40D-C47 SO-SFP-8GFC-40D-C49 SO-SFP-8GFC-40D-C51 SO-SFP-8GFC-40D-C53 SO-SFP-8GFC-40D-C55 SO-SFP-8GFC-40D-C57 SO-SFP-8GFC-40D-C59 SO-SFP-8GFC-40D-C61 | 7840, SX6 FOS 7.x and beyond |
| | | DWDM 0-40km (note 3) | 8G-ER-Dxxx-BR1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) |
| | | 8G DWDM 0-120km (note 3&4) | 8G-ER-Dxxx-BR1 and M-1601-921936-D003TC1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) |
| Smartoptics (cont.) | | 8G DWDM 0-160km (note 3&4) | 8G-ZR-Dxxx-BR1 and M-1601-921936-D1A3TC1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8, G610, G620, X6-4, X6-8 FOS 7.x and beyond |

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|--|------------------------------|---|--|
| | ELWL 0-40km | 16G-ER-Dxxx-BR1 (note 1) | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | CWDM 0-40km, Channel 1530nm | 16G-ER-Dxxx-BR1 (note 1) | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | CWDM 0-40km, 1550nm | 16G-ER-D340-BR1 (note 1) | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | DWDM 0-40km (note 3) | 16G-ER-Dxxx-BR1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | 16G DWDM 0-40km (note 3&4) | 16G-ER-Dxxx-BR1 and M-1601-921936-D003TC1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | 16G DWDM 0-80km (note 3&4) | 16G-ER-Dxxx-BR1 and M-1601-921936-D1A3TC1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | 16G DWDM 40-120km (note 3&4) | 16G-ER-Dxxx-BR1 and M-1601-921936-D1B3TC1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |

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| note (1) | CWDM 1530 Dxxx = D520 to D610 CWDM 1550 Dxxx = D260 to D420 |
| note (2) | T-3009 supports eight CWDM wavelengths 1470nm to 1610nm. Expansion port for T-3016 T-3016 supports eight CWDM wavelengths 1290nm to 1430nm |
| Note (3) | Dxxx = D180 (1563.05nm), D190 (1562.23nm), D200 (1561.42nm), D210 (1560.61nm), D220 (1559.79nm), D230 (1558.98nm), D240 (1558.17nm), D250 (1557.36nm), D260 (1556.55nm), D270 (1555.75nm), D280 (1554.94nm), D290 (1554.13nm), D300 (1553.33nm), D310 (1552.52nm), D320 (1551.72nm), D330 (1550.92nm), D340 (1550.12nm), D350 (1549.32nm), D360 (1548.51nm), D370 (1547.72nm), D380 (1546.92nm), D390 (1546.12nm), D400 (1545.32nm), D410 (1544.53nm), D420 (1543.73nm), D430 (1542.94nm), D440 (1542.14nm), D450 (1541.35nm), D460 (1540.56nm), D470 (1539.77nm), D480 (1538.98nm), D490 (1538.19nm), D500 (1537.40nm), D510 (1536.61nm), D520 (1535.82nm), D530 (1535.04nm), D540 (1534.25nm), D550 (1533.47nm), D560 (1532.68nm), D570 (1531.90nm), D580 (1531.12nm), D590 (1530.33nm), D600 (1529.55nm), D610 (1528.77nm) |

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| Note (4) | <p>Extended distances using embedded DWDM transceivers and intelligent mux/demux, no DWDM transponder system required</p> <p>M-1601-921936-C0000C1 M-Series mux/demux with monitoring M-1601-921936-D003TC1 M-Series mux/demux with monitoring, Rx (EDFA & tunable DCM)</p> <p>M-1601-921936-D1A3TC1 M-Series mux/demux with monitoring, Tx (EDFA & DCM), Rx (EDFA & tunable DCM) M-1601-921936-D1B3TC1 M-Series mux/demux with monitoring, Tx (EDFA & DCM), Rx (EDFA & tunable DCM)</p> |
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| Vendor | Data Rate (Gbps) | Product | Part Number | Brocade Models |
|-------------|------------------|----------------------------|---|--|
| Smartoptics | 8 | DWDM 0-80km (note 3) | 8G-ZR-Dxxx-BR1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) |
| | | 8G DWDM 0-120km (note 3&4) | 8G-ZR-Dxxx-BR1 and M-1601-921936-D003TC1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) |
| | | 8G DWDM 0-160km (note 3&4) | 8G-ZR-Dxxx-BR1 and M-1601-921936-D1A3TC1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) |
| | 16 | ELWL 0-40km | 16G-ER-BR2 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | | CWDM 0-40km, 1530nm | 16G-ER-Dxxx-BR2 (note 1) | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | | CWDM 0-40km, 1550nm | 16G-ER-D340-BR2 (note 1) | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | | DWDM 0-40km (note 3) | 16G-ER-Dxxx-BR2 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | | 16G DWDM 0-40km (note 3&4) | 16G-ER-Dxxx-BR2 and M-1601-921936-D003TC1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
| | | 16G DWDM 0-80km (note 3&4) | 16G-ER-Dxxx-BR2 and M-1601-921936-D1A3TC1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
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|---------------------|--|---------------------------------|---|--|
| Smartoptics (Cont.) | | 16G DWDM 40-120km (note 3&4) | 16G-ER-Dxxx-BR2 and M-1601-921936-D1B3TC1 | 6505, 6510, 6520, 65XX, 7840, DCX 8510-4, DCX 8510-8 (FOS 7.x and beyond) G610, G620, X6-4, X6-8 (FOS 8.x and beyond) |
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|-----------------|---|--|
| note (1) | CWDM 1530 | Dxxx = D520 to D610 |
| | CWDM 1550 | Dxxx = D260 to D420 |
| note (2) | T-3009 supports eight CWDM wavelengths 1470nm to 1610nm. Expansion port for T-3016 | |
| | T-3016 supports eight CWDM wavelengths 1290nm to 1430nm | |
| Note (3) | Dxxx = D180 (1563.05nm), D190 (1562.23nm), D200 (1561.42nm), D210 (1560.61nm), D220 (1559.79nm), D230 (1558.98nm), D240 (1558.17nm), D250 (1557.36nm), D260 (1556.55nm), D270 (1555.75nm), D280 (1554.94nm), D290 (1554.13nm), D300 (1553.33nm), D310 (1552.52nm), D320 (1551.72nm), D330 (1550.92nm), D340 (1550.12nm), D350 (1549.32nm), D360 (1548.51nm), D370 (1547.72nm), D380 (1546.92nm), D390 (1546.12nm), D400 (1545.32nm), D410 (1544.53nm), D420 (1543.73nm), D430 (1542.94nm), D440 (1542.14nm), D450 (1541.35nm), D460 (1540.56nm), D470 (1539.77nm), D480 (1538.98nm), D490 (1538.19nm), D500 (1537.40nm), D510 (1536.61nm), D520 (1535.82nm), D530 (1535.04nm), D540 (1534.25nm), D550 (1533.47nm), D560 (1532.68nm), D570 (1531.90nm), D580 (1531.12nm), D590 (1530.33nm), D600 (1529.55nm), D610 (1528.77nm) | |
| Note (4) | Extended distances using embedded DWDM transceivers and intelligent mux/demux, no DWDM transponder system required | |
| | M-1601-921936-C0000C1 | M-Series mux/demux with monitoring |
| | M-1601-921936-D003TC1 | M-Series mux/demux with monitoring, Rx (EDFA & tunable DCM) |
| | M-1601-921936-D1A3TC1 | M-Series mux/demux with monitoring, Tx (EDFA & DCM), Rx (EDFA & tunable DCM) |
| | M-1601-921936-D1B3TC1 | M-Series mux/demux with monitoring, Tx (EDFA & DCM), Rx (EDFA & tunable DCM) |

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