

DS8000 Series - Metro Mirror, Global Copy, Global Mirror, Metro/Global Mirror (MGM) Support

Remote Mirror and Copy Fibre Channel Extension, DWDM, and Network Connectivity beyond single mode fibre distances will require the use of channel extension technology, and the vendor will determine maximum distance supported. The vendor should be contacted for its distance capability, line quality requirements, and WAN attachment capabilities.

IBM supports the use of the following products with Metro Mirror, Global Mirror, Global Copy and Metro/Global Mirror (MGM). Additionally, the product vendors should also be consulted regarding hardware and software prerequisites when using their products in a DS8000 series remote mirror and copy configuration. IBM is not responsible for third party products.

When using products listed below in Table 1, IBM supports the use of remote mirror and copy over network technologies which are currently supported by the listed products, including Fibre Channel and Ethernet/IP. Evaluation, qualification, approval, and support for these products are the sole responsibility of the vendor.

Table-1 DS8000 Series - Metro Mirror, Global Copy, Global Mirror, Metro/Global Mirror (MGM) Support

Supplier Name	IBM Equivalent Name	DS8100/8300	DS8700/8800
ADVA FSP 2000		Y	Y
ADVA FSP 3000		Y	Y
Brocade 7500	SAN04B-R 2005-R18 2005-R04	Y	Y
Chassis Brocade DCX-4S Brocade DCX with blades Brocade FR4-18i Brocade FX8-24	Chassis 2499-192 2499-384 with blades FC 3850 FC 3880	Y	Y
Chassis Brocade 48000 with blade Brocade FR4-18i	Chassis 2109-M48 with blade FC 3450	Y	Y
Brocade 7800	SAN06B-R 2498-R06	Y	Y
Brocade 8000 (incl FCoE)	3758-B32 3758-32E	Y	Y
Ciena CN 2000 Storage Extension Platform		Y	Y
Ciena 4200		Y	Y
Ciena ONLINE Metro Multiservice DWDM		Y	Y
Cisco 9216i	2054-D1H	Y	Y
Cisco 9222i	2054-E01	Y	Y
Cisco MDS 9500 with blade MDS 9000 12-port 1/2/4/ Gbps FC Module MDS 9000 24-port 1/2/4/ Gbps FC Module MDS 9000 48-port 1/2/4/ Gbps FC Module 4/44-Port Host Optimized 8G FC Module 48-Port 8G FC Module 24-Port 8G FC Module	2054-E04 2054-E07 2054-E11 with blade DS-X9112 DS-X9124 DS-X9148 DS-X9248-48K9 DS-X9248-96K9 DS-X9224-96K9	Y	Y
Cisco IP storage Service Modules	DS-X9304-18K9 DS-X9302-14K9 DS-X9308-SMIP	Y	Y
Cisco Nexus 5010		Y	Y
Cisco Nexus 5020		Y	Y
Cisco CWDM Distance Solution		Y	Y
CNT/Brocade Edge Storage Router		Y	RPQ Only
CNT/Brocade UltraNet Storage Director- eXtended		Y	RPQ Only
Cisco ONS 15454 / 15530 / 15540		Y	Y
Ericsson Marconi MHL3000		Y	Y
Huawei Optix Metro OSN 1500 / 2500 / 3500 / 3800 / 6800 / 7500		Y	Y
Nortel networks OPTera Metro 5200 / 5300		Y	RPQ Only
Nortel OM3500		Y	RPQ Only
Sorrento Networks GigaMux		RPQ Only	RPQ Only
Tellabs 7100 Nano OTS		Y	Y
All Other		RPQ Only	RPQ Only

DS8000 Series - z/OS Global Mirror Support

z/OS Global Mirror (formerly XRC) FICON Extension, DWDM, and Network Connectivity beyond single mode fibre distances will require the use of FICON extension technology, and the vendor will determine the maximum distance supported. The vendor should be contacted for its distance capability, line quality requirements and SAN and WAN attachment capabilities.

IBM supports the use of the following products, in Table 2, with z/OS Global Mirror. The product vendors should also be consulted regarding hardware and software prerequisites when using their products in a DS8000 Series System z/OS Global mirror configuration. IBM is not responsible for third-party products.

When using z/OS Global Mirror with the products below, IBM supports the use of z/OS Global mirror over the network technologies which are currently supported by the listed products, including Fibre Channel and Ethernet/IP. Evaluation, qualification, approval, and support of these products are the sole responsibility of the vendor.

Two options exist to improve performance of IBM z/OS Global Mirror over FCIP at distances greater than those provided by direct fibre connections:

- FICON Emulation (also known as FICON Acceleration)
- Extended Distance FICON (also known as enhanced IU pacing).

All products listed here can support Extended Distance FICON when using the prerequisite server (System z10 or later) and DS8000 Series storage running R3.1 licensed code or later. Products with FICON Emulation/Acceleration features available are also noted in the table. If neither of these features are available then a RPQ should be requested for distances over 100km.

Table-2 DS8000 Series - z/OS Global Mirror Support

Supplier Name	IBM Equivalent Name	Extended Distance FICON	FICON Emulation (FICON Acceleration)
ADVA FSP 2000		Y	
ADVA FSP 3000		Y	
Brocade 7500	SAN04B-R 2005-R18 2005-R04	Y	Y
Chassis Brocade DCX-4S Brocade DCX with blades Brocade FR4-18i Brocade FX8-24	Chassis 2499-192 2499-384 with blades FC 3850 FC 3880	Y	Y
Chassis Brocade 48000 with blade Brocade FR4-18i	Chassis 2109-M48 with blade FC 3450	Y	Y
Brocade 7800	SAN06B-R 2498-R06	Y	Y
Ciena CN 2000 Storage Extension Platform		Y	
Ciena 4200		Y	
Ciena ONLINE Metro Multiservice DWDM		Y	
Cisco 9216i	2054-D1H	Y	
Cisco 9222i	2054-E01	Y	Y
Cisco MDS 9500	2054-E04 2054-E07 2054-E11	Y	
Cisco IP storage Service Modules	DS-X9304-18K9 DS-X9302-14K9 DS-X9308-SMIP	Y	
Cisco CWDM Distance Solution		Y	
CNT/Brocade Edge Storage Router		Y	Y
CNT/Brocade UltraNet Storage Director-eXtended		Y	Y
Cisco ONS 15454 / 15530 / 15540		Y	
Ericsson Marconi MHL3000		Y	
Huawei Optix Metro OSN 1500 / 2500 / 3500 / 3800 / 6800 / 7500		Y	
Nortel networks OPTera Metro 5200 / 5300		Y	
Nortel OM3500		Y	
Tellabs 7100 Nano OTS		Y	