

Fabric Services Interoperability Matrix

This chapter lists Cisco fabric applications supported by the SSM module and tested by Cisco's Solution-Interoperability Engineering group (iLAB) to ensure seamless installation at the end-user data center.

- EMC, on page 1
- FC-IP SAN Extension, on page 2
- IOA/FCIP Write Acceleration, on page 3

EMC

Table 1: EMC CX4-480 (FLARE v04.30.000.5.511)

Operating System	OS Version	HBA	HBA Driver	Multipath Application	Failover Mode
Windows Server 2003	SP2	Qlogic QLE 2462	9.1.8.25	PowerPath 5.5	Failover Mode: 4
AIX	5300-12	IBM FC 1905, 5758, 5760, 5761 PN 03N5014	Native OS driver	PowerPath 5.1.0	Failover Mode: 1

Table 2: EMC Clarion CX700 (FLARE v02.16.700.5.010)

Operating System	OS Version	HBA	HBA/CNA Driver	Multipath Application	Failover Mode
Windows Server 2003	SP2	Qlogic QLE 2462	9.1.8.25	PowerPath 5.5	Failover Mode: 1
AIX	5300-12	IBM FC 1905, 5758, 5760, 5761 PN 03N5014	Native OS driver	PowerPath 5.1.0	Failover Mode: 1
Red Hat	5.5	Cisco M71KR-E	1.3(1n)	PowerPath 5.5	Failover Mode: 1

Table 3: EMC VNX-5300 (v05.31.000.5.008)

Operating System	OS Version	HBA	HBA/CNA Driver	Multipath Application	Failover Mode
Red Hat	5.5	Cisco M71KR-E	1.3(1n)	PowerPath 5.5	Failover Mode: 1

Table 4: NetApp FAS940(6.5.6)

Operating System	OS Version	HBA	HBA/CNA Driver	Multipath Application	Failover Mode
Red Hat	5.5	Cisco M71KR-E	1.3(1n)	Native	Load-balance

Table 5: HDS 9585v

Operating System	OS Version	HBA	HBA/CNA Driver	Multipath Application	Failover Mode
Windows Server 2008 Datacenter	SP2	Cisco M71KR-Q	1.3(1n)	MPIO	

FC-IP SAN Extension

The Cisco MDS 9250i switch, the 24/10 Port SAN Extension Module, the MSM-18/4, and SSN-16 modules support Auto, Mode1 and Mode2 compression modes. All of these modes internally use the hardware compression engine of the module. By default, Auto mode is enabled. Mode2 uses a larger batch size for compression than Auto mode, which results in higher compression throughput. However, Mode2 incurs a small latency because of the compression throughput. For the deployments where aggressive throughput is most important, Mode2 should be used. Mode1 gives the better compression ratio when compared to all other modes. For the deployments where compression ratio is most important, Mode1 should be used. Auto mode is similar to Mode2 with respect to the algorithm used for compression except that the batching is not done in Auto mode.

Note For more information on module and version support, see *Cisco MDS 9000 Series IP Services Configuration Guide*.

Table 6: SAN Extension InterOp Support Matrix

Cisco MDS Modules/Switches	IPSEC	FCIP-WA	HW Compression —Auto	HW Compression —Mode1	HW Compression —Mode2	FCIP-TA
9220i	Yes	Yes	Yes	Yes	Yes	Yes
24/10 Port SAN Extension Module	Yes	Yes	Yes	Yes	Yes	Yes

Cisco MDS Modules/Switches	IPSEC	FCIP-WA	HW Compression —Auto	HW Compression —Mode1	HW Compression —Mode2	FCIP-TA
9250i	Yes	Yes	Yes	Yes	Yes	Yes
SSN-16	Yes	Yes	Yes	Yes	Yes	Yes[1]
9222i/18+4	Yes	Yes	Yes	Yes	Yes	Yes

[1] Only Veritas NetBackup and IBM TSM backup applications are supported.

IOA/FCIP Write Acceleration

For information about Write Acceleration see the Cisco MDS 9000 Series I/O Accelerator Configuration Guide.

The following table lists SCSI write initiators tested by Cisco with NX-OS IOA/FCIP Write Acceleration. This includes initiators in array to array replication.

Table 7: IOA/FCIP Write Acceleration Support

Vendor	Array	Replication Application
T10 Standard SCSI write(6)	All	All
T10 Standard SCSI write(10)	All	All
Hitachi	Virtual Storage Platform G1000/G1500/F1500 E570, E590, E990, 5100, 5100H, 5500, 5500H, G200, G350, G400, G600, G700, G800, G900 F350, F370, F400, F600, F700, F800, F900	TrueCopy
Dell EMC	VMAX All Flash VMAX 10K VMAX3 PowerMax 2000, 8000	SRDF