



EMC Simple Support Matrix

EMC Federated Tiered Storage (FTS)

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For the most up-to-date regulator document for your product line, go to EMC Online Support (<https://support.emc.com>).

This table provides information for EMC® Symmetrix® Federated Tiered Storage (FTS) for EMC Symmetrix VMAX® 40K, VMAX 20K/VMAX, VMAX 10K xxx987xxxx, VMAX 10K xxx959xxxx, VMAXe, and VMAX SE and minimum EMC Enginuity™ versions.

FTS Array — EMC Enginuity Release	Qualified External Arrays ^{h, i}	
Minimum Enginuity version 5876.82.57 ^{a, b, c, d}	EMC	Symmetrix VMAX 40K VMAX 20K/VMAX, VMAX 10K/ VMAXe, VMAX SE
		Symmetrix DMX™
		VNX® Series
		CLARiiON® CX4 and CX3 Series
	HDS	VSP (Virtual Storage Platform)
		USP-V (Universal Storage Platform)
		USP-VM
		TagmaStore USP 1100
		TagmaStore USP 600
		TagmaStore USP 100
	HP	XP P9500
		XP 24000
		XP 20000
		XP 12000
XP 10000		
IBM	DS8700 ^f	
	XIV	
SUN	StorEdge 9990V	
Minimum Enginuity version 5876.159.102 ^{a, b, c, d}	All of the above-listed models are supported. In addition, the following models are also supported.	
	EMC	Symmetrix VMAX 10K xxx987xxxx and VMAX 10K xxx959xxxx
	HDS	AMS 1000 (Adaptable Modular Storage) ^e
		AMS 500 ^e
	HP	EVA 8100 (Enterprise Virtualization Array)
		EVA 8000
		EVA 6100
		EVA 6000
		EVA 4100
		EVA 4000
	IBM	DS8800 ^f
		N7900
	NetApp	FAS3200
		FAS6080
FAS6200		
Minimum Enginuity version 5876.229.145	All of the above-listed models are supported. In addition, the following models are also supported.	
	IBM	DS8300 ^f
		DS6xxx Series ^f
		DS5xxx/4xxx Series ^g
	SUN	STK 6x40 ^g
		FLX 380 family ^g
Minimum Enginuity version 5876.268.174	All of the above-listed models are supported. In addition, the following models are also supported.	
	EMC	XtremIO ^j
	HDS	HUS 100 Series

- VMAX 40K, VMAX 20K/VMAX, and VMAX SE support FTS starting with Enginuity version 5876.82.57. Support for VMAX 10K and VMAXe was added starting with Enginuity version 5876.159.102.
- For Solaris 10 Native MPxIO migration, an RPQ is required.
- Not every host configuration has been tested.
- Consult EMC Knowledgebase Solution emc298125 to determine additional Enginuity requirements.
- Due to the asymmetric characteristics of this array, optimal performance may not be achieved.
- For connectivity, requires four IBM ports per DX pair. No IBM remote port should be zoned to more than one DX initiator port.
- FTS LUN should be configured with Auto Logical Drive Transfer, also referred to as Auto Volume Transfer (AVT) or implicit failover, enabled. How ADT is configured on external LUNs varies based on the external array model and management software version. For an example of how ADT is set on an external array, see Appendix B in the *Design and Implementation Best Practices for EMC Symmetrix Federated Tiered Storage (FTS) Technical Notes*, available on <https://support.emc.com>. For any questions or issues regarding this feature, please speak with a representative from the manufacturer of the external array.
- Using a flash array or external array flash drives as a FAST performance tier requires additional analysis of the specific environment. Please consult with your EMC field representative for more specific information.
- When using FTS, any performance expectation depends on the performance potential of the external array as well as the VMAX I/O path. Please consult with your EMC field representative to determine what level of performance will be available in a particular configuration.
- Refer to footnotes^h and ⁱ when using XtremIO.

Components and Notes	
Switches	All EMC-recommended FC SAN switches (2 Gb/s or greater) from EMC Connectrix®, Brocade, Cisco, and QLogic between DX port connectivity to the external arrays are supported. The SAN must be contained in a local data center (without distance extension). Refer to the Switched Fabric Topology Parameters table located on the E-Lab Navigator (ELN) at http://elabnavigator.emc.com for supported switch fabric interoperability firmware and settings.
External Logical Unit	512 bytes formatted SBC-3 compliant Logical Unit. Under-provisioned external Logical Unit can only be encapsulated and cannot be used for external provisioning.
<ul style="list-style-type: none"> • Refer to the EMC Simple Support Matrices at http://elabnavigator.emc.com or EMC product documentation located on https://support.emc.com for more information. • FTS requires that DX port initiators are provisioned as Windows host initiators for the tiered storage array. • Refer to the <i>Design and Implementation Best Practices for EMC Symmetrix Federated Tiered Storage (FTS) Technical Notes</i> on https://support.emc.com, for more information. 	