



## EMC® VNX5100 and VNX5300 Series Storage Systems

### Disk and OE Matrix

P/N 300-012-417

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REV 08

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To function properly, disks in an EMC® VNX® system require that each storage processor run minimum revisions of the EMC VNX Operating Environment (VNX OE). This document lists the disk part numbers supported for EMC VNX series storage systems and the minimum software revisions required for each disk model.

The disk part number (PN) appears on a label on the front of the disk carrier. Note that although the OE GUI may display an alpha suffix at the end of the PN (like PWR or EFD) these characters are not part of the actual orderable PN.



#### CAUTION

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**Verify that the proper version of VNX OE is running on the storage system before installing any disk drives. Results ranging from non-recognition of the drives to data loss may occur if an improper VNX OE version is installed.**

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## VNX series storage systems

Before installing a new disk in a storage system, use the EMC Unisphere™ Manager to determine the VNX OE revision running on the storage system. In Unisphere Manager, the VNX OE revision appears on the **Software** tab of the **Storage System Properties** dialog box for the storage system. If this revision is lower than the minimum VNX OE revision required for the disk as listed in

[Table 1](#) or [Table 2](#), you must upgrade the VNX OE on the storage system before installing the disk. EMC recommends that you upgrade VNX OE using the wizards in the System Software section of the Unisphere Service Manager (USM).

Note: Changes and additions in the tables since the last revision of this document are noted in **red** type.

**Note:** PNs in tables with a 'YES' entry in the Spin-Down Support column may report a suffix of PWR through the OE GUI (EX: 005049278PWR). This PWR suffix is used by the OE and is not part of the actual orderable PN.

**Note:** NEBS model numbers are shown in (parenthesis). Only those part numbers with a 'YES' entry in the NEBS column may be used for NEBS models.

**Note:** All PNs within this document are RoHS compliant.

Table 1 lists the standard SAS interface disk modules that you can order with VNX series storage systems and the minimum VNX OE required for each system.

**Table 1 Standard 6Gb SAS interface disk modules - Minimum VNX OE revisions required**

Disk capacity	Model number (NEBS Model)	Part number	NEBS	Spin-Down Support	Drive type	Spindle speed	Platform	Minimum OE software revision
3 TB	V3-VS07-030 (N3-VS07-030) 15-disk	005049278	NO	YES	6Gb SAS 3.5"	7.2K rpm	VNX5300 VNX5100	Block: 05.31.000.5.502 File: 7.0.35.3
		<b>005049280</b>	NO	YES				
		005049453	YES	YES				
		<b>005049454</b>	YES	YES				
		005049943	NO	YES				
<b>005049945</b>	NO	YES						
2 TB	V3-VS07-020 (N3-VS07-020) 15-disk	005049277	NO	YES	6Gb SAS 3.5"	7.2K rpm	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0
		<b>005049279</b>	NO	YES				
		005049449	YES	YES				
		<b>005049450</b>	YES	YES				
		005049748	NO	YES				
		005049496	YES	YES				
		<b>005049497</b>	YES	YES				
		005050037	YES	YES				
<b>005050290</b>	YES	YES						
1 TB	V3-VS07-010 15-disk	<b>005049305</b>	NO	YES	6Gb SAS 3.5"	7.2K rpm	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0
		<b>005049494</b>	YES	YES				
		005049407	NO	YES				
		005049493	YES	YES				
		005050036	YES	YES				
<b>005050287</b>	YES	YES						
900 GB	V3-2S10-900 (N3-2S10-900) 25-disk	005049206	YES	YES	6Gb SAS 2.5"	10K rpm	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0
		<b>005049295</b>	YES	NO				
		<b>005049951</b>	NO	YES				
	V3-VS10-900 (N3-VS10-900) 15-disk	005049925	YES	YES	6Gb SAS 3.5"	10K rpm	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0
		005049205	YES	YES				
		<b>005049302</b>	YES	NO				
<b>005049956</b>	NO	NO						
005049924	YES	YES						

## VNX series storage systems

Disk capacity	Model number (NEBS Model)	Part number	NEBS	Spin-Down Support	Drive type	Spindle speed	Platform	Minimum OE software revision								
		005049806 005049807	NO NO	YES YES												
600 GB	V3-VS15-600 (N3-VS15-600) 15-disk	005049274 005049272	YES YES	NO NO	6Gb SAS 3.5"	15K rpm	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0								
		005049675 005049677	YES YES	YES YES												
		005049249 005049301	YES YES	YES YES												
		005049202 005050284	NO NO	NO YES												
	V3-VS10-600 (N3-VS10-600) 15-disk	005050281	YES	YES	6Gb SAS 3.5"	10K rpm	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0								
		005049802	NO	YES												
		005049801	NO	YES												
		005049250 005049294	YES YES	YES YES												
		005049203 005050285	NO NO	NO YES												
V3-2S10-600 (N3-2S10-600) 25-disk	005050282	YES	YES	6Gb SAS 2.5"	10K rpm	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0									
	005049273 005049271	YES YES	NO NO					6Gb SAS 3.5"	15K rpm	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0					
	005049673 005049671	YES YES	YES YES													
	V3-VS10-300 (N3-VS10-300) 15-disk	005049175 005049299	YES YES									NO NO	6Gb SAS 3.5"	10K rpm	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0
		005049196	NO									NO				
		005049819	NO									NO				
005050280		NO	NO													
005050278		NO	NO													
005049796 005049797		NO NO	NO NO													
V3-2S10-300 (N3-2S10-300) 25-disk	005048946 005049292	YES YES	NO NO	6Gb SAS 2.5"	10K rpm	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0									
	005049197	NO	NO													
	005049821	NO	NO													
	005050277	NO	NO													

Disk capacity	Model number (NEBS Model)	Part number	NEBS	Spin-Down Support	Drive type	Spindle speed	Platform	Minimum OE software revision
		005050279	NO	NO				

Table 2 lists the standard Enterprise Flash Drive (EFD) interface disk modules that you can order with VNX series storage systems and the minimum VNX OE required for each system.

**Table 2 Standard EFD (enterprise flash drive) SAS interface disk modules - Minimum OE revisions required**

Disk capacity	Model number (NEBS Model)	Part number	NEBS	Spin-Down Support	Drive type	Spindle speed	Platform	Minimum OE software revision	
200 GB	V3-2S6F-200 (N3-2S6F-200) FLV32S6F-200 25-disk	005049264	YES	NA	6Gb SAS 2.5" EFD	NA	VNX5300 VNX5100	Block: 05.31.000.5.502 File: 7.0.353	
		<b>005049297</b>	YES						
		005049622	NO						
		<b>005050188</b>	NO						
		<b>005050368</b>	NO						
005050366	NO								
200 GB	V3-VS6F-200 (N3-VS6F-200) FLV3VS6F-200 15-disk	005049185	YES	NA	6Gb SAS 3.5" EFD	N/A	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0	
		<b>005049298</b>	NO						
		005049884	YES						
		<b>005049885</b>	YES						
	6Gb SAS 3.5" EFD	VNX5300 VNX5100	005050184	NO	NA	6Gb SAS 3.5" EFD	N/A	VNX5300 VNX5100	Block: 05.31.000.5.502 File: 7.0.353
			<b>005050186</b>	NO					
			<b>005050364</b>	NO					
005050362	NO								
100 GB	V3-2S6F-100 (N3-2S6F-100) FLV32S6F-100 25-disk	005049263	YES	NA	6Gb SAS 2.5" EFD	NA	VNX5300 VNX5100	Block: 05.31.000.5.502 File: 7.0.353	
		<b>005049296</b>	YES						
		005049621	NO						
		<b>005050187</b>	NO						
		<b>005050367</b>	NO						

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Disk capacity	Model number (NEBS Model)	Part number	NEBS	Spin-Down Support	Drive type	Spindle speed	Platform	Minimum OE software revision
		005050365	NO					
100 GB	V3-VS6F-100 (N3-VS6F-100)	005049184	YES	NA	6Gb SAS 3.5" EFD	NA	VNX5300 VNX5100	Block: 05.31.000.5.006 File: 7.0.12.0
		<b>005049229</b>	NO					
		005049882	YES					
		<b>005049883</b>	YES					
	FLV3VS6F-100 15-disk	005050183	NO	NA	6Gb SAS 3.5" EFD	NA	VNX5300 VNX5100	Block: 05.31.000.5.502 File: 7.0.35.3
		<b>005050185</b>	NO					
		<b>005050363</b>	NO					
		005050361	NO					

## Available disk space

[Table 3](#) lists the usable space for the disks listed in [Table 1](#) and [Table 2](#).

**Table 3 Usable disk space**

Listed capacity <sup>1</sup>	USABLE CAPACITY PER DISK	
	Disk	VNX5100, VNX5300
3 TB	Disk 0-3 (vault disk)	2568.0829GB
	Other disk	2751.5097GB
2 TB	Disk 0-3 (vault disk)	1650.9104GB
	Other disk	1834.3373GB

<sup>1</sup> The listed capacity is the disk capacity listed for the disks in

[Table 1](#) and [Table 2](#).

Listed capacity <sup>1</sup>	USABLE CAPACITY PER DISK	
	Disk	VNX5100, VNX5300
1 TB	Disk 0-3 (vault disk)	733.7379GB
	Other disk	917.1648GB
900 GB	Disk 0-3 (vault disk)	637.1739GB
	Other disk	820.6008GB
600 GB	Disk 0-3 (vault disk)	353.3638GB
	Other disk	536.7907GB
300 GB	Disk 0-3 (vault disk)	84.9597GB
	Other disk	268.3865GB
200 GB	Disk 0-3 (vault disk)	NOT supported as vault disk
	Other disk	183.4268GB
100 GB	Disk 0-3 (vault disk)	NOT supported as vault disk
	Other disk	91.7096GB

## Supported disk-array enclosures

Table 4 lists the disk-array enclosures (DAEs) supported for VNX storage systems.

**Table 4 Supported disk-array enclosures (DAEs)**

DAE type	VNX	
	VNX5100	VNX5300
3U 3.5" x 15	V31-DAE-R-15	V31-DAE-R-15
	V31-DAE-N-15	V31-DAE-N-15
2U 2.5" x 25	V2-DAE-R-25-A	V2-DAE-R-25-A
	V2-DAE-N-25-A	V2-DAE-N-25-A

Table 5 lists the disk models supported for the DAEs.

**Table 5 Disk models supported for disk-array enclosures (DAEs)**

DAE type	Storage systems: VNX5100, VNX5300			
	7200RPM	10K RPM	15K RPM	FLASH
3U 3.5" x 15	V3-VS07-xxx	V3-VS10-xxx	V3-VS15-xxx	V3-VS6F-xxx
2U 2.5" x 25	N/A	V3-2S10-xxx	N/A	V3-2S6F-xxx



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