



## EMC® AX4-5 Series Storage Systems

### Disk and FLARE® OE Matrix

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To function properly, serial advanced technology attachment (SATA) or serial attached SCSI (SAS) disks in an EMC® AX4-5 series storage system require that each storage processor run minimum versions of the EMC FLARE® Operating Environment (FLARE OE). This document lists the disk part numbers supported by EMC AX4-5 series storage systems and the minimum software versions required for each disk model.

The AX4-5SC, AX4-5SCF4, AX4-5, AX4-5F8, AX4-5SCi, and AX4-5i are also called the AX4-5FSC, AX4-5FSCX, AX4-5F, AX4-5FX, AX4-5ISC, and AX4-5I, respectively.

The disk part number (PN) appears on a label on the front of the disk carrier.



#### CAUTION

**Verify that the proper version of FLARE 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 FLARE OE version is installed.**

Use EMC Navisphere® Express software to view the AX4-5 series FLARE OE version. Open Navisphere Express for the AX4-5 storage system and select **Software** from the **System** menu to open the System Software page. If the FLARE OE does not meet the minimum version required for your disks as shown in [Table 1](#), then upgrade FLARE OE on the storage systems before installing the disk. See the Upgrade section under **Service & support**, on the AX4-5 support website. For information on accessing the AX4-5 support website, refer to the support information that shipped with your storage system.

Changes and additions in the tables since the last revision of this document are noted in **bold blue** type.

## Usable disk space

Table 2 gives the usable space for the disks listed in Table 1.

**Table 1 Minimum FLARE OE revisions required for AX4-5 series disks**

Disk capacity	Model number	Part number	RoHS <sup>1</sup>	Drive type	Spindle speed	Platform	Minimum FLARE OE software revision
1 TB	AX-SS07-010	P/N005048805	CO	SATA II	7.2K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5 AX4-5SC AX4-5i AX4-5SCi	02.23.050.5.505
		P/N005048831 <a href="#">P/N005049024</a>	CO CO	SATA II	7.2K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5 AX4-5SC AX4-5i AX4-5SCi	02.23.050.5.703 02.23.050.5.505
750 GB	AX-SS07-750	PN005048777 PN005044830	CO	SATA II	7.2K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5 AX4-5SC AX4-5i AX4-5SCi	02.23.050.5.004
600 GB	AX-SS10-600	PN005048960	CO	3 Gb SAS	10K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5 AX4-5SC AX4-5i AX4-5SCi	02.23.050.5.703

<sup>1</sup> In the RoHS column, CO = RoHS compliant; NC = not RoHS compliant.

Disk capacity	Model number	Part number	RoHS <sup>1</sup>	Drive type	Spindle speed	Platform	Minimum FLARE OE software revision
600 GB	AXSS15-600	PN005048958 PN005049036	CO CO	3 Gb SAS	15K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5 AX4-5SC AX4-5i AX4-5SCi	02.23.050.5.703
450 GB	AX-SS15-450	PN005048877	CO	3 Gb SAS	15K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5 AX4-5SC AX4-5i AX4-5SCi	02.23.050.5.505
	NB-SS15-450	PN005048917 P/N005048957 PN005049035	CO CO CO	3 Gb SAS	15K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5 AX4-5SC AX4-5i AX4-5SCi	02.23.050.5.505
400 GB	AX-SS10-400	PN005048811	CO	3 Gb SAS	10K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5	02.23.050.5.004
						AX4-5SC	02.23.050.5.703
						AX4-5i	02.23.050.5.004
						AX4-5SCi	02.23.050.5.703
300 GB	AX-2SS10-300	P/N005049084	CO	3 Gb SAS	10K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5	02.23.050.5.004
						AX4-5SC	02.23.050.5.703
						AX4-5i	02.23.050.5.004
						AX4-5SCi	02.23.050.5.703

Disk capacity	Model number	Part number	RoHS <sup>1</sup>	Drive type	Spindle speed	Platform	Minimum FLARE OE software revision
	AX-SS15-300	P/N005048786 P/N005048875 P/N005048956 PN005049034	CO CO CO CO	3 Gb SAS	15K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5	02.23.050.5.004
						AX4-5SC	02.23.050.5.703
						AX4-5i	02.23.050.5.004
						AX4-5SCi	02.23.050.5.703
	NB-SS15-300	P/N005048786 P/N005048852	CO	3 Gb SAS NEBS	15K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5	02.23.050.5.004
						AX4-5SC	02.23.050.5.703
						AX4-5i	02.23.050.5.004
						AX4-5SCi	02.23.050.5.703
146 GB	AX-2SS10-146	P/N005049083	CO	3 Gb SAS	10K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5	02.23.050.5.004
						AX4-5SC	02.23.050.5.703
						AX4-5i	02.23.050.5.004
						AX4-5SCi	02.23.050.5.703
	AX-SS15-146	PN005048785 PN005048873 <a href="#">P/N005048963</a>	CO CO <b>CO</b>	3 Gb SAS	15K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5	02.23.050.5.004
						AX4-5SC	02.23.050.5.703
						AX4-5i	02.23.050.5.004
						AX4-5SCi	02.23.050.5.703

Disk capacity	Model number	Part number	RoHS <sup>1</sup>	Drive type	Spindle speed	Platform	Minimum FLARE OE software revision
146 GB	NB-SS15-146	P/N00548785 P/N00548851	CO CO	3 Gb SAS NEBS	15K rpm	AX4-5F8 AX4-5SCF4	02.23.050.5.707
						AX4-5	02.23.050.5.004
						AX4-5SC	02.23.050.5.703
						AX4-5i	02.23.050.5.004
						AX4-5SCi	02.23.050.5.703

**Table 2 Usable disk space**

Listed capacity <sup>2</sup>	Disk	Usable space per disk <sup>3</sup>
1 TB	Disk 0-3 (vault disk)	899.7566 GB
	Other disk	916.8738 GB
750 GB	Disk 0-3 (vault disk)	670.4635 GB
	Other disk	687.5807 GB
600 GB	Disk 0-3 (vault disk)	519.3825 GB
	Other disk	536.4997 GB
450 GB	Disk 0-3 (vault disk)	385.1804 GB
	Other disk	402.2976 GB
400 GB	Disk 0-3 (vault disk) <sup>4</sup>	349.3720 GB
	Other disk	366.4892 GB

<sup>2</sup> The listed capacity is the disk capacity listed for the disks in [Table 1](#).

<sup>3</sup> 1 GB = 1,073,741,824 bytes (1024<sup>3</sup>).

<sup>4</sup> 146 GB, 300 GB, and 400 GB disks are SAS disks so they cannot be used as vault disks (disks 0-3) in a base system running FLARE OE 02.23.050.5.5xx or lower.

Listed capacity <sup>2</sup>	Disk	Usable space per disk <sup>3</sup>
300 GB	Disk 0-3 (vault disk) <sup>4</sup>	250.9783 GB
	Other disk	268.0955 GB
146 GB	Disk 0-3 (vault disk) <sup>4</sup>	116.2548 GB
	Other disk	133.3719 GB

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