Hewlett Packard Enterprise

HPE EVA P6000 Disk Drive Firmware Support

Abstract

This document describes disk drive firmware support for all P6000 EVA models (EVA3000/5000, EVA4000/6000/8000, EVA4100/6100/8100, EVA4400/6400/8400, EVA P6300/P6500, and EVA P6350/P6550).

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Description

This document lists the supported Fibre Channel, near-online FATA (Fibre Channel Advanced Technology Attachment), SSD (solid state disk), and SAS (serial-attached SCSI) disk drive models and firmware versions for all currently active VCS and XCS controller software versions. HP recommends that you always maintain your array at active controller software versions.

NOTE:

• The information in this document is current as of the publication date.

• To maintain your storage system at the most current configuration, HP recommends that all disk drives use the recommended version of firmware.

For disk drive guidelines and best practices, see the Enterprise Virtual Array configuration best practices white paper for the appropriate array model. The white papers are available at the following website:

http://h18006.www1.hpe.com/storage/arraywhitepapers.html?jumpid=reg_R1002_USEN

Product models

HP EVA4000/6000/8000

HP EVA4100/6100/8100

HP EVA4400/6400/8400

HP EVA P6300/P6500 Enterprise Virtual Arrays

HP EVA P6350/P6550 Enterprise Virtual Arrays

NOTE:

Devices supported

through list the supported disk drives. You can use a combination of drive types if they support a common version of controller software and firmware.

Fibre Channel disk drives

Table 1 10K RPM Fibre Channel drives

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
36 GB, 10K RPM	BD03654499	3BE9	6.2x0
	BD03655B28	HP07	6.2x0
	BD03656ABA	HP0A	6.2x0
	BD03659532	HP05	6.2x0
72 GB, 10K RPM	BD07254498	3BE9	6.2x0
	BD07255B29	HP07	6.2x0
	BD07256ABB	HP0A	6.2x0
	BD07258224	HP04	6.2x0
	BD0725822B	HP05	6.2x0
146 GB, 10K RPM	BD14656ABC	HP0A	6.2x0
	BD14658225	HP04	6.2x0
	BD14655B2A	HP07	6.2x0
	BD1465822C	HP05	6.2x0
	BD1465B778	HP01	6.2x0
300 GB, 10K RPM	BD300DAJZF	HP02	6.2x0, 0953x000,[1] 10001000 or later
	BD30058226	HP04	6.2x0
	BD30058232	HP05	6.2x0
	BD3005B779	HP01	6.2x0
	BD300DADFP	HP04	6.2x0
400 GB, 10K RPM	BD400DADFQ	HP04	0953x000,[1] 10001000 or later
	BD450DAJZH	HP02	6.2x0, 0953x000,[1] 10001000 or later
600 GB, 10K RPM	BD600DAJZK	HP02	6.2x0, 0953x000,[1] 10001000 or later

[1] All XCS 0953x000 versions are inactive.

Table 2 15K RPM Fibre Channel drives

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
36 GB, 15K RPM	BF03653005	HP04	6.2x0
	BF03654564	3BE9	6.2x0
	BF03655B2B	HP07	6.2x0
	BF03658242	HP03	6.2x0
	BF036D8617	HP09	6.2x0
	BF036DAJZL	HP05	6.2x0
72 GB, 15K RPM	BF07255B2C	HP07	6.2x0
	BF0725754B	HP06	6.2x0
	BF07258243	HP03	6.2x0
	BF07258222	HP06	6.2x0
	BF0725A692	HP04	6.2x0
	BF0725A476	HP04	6.2x0
	BF072D6186	HP09	6.2x0
	BF072DAJZN	HP05	6.2x0
146 GB, 15K RPM	BF14658244	HP03	6.2x0
	BF14658227	HP06	6.2x0
	BF1465A693	HP04	6.2x0
	BF1465A477	HP04	6.2x0, 0953x000,[1] 10001000 or later
	BF146DA47A	HP04	6.2x0, 0953x000,[1] 10001000 or later
	BF146DA47C	HP09	6.2x0, 0953x000,[1] 10001000 or later
	BF146DAJZP	HP05	6.2x0, 0953x000,[1] 10001000 or later
300 GB, 15K RPM	BF300DASTH	HP03	6.2x0, 0953x000,[1] 10001000 or later
	BF3005A478	HP04	6.2x0
	BF300DA47B	HP04	6.2x0, 0953x000,[1] 10001000 or later
	BF300DA482	HP09	6.2x0, 0953x000,[1] 10001000 or later
	BF300D6188	HP04	6.2x0, 0953x000,[1] 10001000 or later
	BF300DAJZQ	HP05	6.2x0, 0953x000,[1] 10001000 or later
	BF0300DEDHC	HP04	6.2x0, 0953x000,[1] 10001000 or later

Table 2 15K RPM Fibre Channel drives *(continued)*

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
	BF0300DDYTH	HP03	6.2x0, 0953x000,[1] 10001000 or later
450 GB, 15K RPM	BF450DASTK	HP03	6.2x0, 0953x000,[1] 10001000 or later
	BF450DA483	HP09	6.2x0, 0953x000,[1] 10001000 or later
	BF450D6189	HP04	6.2x0, 0953x000,[1] 10001000 or later
	BF450DAJZR	HP05	6.2x0, 0953x000,[1] 10001000 or later
	BF0450DEDHD	HP04	6.2x0, 0953x000,[1] 10001000 or later
	BF0450DDYTK	HP03	6.2x0, 0953x000,[1] 10001000 or later
600 GB, 15K RPM	BF600DASTL	HP03	6.2x0, 0953x000,[1] 10001000 or later
	BF600DAJZT	HP05	6.2x0, 0953x000,[1]10001000 or later
	BF0600DEDHE	HP04	6.2x0, 0953x000,[1]10001000 or later
	BF0600DDYTL	HP03	6.2x0, 0953x000,[1]10001000 or later

[1] All XCS 0953x000 versions are inactive.

Table 3 Near-online (FATA) disk drives

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
250 GB, 10K RPM	ND2505823A	HP04	6.2x0
	ND25058238	HP05	6.2x0
	ND2505AGXU	HP00	6.2x0
400 GB, 7.2K RPM	NB40059392	HP03	6.2x0
500 GB, 7.2K RPM	NB50058855	HP03	6.2x0
	NB500DA48A	HP09	6.2x0
	NB0500DBFVQ	HP04	6.2x0
1 TB, 7.2K RPM	NB1000D4450	HP09	6.2x0, 0953x000,[1] 10001000 or later
	NB1000DCLAL	HP03	6.2x0, 0953x000,[1] 10001000 or later
	NB1000DBZPL	HP05	6.2x0, 0953x000,[1] 10001000 or later
	NB1000DEFRB	HP05	6.2x0, 0953x000,[1] 10001000 or later

Table 3 Near-online (FATA) disk drives *(continued)*

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
	NB1000DBFVR	HP04	6.2x0, 0953x000,[1] 10001000 or later
	NB1000DCWDE	HP06	10001000 or later
	NB1000DVYZL	HP01	10001000 or later
2 TB, 7.2K RPM[2]	NB2000DAMYV	HP05	10001000 or later
	NB2000DBZPN	HP05	10001000 or later
	NB2000DCWDF	HP06	10001000 or later
	NB2000DVYZN	HP01	10001000 or later

[1] All XCS 0953x000 versions are inactive.

[2] For EVA4400/6400/8400 models only. The capacity limit per disk group is 400 TB. This capacity limit is any combination of drives in a disk group that results in a total physical capacity of up to 400 TB (for example, 200 2 TB drives or 400 1 TB drives). See the QuickSpecs on these array models for their addressability limits and maximum array sizes. This drive is supported with XCS 10001000 or later.

Fibre Channel SSD drives

NOTE: Fibre Channel SSD drives are not supported on P63x0/P65x0 Enterprise Virtual Arrays.

Table 4 0 RPM Fibre Channel SSD drives

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
72 GB, 0 RPM	JL0072DAKXK	HP03	0952x000,[1] 09531000,[1,2] 10001000 or later
200 GB, 0 RPM	JL0200DBCQQ	HP03	09534000,[1,2] 10001000 or later
400 GB, 0 RPM	JL0400DBCQR	HP03	09534000,[1,2] 10001000 or later

[1] XCS 0952x000 was inactive as of November 1, 2011; XCS 09531000 was inactive as of June 15, 2010; and XCS 09534000 was inactive as of March 1, 2013.

[2] All XCS 0953x000 versions are inactive.

SAS disk drives

NOTE: SAS disk drives are supported only on P63x0/P65x0 Enterprise Virtual Arrays.

Table 5 10K Small Form Factor SAS drives

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
300 GB, 10K RPM	EG0300FBLSE	HPD8	10001000 or later
	EG0300FBDBR	HPDA	10001000 or later
	EG0300FBVFL	HPDE	10001000 or later
	EG0300FCVBF	HPD9	10001000 or later
	EG0300JEHLV	HPD3	10001000 or later
450 GB, 10K RPM	EG0450FBLSF	HPD8	10001000 or later

Table 5 10K Small Form Factor SAS drives *(continued)*

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
	EG0450FBDBT	HPDA	10001000 or later
	EG0450FBVFM	HPDE	10001000 or later
	EG0450FCVBH	HPD9	10001000 or later
600 GB, 10K RPM	EG0600FBLSH	HPD8	10001000 or later
	EG0600FBDBU	HPDA	10001000 or later
	EG0600FBVFP	HPDE	10001000 or later
	EG0600FCVBK	HPD9	10001000 or later
	EG0600JEHMA	HPD3	10001000 or later
900 GB, 10K RPM	EG0900FBLSK	HPD8	10001000 or later
	EG0900FBVFQ	HPDE	10001000 or later
	EG0900FCVBL	HPD9	10001000 or later
	EG0900JEHMB	HPD3	10001000 or later

Table 6 15K Small Form Factor SAS drives

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
146 GB, 15K RPM	EH0146FBQDC	HPD5	10001000 or later
	EH0146FAWJB	HPDK	10001000 or later
	EH0146FCBVB	HPD8	10001000 or later
300 GB, 15K RPM	EH0300FBQDD	HPD5	10001000 or later
	EH0300JDYTH	HPD4	10001000 or later
	EH0300JEDHC	HPD4	10001000 or later
	EH0300FCBVC	HPD8	10001000 or later
450 GB, 15K RPM	EH0450JEDHD	HPD4	10001000 or later
	EH0450JDYTK	HPD4	10001000 or later
600 GB, 15K RPM	EH0600JDYTL	HPD4	10001000 or later
	EH06000JEDHE	HPD4	10001000 or later

Table 7 15K Large Form Factor SAS drives

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
300 GB 15K RPM	EF0300FATFD	HPDB	10001000 or later
	EF0300FARMU	HPD9	10001000 or later
450 GB 15K RPM	EF0450FATFE	HPDB	10001000 or later
	EF0450FARMV	HPD9	10001000 or later

Table 7 15K Large Form Factor SAS drives *(continued)*

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
600 GB 15K RPM	EF0600FATFF	HPDB	10001000 or later
	EF0600FARNA	HPD9	10001000 or later

Table 8 7.2K Small Form Factor Midline SAS drives

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
500 GB, 7.2K RPM	MM0500FAMYT	HPD6	10001000 or later
	MM0500FBFVQ	HPD9	10001000 or later
1 TB, 7.2K RPM	MM1000FBFVR	HPD9	10001000 or later
	MM1000JEFRB	HPD6	10001000 or later

Table 9 7.2K Large Form Factor Midline SAS drives

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
2 TB, 7.2K RPM	MB2000FAMYV	HPD7	10001000 or later
	MB2000FBZPN	HPD4	10001000 or later
	MB2000FBUCL	HPDA	10001000 or later
	MB2000FCWDF	HPDA	10001000 or later
	MB2000FCZGH	HPD7	10001000 or later
	MB2000JFEPA	HPD2	10001000 or later
	MB2000JFEML	HPD2	10001000 or later
	MB2000JVYZN	HPD1	10001000 or later
3 TB, 7.2K RPM	MB3000FBNWV	HPD9	11001100 or later
	MB3000FBUCN	HPDA	11001100 or later
	MB3000FCWDH	HPDA	11001100 or later
	MB3000FCZGK	HPD7	11001100 or later
	MB3000JVYZP	HPD1	11001100 or later
4 TB, 7.2K RPM	MB4000FCWDK	HPDA	11001100 or later
	MB4000JFEPB	HPD2	11001100 or later
	MB4000JFEMN	HPD2	11001100 or later
	MB4000FCZGL	HPD7	11001100 or later
	MB4000JVYZQ	HPD1	11001100 or later

Table 10 SSD SAS drives

Type	HP model displayed in HP EVA P6000 Command View	Recommended firmware version	Supported controller software version
200 GB, 0 RPM	EO0200FBRVV	HPD9	10001000 or later
400 GB, 0 RPM	EO0400FBRWA	HPD9	10001000 or later

Downloading disk drive firmware

You can download the disk drive firmware bundled image and installation instructions from:

www.hpe.com/support/evadiskfirmware

- For the EVA4000/6000/8000, EVA4100/6100/8100 and EVA4400/6400/8400 families, select the **HP EVA FC Hard Disk Drive Firmware Bundle**, and then click **Download**.

- For the P6000 array family, select the **HP P6000 EVA SAS Hard Disk Drive Firmware Bundle**, and then click **Download**.

For instructions to download and install the firmware bundled images, see *Finding Disk Drive Firmware Images Read This First* file located at the same website.

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