

# HP StorageWorks 3000/5000 Enterprise Virtual Array connectivity 3.1A for Tru64 UNIX release notes

**Legal and notice information**

© Copyright 2007 Hewlett-Packard Development Company, L.P.

## Description

This document describes Tru64 UNIX operating system connectivity for HP StorageWorks 3000/5000 Enterprise Virtual Array (EVA3000/5000) controller software.

A complete library of EVA3000/5000 documentation is available on the HP support website:

<http://www.hp.com/support/manuals>

Under storage, click **Disk Storage Systems** and then select either **HP StorageWorks 3000 Enterprise Virtual Array** or **HP StorageWorks 5000 Enterprise Virtual Array** under EVA Disk Arrays.

[Update recommendation](#) Recommended

[Supersedes](#) 3.100

## Product models

EVA3000/5000

## FCA support

Table 1 lists the supported Fibre Channel Adapters (FCAs) and the recommended firmware versions.

**Table 1 FCA (HBA) Support**

FCA (HBA)	Driver	Adapter firmware version (recommended)
HP StorageWorks DS-KGPSA-CA 1Gb, 64-bit/33MHz PCI	Native	3.93a0
HP StorageWorks DS-KGPSA-DA 2Gb, 64-bit/66MHz PCI	Native	3.93a0
HP StorageWorks DS-KGPSA-EA 2Gb, 64-bit/133MHz PCI-X	Native	1.91x6
HP StorageWorks DS-A5132-AA 2Gb, 64-bit/133MHz PCI-X	Native	1.91x6
HP StorageWorks DS-A5134-AA 2Gb, 64-bit/133MHz PCI-X Dual	Native	1.91x6

## Operating systems

Table 2 lists the operating system specifications.

**Table 2 Operating system specifications**

Tru64 UNIX version (minimum)
5.1A (PK6) NHD7
5.1B-3 (PK5)

## Enhancements

This release includes support for EVA3000/5000 controller software VCS 3.110.

For details about VCS 3.110, see *HP StorageWorks 3000/5000 Enterprise Virtual Array release notes (VCS 3.110)*.

# Prerequisites

## Multiple-path support

Multiple-path capability is integrated into Tru64 UNIX. Using Tru64 UNIX with EVA storage requires no additional software to achieve high-availability, multiple-path capability.

# Compatibility/Interoperability

## Switch support

This release supports the Fibre Channel (FC) switches and firmware versions listed in the *HP StorageWorks SAN design reference guide*, available for download on the HP support website:

<http://www.hp.com/support/manuals>

Under storage, click **Storage Networking**, and then select **HP StorageWorks SAN** under HP StorageWorks SAN Solutions.

---

 **NOTE:**

HP recommends that you do not mix switch firmware versions in your SAN. It is considered a best practice to uniformly upgrade all switches in the SAN.

---

## Alpha servers support

Table 3 lists the EVA-compatible Alpha servers.

**Table 3 EVA-compatible Alpha servers**

Alpha Server	DS-KGPSA-CA support	DS-KGPSA-DA support	DS-KGPSA-EA support	DS-A51321-AA support	DS-A5134-AA support
AS800	Yes	No	No	No	No
AS1200	Yes	No	No	No	No
AS4000	Yes	No	No	No	No
AS4100	Yes	No	No	No	No
AS8200	Yes	No	No	No	No
AS8400	Yes	No	No	No	No
DS10	Yes	Yes	Yes	No	No
DS10L	Yes	Yes	Yes	No	No
DS15	No	Yes	Yes	Yes	Yes
DS20	Yes	No	No	No	No
DS20E	Yes	Yes	Yes	Yes	No
DS20L	Yes	Yes	Yes	No	No
DS25	Yes	Yes	Yes	Yes	Yes
ES40	Yes	Yes	Yes	Yes	No
ES45	Yes	Yes	Yes	Yes	Yes
ES47	No	Yes	Yes	Yes	Yes
ES80	No	Yes	Yes	Yes	Yes
GS60	Yes	No	No	No	No
GS60E	Yes	No	No	No	No
GS80	Yes	Yes	Yes	Yes	No
GS140	Yes	No	No	No	No
GS160	Yes	Yes	Yes	Yes	No
GS320	Yes	Yes	Yes	Yes	No
GS1280	No	Yes	Yes	Yes	Yes

Contact HP representative for latest information. See the HP website for locations and telephone numbers: <http://www.hp.com>.

## HP StorageWorks Storage System Scripting Utility

The latest version of the HP Storage System Scripting Utility (SSSU) is available on the software downloads website:

<http://www.hp.com/support/downloads>

Under storage, click **Storage software**, and then select **HP StorageWorks Command View EVA Software** under Storage Device Management Software. Select the version of the HP StorageWorks Command View EVA Media Kit you want to download.

# Important notes

## EVA best practices

Although the EVA3000/5000 is designed to work in a wide range of configurations, some of the configuration options can influence performance, usable capacity, or availability. If you have the necessary information, you can manage the configuration to optimize its attributes for a specific application. These configuration choices include:

- Number of disk groups
- Type of disk group
- Type and number of disks in a disk group
- Vraid levels (0, 1, and 5)
- Disk failure protection level (none, single, and double)
- Cache settings

For more information on any of the configuration choices, see the *HP StorageWorks Enterprise Virtual Array configuration best practices white paper* at:

[http://h71028.www7.hp.com/ERC/downloads/5982-9140EN.pdf?jumpid=req\\_R1002\\_USEN](http://h71028.www7.hp.com/ERC/downloads/5982-9140EN.pdf?jumpid=req_R1002_USEN)