



# New advanced functions and features for the IBM System Storage DS3500 - HVEC/XCC

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## At a glance

IBM® Storage offers new technology controller updates for DS3500 Storage controllers, providing Dynamic Disk Pooling, Enhanced FlashCopy®, and thin provisioning functionality. Host Connectivity improvements include Asymmetric Logical Unit Access (ALUA) and VMWare vStorage APIS for Array Integration (VAAI).

## Overview

IBM Storage announces new technology updates for DS3500 Storage controllers. The updates provide new technologies that include Dynamic Disk Pooling, Enhanced FlashCopy, and thin provisioning functionality. Additional new technologies improve host connectivity with new Asymmetric Logical Unit Access (ALUA) host connection types and increase VMWare host efficiency with vStorage APIs for Array Integration (VAAI).

With Dynamic Disk Pooling, customers will see simplified provisioning, advanced performance of their storage device through new disk virtualization functions, and a recovery advantage in vastly improved rebuild times. Thin provisioning allows storage administrators to drive up storage capacity utilization significantly with very little administrative overhead, maximizing the utilization of their infrastructure, reducing initial acquisition costs, and growing capacity as needed. The new Enhanced FlashCopy features increase the number of FlashCopies available, allow multiple consistency groups, and provides the new FlashCopy Rollback which restores the snapshots nearly instantaneously through mapping the FlashCopy volume to back to the base volume. The new FlashCopy features are able to be tested with the new *Try and Buy* feature, allowing a test of the functionality for 90 days before purchasing the premium feature.

ALUA allows access to a LUN without triggering an ownership transfer, simplifying path failover and increasing its speed. ALUA takes advantage of native failover in most network operating systems. VMWare VAAI adds functionality from VMWare to the DS3500, allowing it to complete storage tasks, such as copying virtual machines, without the direct interaction of the VMWare host, making the VMWare host more efficient.

## Key prerequisites

Any model of machine type 1746.

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## Planned availability date

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June 15, 2012

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## Product number

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Description	Machine type	Model number	Feature number	SEO number
Enhanced FlashCopy Base	1746	C2A,C4A,C4T	3901	49Y5954
Enhanced FlashCopy Upgrade (256 to 512)	1746	C2A,C4A,C4T	3902	49Y5955
Enhanced FlashCopy / VolumeCopy Bundle DS3500	1746	C2A,C4A,C4T	3903	49Y6059

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## Publications

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No publications are shipped with the announced products.

Refer to the publications that shipped with your base system for information.

Publications and product documentation are available at the IBM System Storage® Support site

<http://www.ibm.com/systems/support/storage/>

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## Services

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### Global Technology Services

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IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

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For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

<http://www.ibm.com/services/learning/index.html>

Select your country, and then select the product as the category.

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## Technical information

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### Specified operating environment

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#### **Hardware requirements**

DS3500 machine type 1746

#### **Compatibility**

Refer to the IBM System Storage Interoperation Center (SSIC) for a comprehensive list of supported environments, devices, and configurations

<http://www.ibm.com/systems/support/storage/config/ssic>

When using SSIC, select the following search criterion to view the interoperability support for this announcement:

- Product Family: IBM System Storage Entry Disk
- Product Model: DS3500
- Product Version: DS3500 (firmware level 07.83)

### Planning information

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You are responsible for downloading or obtaining from IBM , and installing designated Machine Code (microcode, basic input/output system code (called BIOS), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM Internet website or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

#### **Cable orders**

No cables required.

#### **Direct customer support**

Direct customer support for DS3500 Disk Systems is provided by IBM Operational Support Services--Support Line. This fee service provides voice and electronic access into the IBM support organization. IBM Operational Support Services--Support Line helps answer questions pertaining to product and feature usage (how to), configuration, and product compatibility for eligible products. For a list of the products supported via Support Line, visit

<http://www.ibm.com/services/sl/products/>

For more information on services, call 800-IBM-4YOU (426-4968).

### Security, auditability, and control

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This product uses the security and auditability features of host hardware.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

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## IBM Electronic Services

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IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled

solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

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## Terms and conditions

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### ***MES discount applicable***

Equal to the volume commitment discount

### ***Field installable feature***

Yes

### ***Warranty period***

Three years

An IBM part or feature installed during the initial installation of an IBM machine is subject to a full warranty effective on the date of installation of the machine. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty effective on its date of installation. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

### ***Customer setup***

Yes

### ***Machine code***

Same license terms and conditions as base machine

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## Pricing

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Feature number	Description
3901	Enhanced FlashCopy Base
3902	Enhanced FlashCopy Upgrade
3903	Enhanced FlashCopy / VolumeCopy Bundle DS3500

SEO number	Description
49Y5954	Enhanced FlashCopy Base
49Y5955	Enhanced FlashCopy Upgrade
49Y6059	Enhanced FlashCopy / VolumeCopy Bundle DS3500

Description	Machine type	Model number	Feature number	SEO number	Install type*
Enhanced FlashCopy Base	1746	C2A,C4A, C4T	3901	49Y5954	Both
Enhanced FlashCopy Upgrade (256 to 512)	1746	C2A,C4A, C4T	3902	49Y5955	Both
Enhanced FlashCopy / VolumeCopy Bundle DS3500	1746	C2A,C4A, C4T	3903	49Y6059	Both

- \* Install type:
- "Plant" denotes plant installation only.
  - "Field" denotes field installation only.
  - "Both" denotes both plant and field installation.

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### Pricing terms

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Prices in the following PDF prices link are suggested list prices on day of announcement for the U.S. only. They are provided for your information only. Dealer prices may vary, and prices may also vary by country. IBM list price does not include tax or shipping and is subject to change without notice.

[ENUS-112-092-LIST\\_PRICES\\_2012\\_06\\_04.PDF](#)

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