New advanced functions and features for the IBM System Storage DS3500

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At a glance

IBM® DS3500 introduces new Controller Firmware (CFW) 7.84, and adds more powerful premium features and simplified premium feature ordering.

Overview

IBM System Storage® combines major premium features to simplify ordering of DS3500 systems. Some premium features are now included in the base CFW for no additional charge, and other premium functions are now included in separate premium feature bundle options.

CFW version 7.84 now includes additional functions and features:

- Partitions, 128
- FlashCopy®, 32
- VolumeCopy, 256 (IBM recommends that VolumeCopy be used with FlashCopy)
- Full Disk Encryption

Additional premium feature options include:

- **Disaster Recovery Option for DS3500** offers 16 Enhanced Remote Mirrors (synchronous over Fibre Channel, including FC over Ethernet) and 32 Global Mirrors (asynchronous over Fibre Channel and IP mirroring over iSCSI)
- **Backup and Restore Option for DS3500** offers up to 512 point in time instances of Enhanced FlashCopy
- **Performance Read Cache for DS3500** enables the utilization of solid state disks (SSDs) accelerating reads from the storage, helping to increase performance of the disk system
- **Super Key for DS3500** enables all the functionality in the Disaster Recovery Option, the Backup and Restore Option, and the Performance Read Cache

All other premium feature keys remain available and functional with CFW version 7.84. Customers that upgrade to CFW version 7.84 will find that the keys that have already been purchased and activated still work as the functions worked before the firmware upgrade. Also, upgrading with the keys that were previously announced will still continue to unlock in the latest CFW version 7.84 the functionality that was delivered in earlier versions of CFW.

For example, a customer may have already purchased some earlier FlashCopy instances, and if it would be more efficient to continue with those features, then those options are available and still work under the new CFW. Other features, such
as the Turbo Performance Option and the 96 to 192 Drive Enclosure Expansion keys, continue to be available for the new code under current terms and conditions.

The new Solaris Host Kit for DS3500 provides entitlement and support for servers using DS3500 Disk Systems and hosting Solaris operating systems.

### Key prerequisites

<table>
<thead>
<tr>
<th>Description</th>
<th>Part number</th>
<th>CFW version</th>
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<tbody>
<tr>
<td>DS3512/DS3524 1746</td>
<td></td>
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<tr>
<td>Disaster Recovery Option for DS3500</td>
<td>3951</td>
<td>00W1454</td>
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<tr>
<td>Back Up &amp; Restore Option for DS3500</td>
<td>3952</td>
<td>00W1455</td>
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<tr>
<td>Performance Read Cache for DS3500</td>
<td>3953</td>
<td>00W1456</td>
</tr>
<tr>
<td>Super Key for DS3500</td>
<td>3970</td>
<td>00W1462</td>
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<tr>
<td>Solaris Host Kit for DS3500</td>
<td>4705</td>
<td>00W1463</td>
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### Planned availability date

December 7, 2012

### Product number

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### Publications

The following publications are shipped with the product:

**Shipped in hard copy:**

- System Storage DS3500 and EXP3500 Rack Installation and Quick Start Guide
  
**Shipped on Host Kit DVD:**

- IBM System Storage DS3500 and EXP3500 Installation, User's, and Maintenance Guide
  
- IBM System Storage DS3000, DS4000*, and DS5000 Command Line Interface and Script Commands Programming Guide
  
* DS4000 is a trademark of IBM.
IBM System Storage DS® Storage Manager Version 10.8 Installation and Host Support Guide

IBM System Storage DS Storage Manager Version 10 Copy Services User’s Guide

On the web:
All of the above publications.

All of the above publications are available on the IBM support website:

http://www.ibm.com/storage/support/

Product publications are available in English. IBM may translate these product publications. When completed, translations will be available through country ordering systems and the IBM support Web site.

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

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

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Global Technology Services

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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


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

Technical information

Specified operating environment

Hardware requirements

<table>
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<tr>
<th>DS3512/DS3524 1746 (Base - Snowmass)</th>
<th>FC</th>
<th>P/N</th>
<th>Prerequisites</th>
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Planning information

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.

Security, auditability, and control

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.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

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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.

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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
Terms and conditions

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

Pricing

For all local charges, contact your IBM representative.

Announcement countries

All European, Middle Eastern, and African countries.

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