



IBM System Storage hard drive refresh for DS3500 and DS3950 systems

Table of contents

1 Overview	2 Publications
1 Key prerequisites	3 Technical information
1 Planned availability date	5 Terms and conditions
1 Description	5 Prices
2 Product number	

Overview

Next-generation 10K hard disk drive features are now available for entry and midrange Storage systems. For DS3500 systems, new Storage Manager version 10.86 and Controller FirmWare level (CFW) version 7.86 are available and include a new HDD functionality, T10 Protection Information (T10 PI). These new drives are T10 PI capable, and the new Storage Manager and CFW enable T10 PI on other DS3500 drive options previously announced without that capability.

Key prerequisites

	FC	SEO/Part number	Prerequisites
DS3524:			
300GB 10K 2.5-inch SAS HDD	5211	00w1156	CFW 7.77, or later, 7.86 for PI
300GB 10K 2.5-inch SAS SED HDD	5251	00w1164	CFW 7.77, or later, 7.86 for PI
600GB 10K 2.5-inch SAS HDD	5221	00w1160	CFW 7.77, or later, 7.86 for PI
900GB 10K 2.5-inch SAS HDD	5229	00w1236	CFW 7.77, or later, 7.86 for PI
DS3950, EXP395:			
300GB 10,000 rpm FC-SAS DDM Gen2	6151	46w6925	CFW 7.77, or later
600GB 10,000 rpm FC-SAS DDM Gen2	6154	46w6928	CFW 7.77, or later
900GB 10,000 rpm FC-SAS DDM Gen2	6155	46w6931	CFW 7.77, or later

Planned availability date

- May 10, 2013: DS3500 products (1746)
- May 22, 2013: DS3950 products (1814)

Description

New Storage Manager v10.86, in conjunction with new CFW v7.86, adds the major disk integrity protocol T10 PI for the DS3500 controllers. T10 PI is an industry-standard extension to the SCSI standard that incorporates eight additional bytes of integrity metadata on each block of data to help ensure that block is being transferred without error between the storage controller and the PI-formatted disk drives. The new Storage Manager and CFW also include feature enhancements improving ease of use, such as data capture for key operational

statistics, Performance Monitor enhancements, a view-only role for administrative management, and other performance improvements.

These new disk drives have improved performance over the 10 K rpm drives they are replacing. For the DS3500, the new drives are formatted for the 520-byte blocks for T10 PI function. The following drive features previously announced for DS3500 without T10 PI capability, are now T10 PI capable.

Description	Machine type	Model number	Feature number	SEO/Part number
DS3524:				
2TB 7,200 rpm 3.5-inch 6Gb NL SAS HDD	1746	C2A,E2A	5176	00w1152
3TB 7,200 rpm 3.5-inch 6Gb NL SAS HDD	1746	C4A,E2A	5185	81Y9886
300 GB 15,000 rpm 6Gb SAS HDD	1746	C4A,C4T, E4A,E4T	5206	81Y9891
1TB 7,200 rpm 6Gb SAS NL	1746	C4A,C4T E4A,E4T	5270	81Y9872

Product number

Description	Machine type	Model number	Feature number	SEO/Part number
DS3524:				
300GB 10K 2.5-inch SAS HDD	1746	C4A,C4T, E4A,E4T	5211	00w1156
300GB 10K 2.5-inch SAS SED HDD	1746	C4A,C4T, E4A,E4T	5251	00w1164
600GB 10K 2.5-inch SAS HDD	1746	C4A,C4T, E4A,E4T	5221	00w1160
900GB 10K 2.5-inch SAS HDD	1746	C4A,C4T, E4A,E4T	5229	00w1236

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM®, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=113-058>

Publications

No publications are shipped with this option. 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/>

Services

Global Technology Services

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

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

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.

Technical information

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.

Direct customer support

Direct customer support for DS3000 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).

Supplies

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

Security, auditability, and control

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

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

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX® 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type "smitty esa_main", and select "Configure Electronic Service Agent ." In addition, ESA now includes a powerful Web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the "symptoms," diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer's business applications or business data is never transmitted to IBM.

More accurate reporting: Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support Web site at

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

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent . Reports are available for any system associated with the customer's IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledge base. Using Premium Search and the Electronic Service Agent information that has been collected from your system, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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

Terms and conditions

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 which 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 is the same as the machine it is installed.

Customer setup

Yes

Machine code

Same license terms and conditions as base machine

Prices

Description	Machine type	Model number	Feature number
DS3524: 300GB 10K 2.5-inch SAS HDD	1746	C4A,C4T, E4A,E4T	5211
300GB 10K 2.5-inch SAS SED HDD	1746	C4A,C4T, E4A,E4T	5251
600GB 10K 2.5-inch SAS HDD	1746	C4A,C4T, E4A,E4T	5221
900GB 10K 2.5-inch SAS HDD	1746	C4A,C4T, E4A,E4T	5229

Description	Machine type	Model number	Feature number	SEO/Part number	Install type*
DS3524: 300GB 10K 2.5-inch SAS HDD	1746	C4A,C4T, E4A,E4T	5211	00w1156	Both
300GB 10K 2.5-inch SAS HDD	1746	C4A,C4T, E4A,E4T	5251	00w1164	Both
600GB 10K 2.5-inch SAS HDD	1746	C4A,C4T, E4A,E4T	5221	00w1160	Both
900GB 10K 2.5-inch SAS HDD	1746	C4A,C4T, E4A,E4T	5229	00w1236	Both

* Install type:

- "Plant" denotes plant installation only.
- "Field" denotes field installation only.
- "Both" denotes both plant and field installation.

Pricing terms

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-113-058-LIST_PRICES_2013_04_16.PDF](#)

Trademarks

Electronic Service Agent is a trademark of IBM Corporation in the United States, other countries, or both.

IBM, PartnerWorld, System Storage and AIX are registered trademarks of IBM Corporation in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.

Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at:

<http://www.ibm.com/legal/us/en/>

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>