



Enhancements to IBM DCS3700 systems include new hard disk drive features and host connection capabilities

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Overview

New enhancements to IBM® System Storage® DCS3700 include:

- New single or ten-pack drive features offer new T10 Protection Information (PI) functionality
- New 10 GbE Host Interface Card enables iSCSI protocol and IP mirroring functions

These new functionalities are made possible with the new releases of Controller FirmWare (CFW) version 7.86 and Storage Manager version 10.86.

Key prerequisites

Minimum CFW level 7.77.

New 7.86 FirmWare is required for T10 PI functionality.

DCS3700 1818	FC	Prerequisites
10 GbE iSCSI dual port HIC	3320	Not compatible with FCs 3100 or 3101
2 TB 7,200 rpm 6Gb NL-SAS 3.5-inch HDD PI	3452	CFW 7.77, 7.86 for PI
2 TB 7,200 rpm 6Gb NL-SAS 3.5-inch HDD PI (10-pack)	3453	CFW 7.77, 7.86 for PI

Planned availability date

May 22, 2013

Description

The new drive feature is available in a single pack or 10-pack and offers new T10 PI functionality. T10 PI is information protection in addition to the SCSI Standards that allows 8 bytes of ECC (Error Checking and Correction) data to be appended to data blocks to help ensure data integrity. This new drive option is formatted to allow the additional metadata and the new level of firmware enables the function on the controller. The drives can be intermixed with other drive types in the enclosure and

mixed with non-PI drives in the same volume groups or arrays. When mixed with non-PI formatted drives, PI formatted volumes or LUNs cannot be created.

A new 10 GbE Host Interface Card, successfully used with other storage, adds iSCSI protocol functionality to the DCS3700. iSCSI protocol is used for transporting storage data over common Ethernet networks without expensive storage area networks. iSCSI also enables low cost asynchronous mirroring over IP with the purchase of the new Disaster Recovery Premium Feature Key.

These new functionalities are made possible by the new Controller FirmWare version 7.86, and Storage Manager version 10.86.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Product number

Description	Machine type	Model number	Feature number
DCS3700:			
10 GbE iSCSI dual port HIC	1818	80C	3320
2 TB 7,200 rpm 6Gb NL-SAS 3.5-inch HDD PI	1818	80C,80E	3452
2 TB 7,200 rpm 6Gb NL-SAS 3.5-inch HDD PI (10-pack)	1818	80C,80E	3453

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=113-056>

Publications

None

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.

System x and BladeCenter support services

Recommended core technical support

When you buy IBM System x® technology, include the support services you need -- to help keep both your hardware and software working for you, day after day, at peak performance. It's your first step toward helping to protect your investment and sustain high levels of system availability. We offer service-level and response-time options to fit your business needs. And we'll help you get started with a core support package that includes:

- **Continuous system monitoring**
Electronic monitoring that helps speed up problem-solving with automated, early detection of potential problems and system errors.
- **Hardware maintenance**
World-class remote and on-site hardware problem determination and repair services.
- **Software technical support**
Access to help line calls for fast, accurate answers to your questions during installation and throughout ongoing operations.

For more information, visit

<http://www.ibm.com/servers/eserver/xseries/services.html>

Technical information

Specified operating environment

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>

Planning information

Customer responsibilities

Physical configuration and installation planning are customer responsibilities. Refer to the *IBM Systems Storage DCS3700 Installation, User's, and Maintenance Guide* for additional 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, 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.

IBM Electronic Services

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

Warranty period

One year

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

No

Machine code

Same license terms and conditions as base machine

Prices

Description	Machine type	Model number	Feature number
DCS3700:			
10 GbE iSCSI dual port HIC	1818	80C	3320
2TB 6GB NLS HDD PI	1818	80C,80E	3452
2TB 6GB NLS HDD PI (x10)	1818	80C,80E	3453

Description	Feature number	Install type *
DCS3700:		
10 GbE iSCSI dual port HIC	3320	Both
2TB 6GB NLS HDD PI	3452	Both
2TB 6GB NLS HDD PI (x10)	3453	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-113-056-LIST_PRICES_2013_04_16.PDF](#)

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

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