



Product Bulletin:

Availability of 2TB 7200 rpm SATA HDD

Revision History

8 February 2010 - Initial version

16 February 2010 – Added “Important Notice” to section 1

15 March 2010 – Added DS14 shelf notes to section 2 and part table in section 5

30 April 2010 – Added DS14 (configured) shelf notes in section 2 and part table in section 5; added DOT 8.0GA ship rule with 2TB

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This product bulletin informs NetApp sales and NetApp partners about new or changed NetApp® products or services.

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1. Summary

This product bulletin announces the availability of 2TB 7200 rpm SATA disk drives for selected FAS storage systems. Starting in May 2010, customers may select 2TB disk drives for select storage systems. Please refer to the product availability section for more information regarding the availability of the drives in each storage platform.

In order to obtain optimal aggregate and RAID group configurations, NetApp strongly recommends using 64-bit aggregates in Data ONTAP® 8.0GA or later with 2TB drives. The 64-bit aggregate capacity limits and maximum spindle limitations vary by platform. Customers are required to use Data ONTAP 8.0GA or later for maximum system capacity with 2TB drives. The 2TB drives are also supported on the Data ONTAP 7G codeline starting with the 7.3.2 release. However, this requires the use of 32-bit aggregates, which results in storage inefficiency and performance impacts.

IMPORTANT NOTICE: The maximum system capacity does NOT increase with Data ONTAP 7G codeline starting with the 7.3.2 release, which means that the maximum spindle count for each platform will be REDUCED by 50% for 2TB drives. When a new configured system with a DS4243 or DS14mk2 AT storage shelf is selected with a 2TB disk drive, DOT 8.0GA or later will be shipped as the default Data ONTAP version. However, when SnapLock® or a software bundle containing SnapLock is selected, Data ONTAP 7G codeline remains as the default because SnapLock is not supported in DOT8.0.x. When ordering an “add-on” shelf for an existing configuration, NetApp strongly recommends upgrading to DOT 8.0GA or later and using 64-bit aggregates.

If a customer does not want to run Data ONTAP 8.0GA, an add-on shelf should be quoted. Alternatively, Data ONTAP 7G can be downloaded from the NOW™ (NetApp on the Web) site.

The physical right-size capacity of the new 2TB disk drive is 1656.0GB (1695744MB). The usable capacity is 1655.7GB (1695436.8MB).

2. What's New?

The 2TB 7200 rpm SATA disk drive marks the highest-capacity point for the NetApp product line. This is one of the lowest-cost-per-GB offerings in the disk drive portfolio. With the ability to pack more storage capacity in the same footprint, the new 2TB drive further reduces storage and infrastructure costs.

The 2TB drive in the DS4243 storage shelf was released in the February 2010 Quote Tool. Starting in April 2010, the 2TB drive was released in the DS14mk2 AT shelf as an ADD-ON. In May 2010, DS14mk2 AT shelves are made available for quoting as a configured option for DC power and MetroCluster environments.

Please note, in DS14mk2 AT shelves, this drive will be available as an ADD-ON only. However, for systems that do not support DS4243, such as DC power and MetroCluster, a configured option is available in May 2010.

Please refer to FAS2000 series product bulletins for additional information on 2TB internal.

This product bulletin will be updated when the additional part numbers are released.

3. Sales and Customer-Ready Tools (Training, SE, Customer Presentations, Datasheets, Sales Guides)

The 7200 rpm drives are ideal for secondary storage applications such as backup targets and data archives. In environments in which cost/GB is the primary consideration, a 2TB drive is a good fit. However, when customers are sensitive to price and performance—for example, high-workload storage applications or small Exchange deployments—smaller-capacity SATA drives are better suited. Please consult available best-practices guides for SATA storage for the ideal solution.

Please refer to the eConfigurator release schedule for the latest release dates.

Please refer to the published price list for your geographic area for the latest pricing information.

4. System Requirements

Refer to the NOW site for [supported platforms and the compatibility matrix](#).

Software Compatibility

The following table specifies the minimum Data ONTAP versions required for full compatibility with the 2TB disk drive:

Data ONTAP Version	DS4243	DS14mk2 AT
	X306A-R5	X294A-R5
7.3.2 or later	YES	YES
8.0GA or later	YES	YES

Important configuration notice: The 2TB disk drive has been qualified for use with the

Data ONTAP versions listed above. Customers are required to use at least the minimum supported versions of Data ONTAP listed above with the 2TB disk drive. NetApp strongly recommends using Data ONTAP 8.0GA or later with 64-bit aggregates. [When using the Data ONTAP 7.3.x release with the 2TB drive, the maximum spindle count for each platform will be reduced by 50%](#) (please refer to the “Storage Technical FAQ” link below for more details).

When a new configured system with a DS4243 or DS14mk2 AT storage shelf is selected with a 2TB disk drive, DOT 8.0GA or later will be shipped as the default Data ONTAP version. However, when SnapLock or a software bundle containing SnapLock is selected, Data ONTAP 7G codeline remains as the default because SnapLock is not supported in DOT8.0.x. When ordering an “add-on” shelf for an existing configuration, NetApp strongly recommends upgrading to DOT 8.0GA or later and using 64-bit aggregates.

If a customer does not want to run Data ONTAP 8.0GA, an add-on shelf should be quoted. Alternatively, Data ONTAP 7G can be downloaded from the [NOW](#) site.

Hardware Compatibility

The 2TB 7200 rpm SATA disk drive is available for use with FAS and V-Series 6000, 3100, 3070, 3040, FAS2040, and FAS2020 systems.

5. Product Information

Part Number	Description	Discount Category Code
X306A-R5	DSK DRV,2.0TB,7.2K RPM,3Gb,SATA,DS4243,R5	B
DS4243-0748-24A-QS-R5	DSK SHLF,24x2.0TB,7.2K,SATA,IOM3,QS,R5	B
DS4243-0724-12A-QS-R5	DSK SHLF,12x2.0TB,7.2K,SATA,IOM3,QS,R5	B
DS4243-0748-24A-R5-C	DSK SHLF,24x2.0TB,7.2K,SATA,IOM3,-C,R5	B
DS4243-0724-12A-R5-C	DSK SHLF,12x2.0TB,7.2K,SATA,IOM3,-C,R5	B
DS4243-0748-24A-PB-R5-C	DSK SHLF,24x2.0TB,7.2K,SATA,IOM3,PB,-C,R5	B
DS4243-0724-12A-PB-R5-C	DSK SHLF,12x2.0TB,7.2K,SATA,IOM3,PB,-C,R5	B
DS4243-0748-24A-PBR-R5-C	DSK SHLF,24x2.0TB,7.2K,SATA,IOM3,PBR,-C,R5	B
DS4243-0724-12A-PBR-R5-C	DSK SHLF,12x2.0TB,7.2K,SATA,IOM3,PBR,-C,R5	B
X294A-R5	DSK DRV,2.0TB,7.2K RPM,1.5Gb,SATA,R5	B
DSX-28.0TB-QS-R5	DS14MK2 SHLF,28.0TB SATA,QS,R5	B
DSX-28.0TB-DC-QS-R5	DS14MK2 SHLF,28.0TB SATA,DC,QS,R5	B
DSX-28.0TB-DC-R5-C	DS14MK2 SHLF,28.0TB SATA,DC,-C,R5	B
DSX-28.0TB-R5-C	DS14MK2 SHLF,28.0TB SATA,-C,R5	B
DSX-28.0TB-PBNDL-R5	DSK SHLF,28.0TB SATA,SupportEdge INC,R5	B
DSX-28.0TB-PBNDLR-R5	DSK SHLF,28.0TB SATA,SupportEdge,INC,R5	B

Quoting

Quoting is available for DS4243 and DS14mk2 AT shelf products through the eConfigurator starting in May 2010.

Product Availability

Important Notice: All DS4243 and “add-on” versions of DS14mk2 AT shelves are currently available. Normal production lead times apply. The configured version of DS14mk2 AT shelves for DC power and MetroCluster environments are expected to have longer than typical lead times for shipment. Initial orders for these latter configurations are expected to ship in late June 2010.

6. Regulatory Compliance

Products need to be validated against the NetApp Safety/EMI Regulatory Compliance List prior to order submission. The list is available at **PartnerCenter Compliance Information**. This is required to make sure that products are being sold only in the countries in which NetApp has received regulatory compliance certification.

7. Warranty and Service

Standard hardware warranty and services apply.

8. Additional Information

[See product page.](#)

Storage Technical FAQ: Please refer to the FAQ for answers to other storage-related questions, including right-sized capacity and maximum-capacity aggregate configuration recommendations.

Contact information: Please contact your NetApp sales or channel partner representative with questions concerning this bulletin.