



IBM System Storage N series adds additional features and capabilities to the N3220, N3240, N7950T, EXN3000, and EXN3500 systems

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Overview

The IBM® System Storage® N3220, N3240, and N7950T (2867 Model E22 and 2857 Models A12, A14 A22, and A24) systems now include support for SnapLock Compliance and SnapLock Enterprise features. Data ONTAP 8.1, or later, is required. The EXN3000 storage expansion unit now includes the option of using a 6 Gbps I/O module when using 6Gb SAS/SATA disk drives. This feature enables the use of Flash Pool storage and mixed SSD/SATA shelves with the N series systems. This feature requires Data ONTAP 8.1.1, or later.

The EXN3500 and N3220 systems now support a 900 GB small form factor SAS disk drive, expanding the capacity options available to customers.

N3240 systems now support 100 GB solid state disks (SSD) providing improved performance and configuration flexibility of the systems.

Key prerequisites

The IBM System Storage N series requires FC, NFS, CIFS, or iSCSI protocol function.

Planned availability date

December 7, 2012

Description

100 GB Solid state disks (#4050)

This feature provides one 100 GB solid-state drive. Physical storage capacity is up to 100 GB.

At least some of the storage in an N series system must be rotating disk drives; that is, the storage of an N series system may not be all SSD.

900 GB SFF SAS disk (#4102)

This feature provides one 900 GB SAS drive. Physical storage capacity is up to 900 GB.

IOM3 module (#2098)

This feature provides a 3 Gbps I/O module for the EXN3000. This module is mandatory for all expansions using SAS disks, and is optional for expansions using SATA disks.

IOM6 module (#2099)

This feature provides a 6 Gbps I/O module for the EXN3000. This module is optional for expansions using SATA disks. Using feature 2099 with SATA disks enables mixing SSDs (quantity of 6) with selected SATA disk capacities (quantity of 18) within a single expansion, improving the flexibility of the expansion. This mixed-shelf architecture is used in conjunction with Flash Pool technology included in Data ONTAP 8.1.1, or later. This feature requires Data ONTAP 8.1.1, or later.

SnapLock Compliance (#5909) and SnapLock Compliance - GW (#5934)

This feature enables the SnapLock Compliance licensed function subject to applying a feature activation code made available by IBM . This feature is also used for maintenance billing purposes.

The corequisite IBM 2870 feature must be purchased to establish authorization for use of the SnapLock Compliance licensed function before the feature activation code is provided by IBM .

Note: This feature requires Data ONTAP 8.1, or later.

SnapLock Enterprise (#5919) and SnapLock Enterprise - GW (#5944)

This feature enables the SnapLock Enterprise licensed function subject to applying a feature activation code made available by IBM . SnapLock Enterprise is designed to provide high performance and high security data permanence to disk-based primary and secondary N7950T storage subsystems. An integrated element of the proven IBM Data ONTAP operating system, SnapLock software is designed to support the accuracy, integrity, and security of data by helping prevent the alteration of business records and allow rapid online access for long periods of time. SnapLock Enterprise allows administrators to delete entire SnapLock Enterprise volumes. However, it is designed to prevent any SnapLock Enterprise user or administrator from deleting or modifying individual SnapLock Enterprise WORM records. This feature is also used for maintenance billing purposes.

The corequisite IBM 2870 feature must be purchased to establish authorization for use of the SnapLock Enterprise licensed function before the feature activation code is provided by IBM .

Note: This feature requires Data ONTAP 8.1, or later.

Complete Bundle

The SnapLock Compliance and SnapLock Enterprise function is also being added to the Complete Bundle features for the N7950T.

Product number

Description	Machine	Model	Feature
Licensed Function Indicators:			
SnapLock Compliance	2867	E22	5909
SnapLock Enterprise	2867	E22	5919
SnapLock Compliance - GW	2867	E22	5934
SnapLock Enterprise - GW	2867	E22	5944

Description	Machine	Model	Feature
Licensed Function Indicators:			
SnapLock Compliance	2870	67J	5909
SnapLock Enterprise	2870	67J	5919

SnapLock Compliance - GW	2870	67J	5934
SnapLock Enterprise - GW	2870	67J	5944
Description	Machine	Model	Feature
Licensed Function Indicators:			
SnapLock Compliance	2857	A12	A8P5
SnapLock Enterprise	2857	A12	A8P6
SnapLock Compliance	2857	A22	A8PN
SnapLock Enterprise	2857	A22	A8PP
900 GB SFF SAS Disk Drive	2857	A12	4102
900 GB SFF SAS Disk Drive	2857	A22	4102
Description	Machine	Model	Feature
Licensed Function Indicators:			
SnapLock Compliance	2857	A14	A8Q5
SnapLock Enterprise	2857	A14	A8Q6
SnapLock Compliance	2857	A24	A8QN
SnapLock Enterprise	2857	A24	A8QP
100 GB Solid State Drive	2857	A14	4050
100 GB Solid State Drive	2857	A24	4050
Description	Machine	Model	Feature
Licensed Function Indicators:			
SnapLock Compliance	2870	571	A8P5
SnapLock Enterprise	2870	571	A8P6
SnapLock Compliance	2870	572	A8PN
SnapLock Enterprise	2870	572	A8PP
SnapLock Compliance	2870	573	A8Q5
SnapLock Enterprise	2870	573	A8Q6
SnapLock Compliance	2870	574	A8QN
SnapLock Enterprise	2870	574	A8QP
Description	Machine	Model	Feature
3 Gbps interface	2857	003	2098
6 Gbps interface	2857	003	2099
Description	Machine	Model	Feature
900 GB SFF SAS Disk Drive	2857	006	4102
	2857	A12, A22	4102

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=112-004>

Publications

The following publications are shipped with the product:

Title	Order number
Shipped as hardcopy:	
IBM System Storage N7X50 Series Filer Installation and Setup Instructions	GA32-0949

IBM System Storage N7X50 Series Gateway Installation and Setup Instructions GA32-0950

Shipped on CD-ROM, all above, and

IBM System Storage N7X50 Series Hardware and Service Guide GA32-0948

On the web, all above, and:

IBM System Storage N series Introduction and Planning Guide GA32-0543

All of the publications are available on the N series support website

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

Publications are only available for download for existing IBM N series customers who have registered their N series products on the N series support site.

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.

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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

Specified operating environment

Hardware requirements

Licensed machine code (LMC)

The SnapLock features require LMC level 8.1, or later. Some N7950T features and functions may not be available or supported in all environments. Current information on supported environments, prerequisites, and minimum operating systems levels are available at

<http://www.ibm.com/servers/storage/nseries>

Current license terms for the machine code provided with this product prohibit transfer of the machine code without approval from NetApp.

Licensed functions

Data ONTAP (feature) and Data ONTAP Essentials feature (which includes CFO) is *required* on every N7950T platform.

Licensed functions require the selection of N7950T Model E22 features and the acquisition of the corresponding IBM 2870 Model 67J function authorization features.

Software requirements

Current information on servers, operating systems, host adapters, and connectivity products supported by the Nseries systems are available at

<http://www.ibm.com/servers/storage/nas>

The required 2870 license features are the same as for the equivalent 2867 Model E22.

Limitations

- The N series systems are supported only in rack installations.
- This product is functional with the System i® and OpenPower® platforms. However, on the System i , support is available only on Linux™ on Power® and AIX® partitions, not i5/OS™ .
- Current license terms for the machine code provided with this product prohibit transfer of the machine code without approval from NetApp.

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 are required by the SnapLock features.

Security, auditability, and control

This product uses the security and auditability features of host hardware, host software, and/or application software to which it is attached.

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

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 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

No license terms apply

Pricing

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SnapLock Enterprise	2867	E22	5919
SnapLock Compliance - GW	2867	E22	5934
SnapLock Enterprise - GW	2867	E22	5944

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SnapLock Enterprise	2857	A12	A8P6
SnapLock Compliance	2857	A22	A8PN
SnapLock Enterprise	2857	A22	A8PP
900 GB SFF SAS Disk Drive	2857	A12	4102
900 GB SFF SAS Disk Drive	2857	A22	4102

Description	Machine type	Machine model	Feature number
Licensed Function Indicators:			
SnapLock Compliance	2857	A14	A8Q5
SnapLock Enterprise	2857	A14	A8Q6
SnapLock Compliance	2857	A24	A8QN
SnapLock Enterprise	2857	A24	A8QP
100 GB Solid State Drive	2857	A14	4050
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SnapLock Enterprise	2870	573	A8Q6
SnapLock Compliance	2870	574	A8QN
SnapLock Enterprise	2870	574	A8QP

Description	Machine type	Machine model	Feature number
3 Gbps interface	2857	003	2098
6 Gbps interface	2857	003	2099

Description	Machine type	Machine model	Feature number
900 GB SFF SAS Disk Drive	2857	006	4102

Description	Mach/Mod/Feat	Plant/ Field install	MES removal	Cab1 req.	CSU ¹	
SnapLock Compliance	2867/E22/5909	Both	N	N	Y	
SnapLock Enterprise	2867/E22/5919	Both	N	N	Y	
SnapLock Compliance - GW	2867/E22/5934	Both	N	N	Y	
SnapLock Enterprise - GW	2867/E22/5944	Both	N	N	Y	
SnapLock Compliance	2870/67J/5909	Both	N	N	Y	
SnapLock Enterprise	2870/67J/5919	Both	N	N	Y	
SnapLock Compliance - GW	2870/67J/5934	Both	N	N	Y	
SnapLock Enterprise - GW	2870/67J/5944	Both	N	N	Y	
SnapLock Compliance	2857/A12/A8P5	Both	N ²	N	Y	
SnapLock Enterprise	2857/A12/A8P6	Both	N ²	N	Y	
SnapLock Compliance	2857/A22/A8PN	Both	N ²	N	Y	
SnapLock Enterprise	2857/A22/A8PP	Both	N ²	N	Y	
SnapLock Compliance	2857/A14/A8Q5	Both	N ²	N	Y	
SnapLock Enterprise	2857/A14/A8Q6	Both	N ²	N	Y	
100 GB solid state Drive	2857/A14/4050	Both	N ²	N	Y	
SnapLock Compliance	2857/A24/A8QN	Both	N ²	N	Y	
SnapLock Enterprise	2857/A24/A8QP	Both	N ²	N	Y	
100 GB solid state Drive	2857/A24/4050	Both	N ²	N	Y	
SnapLock Compliance	2870/571/A8P5	Both	N ²	N	Y	
SnapLock Enterprise	2870/571/A8P6	Both	N ²	N	Y	
SnapLock Compliance	2870/572/A8PN	Both	N ²	N	Y	
SnapLock Enterprise	2870/572/A8PP	Both	N ²	N	Y	
SnapLock Compliance	2870/573/A8Q5	Both	N ²	N	Y	
SnapLock Enterprise	2870/573/A8Q6	Both	N ²	N	Y	
SnapLock Compliance	2870/574/A8QN	Both	N ²	N	Y	
SnapLock Enterprise	2870/574/A8QP	Both	N ²	N	Y	

3 Gbps interface	2857/003/2098	Plant	N	N	Y
6 Gbps interface	2857/003/2099	Plant	N	N	Y
900 GB SFF SAS Disk Drive	2857/006/4102	Both	N	N	Y
900 GB SFF SAS Disk Drive	2857/A12/4102	Both	N	N	Y
900 GB SFF SAS Disk Drive	2857/A22/4102	Both	N	N	Y

1 Customer setup

2 The feature can be removed only through a feature conversion transaction.

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-112-004-LIST_PRICES_2012_11_13.PDF](#)

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