



IBM System Storage N series function authorizations for IBM System Storage N3150

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Overview

IBM® System Storage® N series function authorizations are for billing purposes only. They establish authorization for use of the licensed functions on the following IBM System Storage N series hardware:

- N3150 Model A15: 2870 Model 575
- N3150 Model A25: 2870 Model 576

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Key prerequisites

- Model 575: IBM System Storage N3150 Model A15
- Model 576: IBM System Storage N3150 Model A25

Planned availability date

December 7, 2012

Description

All N3150 licensed functions are enabled, authorized, and activated at the 2857 system level. The following terms are defined in the context of licensed functions.

2857 system refers to the 2857 Model A15 or Model A25.

Enablement refers to the selection of a 2857 licensed function indicator feature number to technically activate a licensed function.

Authorization refers to an acquisition of an N series function authorization (IBM 2870) feature to establish authorization for use of a licensed function.

Activation refers to the installation of an activation code into the 2857 system. The activation code is made available by IBM .

Enablement: Each licensed function is enabled for a 2857 system when you select the appropriate licensed function indicator feature on the 2857 system. These features cannot be selected on any attached expansion units.

Authorization: Authorization for the use of a licensed function on a 2857 system is established when you acquire 2870 function authorization feature numbers for the 2857 system.

Each function authorization that you acquire for a 2857 system establishes the authorization level for the 2857 system. For example, a 2857 system with a Model A15 requires only one Data ONTAP (2870 Model 575 #A8R7) function authorization.

When you initially acquire 2870 function authorization feature numbers with a 2857 system (plant order), your 2870 function authorization is assigned an IBM serial number. To acquire additional function authorizations for that system, you must order function authorization features using the 2870 serial number associated with that system.

Each system can have only one associated 2870 function authorization serial number.

Activation: Licensed functions are activated when you install activation codes into the 2857 system. The activation codes are made available by IBM .

The installation of activation codes is a client responsibility; however, IBM may choose to factory-install the activation codes on new machine orders.

Reference information

Refer to Hardware Announcement [112-191](#), dated November 06, 2012 , IBM System Storage N series N3150 offers enterprise-class iSCSI and NAS storage.

Product number

Description	Machine	Model	Feature
N3150 575 Func Authorization	2870	575	
N3150 576 Func Authorization	2870	576	
Licensed Function Indicators:			
Data ONTAP Essentials	2870	575	A8R0
iSCSI	2870	575	A8R2
CIFS	2870	575	A8R3
NFS	2870	575	A8R4
SnapLock Compliance	2870	575	A8R5
SnapLock Enterprise	2870	575	A8R6
Data ONTAP	2870	575	A8R7
SnapRestore	2870	575	A8R8
SnapMirror	2870	575	A8R9
SnapVault	2870	575	A8RA
FlexClone	2870	575	A8RB
SnapManager Suite	2870	575	A8RC
Complete Bundle	2870	575	A8RD
Data ONTAP Essentials	2870	576	A8RH
iSCSI	2870	576	A8RK
CIFS	2870	576	A8RL
NFS	2870	576	A8RM
SnapLock Compliance	2870	576	A8RN
SnapLock Enterprise	2870	576	A8RP
Data ONTAP	2870	576	A8RQ
SnapRestore	2870	576	A8RR
SnapMirror	2870	576	A8RS
SnapVault	2870	576	A8RT
FlexClone	2870	576	A8RU
SnapManager Suite	2870	576	A8RV
Complete Bundle	2870	576	A8RW

Host software:

SnapDrive for UNIX™ - AIX®	2870	575, 576	8024
SnapDrive for UNIX - Solaris	2870	575, 576	8025
SnapDrive for UNIX - HP-UX	2870	575, 576	8026
SnapDrive for UNIX - Linux™	2870	575, 576	8027
SnapDrive for Windows™	2870	575, 576	8050
ONTAP DSM for Windows MPIO	2870	575, 576	8052
SnapManager/Oracle - WIN	2870	575, 576	8129
SnapManager/Exchange - Host	2870	575, 576	8131
SnapManager/VI - Host	2870	575, 576	8133
SnapMgr Hyper-V - Host	2870	575, 576	8135
SnapManager for SAP - Win	2870	575, 576	8140
SnapManager for SQL - Host	2870	575, 576	8141
SnapManager for Oracle	2870	575, 576	8143
SnapManager for SAP	2870	575, 576	8145
SnapManager SharePoint-Host	2870	575, 576	8147
SM SharePoint Mgmt. Bundle	2870	575, 576	8149
Single Mbox Recovery 100pk	2870	575, 576	8150
Single Mbox Recovery 500pk	2870	575, 576	8151
Single Mbox Recovery 1000pk	2870	575, 576	8152
Single Mbox Recovery 2500pk	2870	575, 576	8153
Single Mbox Recovery 5K pk	2870	575, 576	8154
Single Mbox Recovery 10K pk	2870	575, 576	8155
Single Mbox Recovery 50K pk	2870	575, 576	8156
SMBR CA-ARCSERVE Extract Wiz	2870	575, 576	8158
SMBR Tivoli® Tape Extract Wiz	2870	575, 576	8159
SMBR Legato Tape Extract Wiz	2870	575, 576	8160
SMBR NetBackup Extract Wiz	2870	575, 576	8161
SMBR PST Tape Extract Wiz	2870	575, 576	8162
SMBR HP Extract Wiz	2870	575, 576	8163
SMBR Commvault Galaxy Ex Wiz	2870	575, 576	8164
SMBR UltraBac Extract Wizard	2870	575, 576	8165
SMBR Agent for Adv Search	2870	575, 576	8166
SMBR Content Analysis Wizard	2870	575, 576	8167
SMBR Administrative Server	2870	575, 576	8168
SMSP Archiver - Host	2870	575, 576	8186
OnCommand Core	2870	575, 576	8255

Model Conversions

From Type	Model	To Type	Model	Description
2870	575	2870	576	2870 Model 576

Feature conversions

Type	From	To	Description
2870	A8R0	A8RH	Data ONTAP Essentials
2870	A8R2	A8RK	iSCSI
2870	A8R3	A8RL	CIFS
2870	A8R4	A8RM	NFS
2870	A8R5	A8RN	SnapLock Compliance
2870	A8R6	A8RP	SnapLock Enterprise
2870	A8R7	A8RQ	Data ONTAP
2870	A8R8	A8RR	SnapRestore
2870	A8R9	A8RS	SnapMirror
2870	A8RA	A8RT	SnapVault
2870	A8RB	A8RU	FlexClone
2870	A8RC	A8RV	SnapManager Suite
2870	A8RD	A8RW	Complete Bundle

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).

Publications

No publications are shipped with the N series function authorizations. Publications are shipped with the N series hardware machine. All N series publications are available on the N series support website

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

Publications are only available for download for existing IBM N series clients 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.

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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

The N series function authorization (IBM 2870) establishes authorization for the use of licensed functions acquired for IBM System Storage N series hardware. Each 2870 function authorization is applicable only for the specific N series hardware machine (by serial number) for which it was acquired and is not transferable to another serial-numbered N series hardware machine.

Each 2870 function authorization feature number requires a corequisite licensed function indicator feature number on the N series hardware machine for which it was acquired.

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 required.

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

Volume orders: Contact your IBM representative.

IBM Global Financing

Yes

Warranty period

Warranty for a licensed function is entitled as a feature of the N series 2857 machine for which the licensed function is authorized, under the terms and conditions associated with that machine.

Warranty service

Warranty service for a licensed function is provided on the N series 2857 machine for which the licensed function is authorized, under the terms and conditions associated with that machine, and is available until the expiration of that machine's warranty period.

Warranty service upgrades

Usage plan machine

No

IBM hourly service rate classification

Not applicable. Service activity for a licensed function is performed on the N series 2857 machine.

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

Field-installable features

Yes

Model conversions

Yes

Machine installation

Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

Graduated program license charges apply

No

Licensed machine code

This product contains, or is provided together with, code which is licensed to the user, not sold. That code is copyrighted and may be the property of IBM, its supplier(s) or other third parties. You are authorized to use the code to the extent set forth in the applicable license agreement(s) provided with the product. You may also obtain a copy of applicable license agreement by contacting your IBM representative.

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

Machines using machine code

Machine	Machine code
2857-A15	2870-575
2857-A25	2870-576

IBM may release changes to the machine code. IBM plans to make the machine code changes available for download from the IBM System Storage technical support website

<http://www-03.ibm.com/servers/storage/support/nas/n3150/downloading.html>

If the machine does not function as warranted and your problem can be resolved through your application of downloadable machine code, you are responsible for downloading and installing these designated machine code changes as IBM specifies. If you would prefer, you may request IBM to install downloadable machine code changes; however, you may be charged for that service.

Educational allowance

A reduced charge is available to qualified education customers. The educational allowance may not be added to any other discount or allowance.

The educational allowance is 15% for the products in this announcement.

Pricing

Product charges

Description	Machine type	Machine model	Feature number
N3150 575 Func Authorization	2870	575	
N3150 576 Func Authorization	2870	576	
Licensed Function Indicators:			
Data ONTAP Essentials	2870	575	A8R0
iSCSI	2870	575	A8R2

CIFS	2870	575	A8R3
NFS	2870	575	A8R4
SnapLock Compliance	2870	575	A8R5
SnapLock Enterprise	2870	575	A8R6
Data ONTAP	2870	575	A8R7
SnapRestore	2870	575	A8R8
SnapMirror	2870	575	A8R9
SnapVault	2870	575	A8RA
FlexClone	2870	575	A8RB
SnapManager Suite	2870	575	A8RC
Complete Bundle	2870	575	A8RD

Data ONTAP Essentials	2870	576	A8RH
iSCSI	2870	576	A8RK
CIFS	2870	576	A8RL
NFS	2870	576	A8RM
SnapLock Compliance	2870	576	A8RN
SnapLock Enterprise	2870	576	A8RP
Data ONTAP	2870	576	A8RQ
SnapRestore	2870	576	A8RR
SnapMirror	2870	576	A8RS
SnapVault	2870	576	A8RT
FlexClone	2870	576	A8RU
SnapManager Suite	2870	576	A8RV
Complete Bundle	2870	576	A8RW

Host software:

SnapDrive for UNIX - AIX	2870	575, 576	8024
SnapDrive for UNIX - Solaris	2870	575, 576	8025
SnapDrive for UNIX - HPUX	2870	575, 576	8026
SnapDrive for UNIX - Linux	2870	575, 576	8027
SnapDrive for Windows	2870	575, 576	8050
ONTAP DSM for Windows MPIO	2870	575, 576	8052
SnapManager/Oracle - WIN	2870	575, 576	8129
SnapManager/Exchange - Host	2870	575, 576	8131
SnapManager/VI - Host	2870	575, 576	8133
SnapMgr Hyper-V - Host	2870	575, 576	8135
SnapManager for SAP - win	2870	575, 576	8140
SnapManager for SQL - Host	2870	575, 576	8141
SnapManager for Oracle	2870	575, 576	8143
SnapManager for SAP	2870	575, 576	8145
SnapManager SharePoint-Host	2870	575, 576	8147
SM SharePoint Mgmt. Bundle	2870	575, 576	8149
Single Mbox Recovery 100pk	2870	575, 576	8150
Single Mbox Recovery 500pk	2870	575, 576	8151
Single Mbox Recovery 1000pk	2870	575, 576	8152
Single Mbox Recovery 2500pk	2870	575, 576	8153
Single Mbox Recovery 5K pk	2870	575, 576	8154
Single Mbox Recovery 10K pk	2870	575, 576	8155
Single Mbox Recovery 50K pk	2870	575, 576	8156
SMBR CA-ARCSERVE Extract wiz	2870	575, 576	8158
SMBR Tivoli Tape Extract wiz	2870	575, 576	8159
SMBR Legato Tape Extract wiz	2870	575, 576	8160
SMBR NetBackup Extract wiz	2870	575, 576	8161
SMBR PST Tape Extract wiz	2870	575, 576	8162
SMBR HP Extract wiz	2870	575, 576	8163
SMBR Commvault Galaxy Ex Wiz	2870	575, 576	8164
SMBR UltraBac Extract Wizard	2870	575, 576	8165
SMBR Agent for Adv Search	2870	575, 576	8166
SMBR Content Analysis wizard	2870	575, 576	8167
SMBR Administrative Server	2870	575, 576	8168
SMSP Archiver - Host	2870	575, 576	8186
OnCommand Core	2870	575, 576	8255

	Mach/Mod/Feat	Plant/ Field install	MES removal	Cabl req. ¹	CSU
Data ONTAP Essentials	2870/575/A8R0	Both	N ²	N	Y
iSCSI	2870/575/A8R2	Both	N ²	N	Y
CIFS	2870/575/A8R3	Both	N ²	N	Y
NFS	2870/575/A8R4	Both	N ²	N	Y
SnapLock Compliance	2870/575/A8R5	Both	N ²	N	Y

SnapLock Enterprise	2870/575/A8R6	Both	N ²	N	Y
Data ONTAP	2870/575/A8R7	Both ³	N ²	N	Y
SnapRestore	2870/575/A8R8	Both	N ²	N	Y
SnapMirror	2870/575/A8R9	Both	N ²	N	Y
SnapVault	2870/575/A8RA	Both	N ²	N	Y
FlexClone	2870/575/A8RB	Both	N ²	N	Y
SnapManager Suite	2870/575/A8RC	Both	N ²	N	Y
Complete Bundle	2870/575/A8RD	Both ³	N ²	N	Y
SnapDrive for UNIX - AIX	2870/575/8024	Both	N	N	Y
SnapDrive for UNIX - Solaris	2870/575/8025	Both	N	N	Y
SnapDrive for UNIX - HPUX	2870/575/8026	Both	N	N	Y
SnapDrive for UNIX - Linux	2870/575/8027	Both	N	N	Y
SnapDrive for Windows	2870/575/8050	Both	N	N	Y
ONTAP DSM for Windows MPIO	2870/575/8052	Both	N	N	Y
SnapManager/Oracle - WIN	2870/575/8129	Both	N	N	Y
SnapManager/Exchange - Host	2870/575/8131	Both	N	N	Y
SnapManager/VI - Host	2870/575/8133	Both	N	N	Y
SnapMgr Hyper-V - Host	2870/575/8135	Both	N	N	Y
SnapManager for SAP - Win	2870/575/8140	Both	N	N	Y
SnapManager for SQL - Host	2870/575/8141	Both	N	N	Y
SnapManager for Oracle	2870/575/8143	Both	N	N	Y
SnapManager for SAP	2870/575/8145	Both	N	N	Y
SnapManager SharePoint-Host	2870/575/8147	Both	N	N	Y
SM SharePoint Mgmt. Bundle	2870/575/8149	Both	N	N	Y
Single Mbox Recovery 100pk	2870/575/8150	Both	N	N	Y
Single Mbox Recovery 500pk	2870/575/8151	Both	N	N	Y
Single Mbox Recovery 1000pk	2870/575/8152	Both	N	N	Y
Single Mbox Recovery 2500pk	2870/575/8153	Both	N	N	Y
Single Mbox Recovery 5K pk	2870/575/8154	Both	N	N	Y
Single Mbox Recovery 10K pk	2870/575/8155	Both	N	N	Y
Single Mbox Recovery 50K pk	2870/575/8156	Both	N	N	Y
SMBR CA-ARCSERVE Extract Wiz	2870/575/8158	Both	N	N	Y
SMBR Tivoli Tape Extract Wiz	2870/575/8159	Both	N	N	Y
SMBR Legato Tape Extract Wiz	2870/575/8160	Both	N	N	Y
SMBR NetBackup Extract Wiz	2870/575/8161	Both	N	N	Y
SMBR PST Tape Extract Wiz	2870/575/8162	Both	N	N	Y
SMBR HP Extract Wiz	2870/575/8163	Both	N	N	Y
SMBR Commvault Galaxy Ex Wiz	2870/575/8164	Both	N	N	Y
SMBR UltraBac Extract Wizard	2870/575/8165	Both	N	N	Y
SMBR Agent for Adv Search	2870/575/8166	Both	N	N	Y
SMBR Content Analysis Wizard	2870/575/8167	Both	N	N	Y
SMBR Administrative Server	2870/575/8168	Both	N	N	Y
SMSP Archiver - Host	2870/575/8186	Both	N	N	Y
OnCommand Core	2870/575/8255	Both	N	N	Y
Data ONTAP Essentials	2870/576/A8RH	Both	N ²	N	Y
iSCSI	2870/576/A8RK	Both	N ²	N	Y
CIFS	2870/576/A8RL	Both	N ²	N	Y
NFS	2870/576/A8RM	Both	N ²	N	Y
SnapLock Compliance	2870/576/A8RN	Both	N ²	N	Y
SnapLock Enterprise	2870/576/A8RP	Both	N ²	N	Y
Data ONTAP	2870/576/A8RQ	Both ³	N ²	N	Y
SnapRestore	2870/576/A8RR	Both	N ²	N	Y
SnapMirror	2870/576/A8RS	Both	N ²	N	Y
SnapVault	2870/576/A8RT	Both	N ²	N	Y
FlexClone	2870/576/A8RU	Both	N ²	N	Y
SnapManager Suite	2870/576/A8RV	Both	N ²	N	Y
Complete Bundle	2870/576/A8RW	Both ³	N ²	N	Y
SnapDrive for UNIX - AIX	2870/576/8024	Both	N	N	Y
SnapDrive for UNIX - Solaris	2870/576/8025	Both	N	N	Y
SnapDrive for UNIX - HPUX	2870/576/8026	Both	N	N	Y
SnapDrive for UNIX - Linux	2870/576/8027	Both	N	N	Y
SnapDrive for Windows	2870/576/8050	Both	N	N	Y
ONTAP DSM for Windows MPIO	2870/576/8052	Both	N	N	Y
SnapManager/Oracle - WIN	2870/576/8129	Both	N	N	Y
SnapManager/Exchange - Host	2870/576/8131	Both	N	N	Y
SnapManager/VI - Host	2870/576/8133	Both	N	N	Y
SnapMgr Hyper-V - Host	2870/576/8135	Both	N	N	Y
SnapManager for SAP - Win	2870/576/8140	Both	N	N	Y

SnapManager for SQL - Host	2870/576/8141	Both	N	N	Y
SnapManager for Oracle	2870/576/8143	Both	N	N	Y
SnapManager for SAP	2870/576/8145	Both	N	N	Y
SnapManager SharePoint-Host	2870/576/8147	Both	N	N	Y
SM SharePoint Mgmt. Bundle	2870/576/8149	Both	N	N	Y
Single Mbox Recovery 100pk	2870/576/8150	Both	N	N	Y
Single Mbox Recovery 500pk	2870/576/8151	Both	N	N	Y
Single Mbox Recovery 1000pk	2870/576/8152	Both	N	N	Y
Single Mbox Recovery 2500pk	2870/576/8153	Both	N	N	Y
Single Mbox Recovery 5k pk	2870/576/8154	Both	N	N	Y
Single Mbox Recovery 10K pk	2870/576/8155	Both	N	N	Y
Single Mbox Recovery 50K pk	2870/576/8156	Both	N	N	Y
SMBR CA-ARCSERVE Extract wiz	2870/576/8158	Both	N	N	Y
SMBR Tivoli Tape Extract wiz	2870/576/8159	Both	N	N	Y
SMBR Legato Tape Extract wiz	2870/576/8160	Both	N	N	Y
SMBR NetBackup Extract wiz	2870/576/8161	Both	N	N	Y
SMBR PST Tape Extract Wiz	2870/576/8162	Both	N	N	Y
SMBR HP Extract Wiz	2870/576/8163	Both	N	N	Y
SMBR Commvault Galaxy Ex Wiz	2870/576/8164	Both	N	N	Y
SMBR UltraBac Extract Wizard	2870/576/8165	Both	N	N	Y
SMBR Agent for Adv Search	2870/576/8166	Both	N	N	Y
SMBR Content Analysis Wizard	2870/576/8167	Both	N	N	Y
SMBR Administrative Server	2870/576/8168	Both	N	N	Y
SMSP Archiver - Host	2870/576/8186	Both	N	N	Y
OnCommand Core	2870/576/8255	Both	N	N	Y

- 1 Customer setup
- 2 The feature can be removed only through a feature conversion transaction.
- 3 The feature is field install only during a model conversion.

ServicePac prices

For ServiceElect (ESA) maintenance service charges, contact IBM Global Services at 888-IBM-4343 (426-4343).

Model conversion purchase price

Machine Type 2870 - model conversions

From Model	To Model	Returned Parts
575	576	No

Feature conversion purchase price

Feature from	to	Returned parts	Continuous maintenance
A8R0	A8RH	N	Y
A8R2	A8RK	N	Y
A8R3	A8RL	N	Y
A8R4	A8RM	N	Y
A8R5	A8RN	N	Y
A8R6	A8RP	N	Y
A8R7	A8RQ	N	Y
A8R8	A8RR	N	Y
A8R9	A8RS	N	Y
A8RA	A8RT	N	Y
A8RB	A8RU	N	Y
A8RC	A8RV	N	Y
A8RD	A8RW	N	Y

Pricing terms

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Reference: YE001

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