N6200 Series Filer
Installation and Setup Instructions

Covering N6210, N6220, N6240, N6250, and N6270 models
Contents

Before you begin................................ v

Installation and setup instructions.............. 1
  Unpacking the N6200 series filer.................. 1
  Installing the rails in an IBM 19-inch rack...... 4
  Installing the filer in the rack.................. 6
  Setting storage expansion unit shelf IDs......... 7
    Setting SAS expansion unit shelf IDs........... 7
    Setting EXN4000 or EXN1000 storage expansion unit shelf IDs.......... 9
  Attaching the cable management arms............ 9
  Connecting the N6200 series filer to a network . 10
  Connecting the system to expansion units........ 14
    Single enclosure HA, all protocols (FC and NAS). 14
    Dual enclosure HA, all protocols (FC and NAS) .......... 16
  Installing the power cables..................... 17
  Setting up and booting the system............... 18

Appendix. Troubleshooting and additional resources.... 21
  Troubleshooting tips............................. 21
  Additional resources............................ 22
Before you begin

Read this information before beginning your installation.

Before you begin your installation, print and complete a Configuration worksheet for your storage system to gather the information that the software setup process requires. The configuration worksheet is provided in the Data ONTAP Software Setup Guide for 7-Mode for your version of Data ONTAP, which is available on the IBM® N series support website:


If you are configuring a storage system as part of a high-availability (or active/active) configuration, some information types must be unique for each storage system mode in the configuration, and some information types must be identical on both storage system nodes. If you have a high-availability (or active/active) configuration, IBM recommends that you print and complete two copies of the configuration worksheet, one for each system node.

**Note:** In the Data ONTAP 7.2 and 7.3 release families, the term active/active configuration (or active/active pair) refers to a pair of storage systems or gateways (sometimes called nodes or controller modules) configured to serve data for each other if one of the two systems stops functioning. In the Data ONTAP 8.x 7-Mode release family, this functionality is referred to as a high-availability (HA) configuration or an HA pair.

About this document

This document provides installation and setup instructions for the IBM System Storage® N6210, N6220, N6240, N6250, and N6270 filer storage systems. Additional information about these products can be found in the N6200 Series Hardware and Service Guide.

Additional information about the N series storage expansion units you connect to your N6200 series system can be found in the Hardware and Service Guides and the Installation and Setup Instructions for your storage expansion units.

For additional information about your system and related topics, refer to the following resources.

- IBM System Storage N series Introduction and Planning Guide
- IBM Environmental Notices and User Guide

Read the safety notices

Before continuing, make sure that you have reviewed the safety notices shipped with this product. Do not plug any cables into the system, adapters, or any electrical outlets until you have reviewed the safety information and followed the procedures in this document.

Need help?

If you encounter any difficulties while setting up your system, contact IBM service and support for assistance. Information can also be found on the IBM N series support website:

About the IBM N series support website

The IBM System Storage N series support website requires users to register in order to obtain access to N series support content on the web. To understand how the N series support web content is organized and navigated, and to access the N series support website, go to the following publicly accessible web page:

www.ibm.com/storage/support/nseries/

This web page also provides links to AutoSupport information as well as other important N series product resources.

Items supplied by you for the installation

You need to supply the following items to complete the installation:

- Ethernet LAN cables
- Fibre Channel (FC) cables
- Console (for example, a PC or notebook)
- #2 Phillips screwdriver and slotted screwdriver

Installing in a non-IBM rack

The rack installation instructions provided in this document apply specifically to the installation of the N series product in an IBM 19-inch rack. IBM service personnel cannot install the N series product in a non-IBM rack.

If the N series product is being installed in a non-IBM rack, the rails shipped with the N series product may or may not work with the non-IBM rack. Physical installation of the N series product in a non-IBM rack is the customer's responsibility.
Installation and setup instructions

Use these instructions to install and set up your N6200 series filer.

Unpacking the N6200 series filer

Use these instructions to unpack the N6200 series filer.

**Important:** If your system was shipped already assembled and cabled in a rack, go directly to “Setting up and booting the system” on page 18.

Each N6200 series system enclosure ships with an accessories kit and set-up kit bag containing documentation and hardware parts for installing your system. The quantity of hardware parts is determined by your system configuration and requirements.

Each shipment container includes the following contents:

- N6200 series system enclosure
- N6200 series system bezel
- N6200 series Installation and Setup Instructions
- 2 Small Form Factor Pluggable (SFP) modules per node, provided in the accessory box or installed in the Fibre Channel ports of the system
- Electrostatic discharge (ESD) wrist strap
- Cables required for connections from your system to storage expansion units and for connections between storage expansion units, if ordered
- General information kit, containing warranty, safety, and environmental information
- Software license

**CAUTION:**
The weight of this part or unit is between 30.9 and 36.4 kg (68 and 80 lb). It takes three persons to safely lift this part or unit.

1. Remove the foam hardware protectors and the plastic surrounding the system.
2. Remove the storage system using the integrated handles attached to the sides of the storage system, as shown in Figure 1 on page 2. Place the storage system on a table.
Contents for each N6200 series model

The following lists and illustrations describe the contents of the shipping packages included with each N6200 series model. Each model also ships with at least one envelope with the software End User License Agreement (EULA) and license keys.

The N6210 2858-C10 and N6220 2858-C15 are single-enclosure, non-HA systems with one controller module. The N6210 2858-C10 and N6220 2858-C15 do not contain an Input/Output expansion module (IOXM). They ship with the following items:

- 1 Console adapter, RJ-45 to DB-9
- 2 Cable management arms
- 2 Power cords
- 1 Serial null modem cable
- 1 Rear tie-down bracket
- 1 IBM rail kit

The N6220 2858-E15, N6240 2858-E11, N6250 2858-E16, and N6270 2858-E12 are single-enclosure, non-HA systems with a single controller module and one Input/Output expansion module (IOXM). They ship with the following items:

- 1 Console adapter, RJ-45 to DB-9
- 4 Cable management arms (two per controller module, and two per IOXM)
- 2 Power cords

Figure 1. N6200 series system integrated handles

Figure 2. N6210 2858-C10 and N6220 2858-C15
• 1 Serial null modem cable
• 1 Rear tie-down bracket
• 1 IBM rail kit

Figure 3. N6220 2858-E15, N6240 2858-E11, N6250 2858-E16, and N6270 2858-E12

The N6210 2858-C20, N6220 2858-C25, N6240 2858-C21, and N6270 2858-C22 are single-enclosure HA systems with two controller modules. These models ship with the following items:
• 2 Console adapters, RJ-45 to DB-9 (one per controller module)
• 4 Cable management arms (two per controller module)
• 2 Power cords
• 2 Serial null modem cables (one per controller module)
• 1 Rear tie-down bracket
• 1 IBM rail kit

Figure 4. N6210 2858-C20, N6220 2858-C25, N6240 2858-C21, and N6270 2858-C22

The N6220 2858-E25, N6240 2858-E21, N6250 2858-E26, and N6270 2858-E22 are dual-enclosure HA systems. Each enclosure ships in a separate container, and each enclosure contains one controller module and one Input/Output expansion module (IOXM). The N6220 2858-E25, N6240 2858-E21, N6250 2858-E26, and N6270 2858-E22 ship with the following items:
• 2 Console adapters, RJ-45 to DB-9 (one per controller module)
• 8 Cable management arms (two per controller module and two per IOXM)
• 4 Power cords
• 2 Serial null modem cables (one per controller module)
• 2 Cluster connection cables (either SFP+ integrated copper cables or 10GbE SFP+ transceivers with fiber cables, depending on your order)
• 2 Rear tie-down brackets (one per enclosure)
• 2 IBM rail kits
Installing the rails in an IBM 19-inch rack

Use these instructions to install the rails on which you will mount the N6200 series filer.

Attention: Read these instructions in their entirety before proceeding.

Observe the following rules and restrictions when installing an N series system in a standard IBM 19-inch (48.26 cm) equipment rack with mounting rails:
DANGER

To avoid hazardous conditions due to uneven mechanical loading, always install the heaviest devices in the bottom of the rack cabinet. Always install servers and optional devices starting from the bottom of the rack cabinet. (R001 part 1 of 2)

- When installing storage expansion units in a rack, do not exceed the maximum storage limit for your system.
- Make sure that the ID on the back panel of each storage expansion unit matches the ID specified on its label.
- Always install the storage expansion units fully loaded. Do not remove disk drives to reduce the weight.

1. Loosen (but do not remove) the four rail adjustment screws on each rail.
2. Use the figure on the next page for reference. At the front of the rack, position the right-hand rail into the rack at the appropriate EIA location. Make sure that the two locating pins seat properly. The bottom of the rail should line up with the bottom EIA boundary.
   
   **Note:** When installed, each N6200 series filer enclosure will occupy a 3U space. Using two silver pan head M5 screws, attach the rail to the front of the rack using holes H3 and H7. Tighten these screws with a screwdriver.

3. At the rear of the rack, position the rail at the same EIA location used in step 2. Make sure that the locating pins seat properly. Using two silver pan head M5 screws, attach the rail to the rack using holes H2 and H8. Tighten these screws with a screwdriver.
4. Tighten the four rail adjustment screws on the installed rail.
5. Repeat steps 2 through 4 for the left-hand rail.
6. If you are installing a dual-enclosure model, repeat steps 1 through 5 for the second enclosure.
Installing the filer in the rack

Use these instructions to install the N6200 series filer in the rack.

**CAUTION:**
The weight of this part or unit is between 30.9 and 36.4 kg (68 and 80 lb). It takes three persons to safely lift this part or unit.

1. If attached, carefully remove the front bezel of the N6200 series filer with two hands by grasping the openings on either side of the bezel.
2. From the front of the rack, place the storage system onto the rails and slide it in until the front mounting bracket of the storage system is flush with the frame rails of the rack.
3. At the front of the rack, using four silver pan head M5 screws in the H2 and H8 holes, secure the system unit to the rack by threading the screws through the system unit bracket and the rack frame rail into the threaded rail nuts. Tighten the screws using a screwdriver.
4. Replace the front bezel of the N6200 series filer by snapping it back onto the storage system chassis.
5. From the rear of the rack, attach the rear tie-down bracket in the orientation shown to the rails using four M5 flat head screws. The tie-down bracket should fit over the rear of the system unit.
6. Any storage expansion units should be installed in the rack. Refer to the Installation and Setup Instructions for the N series storage expansion units to which you are connecting.

- Verify that all expansion unit IDs are correct and sequential in the individual loop(s) or stack(s), as described in “Setting storage expansion unit shelf IDs.”
- Verify that the speed switches are set correctly, if applicable.

Note: SAS storage expansion units, such as EXN3000, EXN3200, and EXN3500, do not have speed switches.

If this system was configured by manufacturing, there are labels on the outside of the packaging carton and on the side of the expansion unit chassis to indicate which loop (1-4) and on which node (A or B) that expansion unit should be located. Make certain the expansion units are placed and cabled according to these labels.

Setting storage expansion unit shelf IDs

Use these instructions to set the storage expansion unit shelf IDs.

Setting SAS expansion unit shelf IDs

A unique shelf ID (from 00 to 98) is required for each SAS storage expansion unit in a SAS stack.

If your storage system has SAS and FC storage expansion units, the shelf IDs do not need to be unique between the SAS and FC expansion units. (FC expansion unit shelf IDs continue to be unique within each FC loop. SAS expansion unit shelf IDs continue to be unique to all other SAS expansion units in the storage system.)
Visually verify that the shelf ID for each SAS storage expansion unit is unique. If an ID is not unique, set the ID:

1. Remove the front bezel if you have not already removed it.
2. Press and hold the shelf ID U-shaped tab or button until the first digit flashes.
3. Press the tab until the correct number is displayed.
4. Repeat steps 2 and 3 for the second digit.
5. Press and hold the tab until the second number stops flashing. Result: Both numbers start flashing and the Fault LED on the operations panel illuminates after about five seconds.
6. Power-cycle the SAS storage expansion unit to make the new expansion unit ID take effect.
7. Replace the front bezel.

Figure 6. Shelf ID tab on the EXN3000

Figure 7. Shelf ID button on the EXN3200

Figure 8. Shelf ID button on the EXN3500
Setting EXN4000 or EXN1000 storage expansion unit shelf IDs

A unique shelf ID (from 1 to 7) is required for each EXN4000 or EXN1000 in a loop.

Shelf ID 1 is used for the first unit in a new loop. Shelf IDs for additional units are incremented sequentially from the number of the first unit.

To adjust the storage expansion unit shelf ID, press the - or + buttons.

Note: This illustration shows a detailed view of the EXN4000. The Shelf ID buttons on the EXN1000 are in the same relative position.

Attaching the cable management arms

Each N6200 series controller module and Input/Output expansion module has two slots for attaching cable management arms.

Using the following instructions, attach two cable management arms to each controller module and Input/Output expansion module.

1. At the rear of the system, align a cable management arm with the slot on the left side of the module, as shown in Figure 9 on page 10. Make sure that the release button on the cable management arm faces towards the power supply. The side of arm with the text “Inside” printed on it should face the interior of module.
2. Push the cable management arm into the slot on the module until it locks into place.
3. Repeat these steps to attach a second cable management arm on the right side of each controller and Input/Output expansion module.
4. For dual-enclosure models, repeat these steps for all modules in the second enclosure.

Connecting the N6200 series filer to a network

Use these instructions to connect the N6200 series filer to a network.

Perform the steps in this section for each N6200 series controller node.

**Note:** Use the cable management arms and hook-and-loop fasteners to organize your cabling.

<table>
<thead>
<tr>
<th>Port Labels</th>
<th>Management</th>
<th>Private Management</th>
<th>SAS port</th>
<th>Fibre Channel</th>
<th>Ethernet</th>
<th>Console</th>
</tr>
</thead>
</table>

1. Connect the RJ-45 to DB-9 adapter (1 in Figure 10 on page 11) from the adapter kit to the console port on the system.
2. Connect one end of the serial null modem cable (2 in Figure 10 on page 11) to your console, and then connect the other end to the DB-9 end of the adapter.
3. Connect your system to the network by plugging the network cables (3 in Figure 11) into the networking ports, labeled e0a and e0b.

4. Connect the management port from the system to the network, using an Ethernet cable (4 in Figure 12 on page 12). 

   **Important:** The network for the management port must negotiate down to 10/100 or auto-negotiate.

5. If you are making SAS connections to N series storage expansion units and you plan to use Alternate Control Path (ACP) cabling, connect the N6200 series private management port (with the icon) to an ACP port on the SAS stack using a CAT6 Ethernet cable (5 in Figure 12 on page 12). For examples of private management port cabling, see step 2 in “Single enclosure HA, all protocols (FC and NAS)” on page 14 or step 2 in “Dual enclosure HA, all protocols (FC and NAS)” on page 16. Refer to the IBM System Storage N series Universal SAS and ACP Cabling Guide for additional details about connecting your system to SAS storage expansion units.
6. If you are making SAS connections to N series storage expansion units, connect SAS cables (6 in Figure 13) from the N6200 series SAS ports (0a and 0b) to the storage expansion units in your SAS stack. For examples of SAS cabling, see the cabling diagrams in "Connecting the system to expansion units" on page 14. Refer to the IBM System Storage N series Universal SAS and ACP Cabling Guide for additional details about connecting your system to SAS storage expansion units.

7. If you are making Fibre Channel connections to N series storage expansion units, or if you are connecting to a Fibre Channel switch, connect Fibre Channel cables (7 in Figure 14 on page 13) from the Fibre Channel ports (0c and 0d) to your storage expansion unit loops or Fibre Channel switch. Make sure that SFPs are installed and firmly seated in the Fibre Channel ports (0c and 0d) of the controller node and the In port of the first storage expansion unit in the loop(s) before attaching a Fibre Channel cable.
8. If your system is a dual-enclosure N6220 2858-E25, N6240 2858-E21, N6250 2858-E26, or N6270 2858-E22, use the controller-to-controller HA (interconnect) cables (8 in Figure 15) that shipped with your system to connect the controller HA ports (c0a and c0b) in the two system enclosures. Connect the c0a port from one enclosure to the c0a port on the other enclosure, and repeat for the c0b ports.
Connecting the system to expansion units

Use the cabling diagrams in this section to connect the N6200 series filer to the expansion units.

The following cabling diagrams show two common multipath cabling configurations using the onboard SAS ports on your N6200 series filer controller nodes. Multipath storage for high availability (active/active) configurations provides redundancy for the path from each controller to every storage expansion unit in the configuration.

“Single enclosure HA, all protocols (FC and NAS)” shows SAS and ACP cabling for a single-enclosure HA pair.

“Dual enclosure HA, all protocols (FC and NAS)” on page 16 shows SAS and ACP cabling for a dual-enclosure HA pair.

For detailed information about cabling N series SAS storage expansion units, such as EXN3000, EXN3200, or EXN3500, refer to the IBM System Storage N series Universal SAS and ACP Cabling Guide. The SAS ports and ACP ports on the SAS storage expansion unit IOMs are designated by square and circle symbols. All cabling is done in reference to connecting to either square or circle ports. SAS connectivity does not use the concept of In and Out ports.

Important: If you are connecting to EXN1000, EXN2000 or EXN4000 storage expansion units:

- When using onboard Fibre Channel ports to connect to EXN1000, EXN2000, or EXN4000 storage expansion units, the onboard ports must be set to initiator mode. For more information, see “Configuring for initiator mode” in the N6200 Series Hardware and Service Guide.
- SFPs must be used when connecting fiber cables.
- If you have a MetroCluster configuration, you must connect to EXN1000, EXN2000, or EXN4000 storage expansion units. SAS storage expansion units are not supported for N6200 series MetroCluster configurations.

Notes:

1. For SAN systems with quad-port host bus adapters (HBAs), see the Multipath and Dual-Path Cabling Information document on the IBM N series support website:
   www.ibm.com/storage/support/nseries/

2. If you are using optional adapter cards instead of the onboard ports to connect your system to expansion units, refer to the N6200 Series Hardware and Service Guide for an example of cabling instructions using adapter cards and required port usage and specifications for optional adapter cards.

Single enclosure HA, all protocols (FC and NAS)

Use these instructions to cable a single-enclosure HA pair.

The following steps show an overview of the cabling of a single-enclosure HA pair with onboard SAS connections to N series SAS expansion units.

1. Daisy-chain the SAS ports and ACP ports (if you are cabling ACP) in your SAS stack.

   Note: CAT6 Ethernet cables with RJ-45 connectors are required for all ACP connections.
2. Cable the controller-to-expansion unit connections and ACP connections.
Dual enclosure HA, all protocols (FC and NAS)

Use these instructions to cable a dual-enclosure HA pair.

The following steps show an overview of the cabling of dual-enclosure HA pair with onboard SAS connections to N series SAS storage expansion units.

1. Daisy-chain the SAS ports and ACP ports (if you are cabling ACP) in your SAS stack.

   **Note:** CAT6 Ethernet cables with RJ-45 connectors are required for all ACP connections.
Installing the power cables

Use these instructions to install the power cables for the N6200 series filer.

1. Make sure all power supply switches on the N6200 series filer and any attached expansion units are in the Off position.

2. For all storage systems that are being installed, connect the power cords to all power supply unit (PSU1 and PSU2) power receptacles using power cord retainer clips as shown below, making sure to slide the clip all the way forward on the plug.

3. Connect the power cords to the power sources, making sure that the two power supplies are connected to separate AC sources. This ensures redundant power.

Attention: Do not power on the system at this time.
Note: The N6200 series storage system has no requirement or provision for grounding. For proper grounding of expansion units, see the *Installation and Setup Instructions* for the expansion unit.

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**Setting up and booting the system**

Use these instructions to set up and boot the N6200 series filer.

1. Make sure the Configuration worksheet from the *Data ONTAP Software Setup Guide for 7-Mode* for your version of Data ONTAP is completed and available for use.

   Note: IBM recommends that you print a copy of this worksheet from the *Data ONTAP Software Setup Guide for 7-Mode* for your version of Data ONTAP.

2. Check that your system is properly set up. Make sure that the expansion unit IDs and speed switches are properly set, and that the cabling is correct for your configuration.

3. Start a console session for each controller module. Turn on the power to only the expansion units, making sure you turn them on within 5 minutes of each other. After you have powered on the storage expansion units, turn on the N6200 series filer controller modules.

   Note: It takes the LEDs on the system power supplies a few seconds to illuminate. The system begins to boot, and then it stops at the first installation question, which is displayed on the console window.

4. Use the console interface to answer the setup questions for each controller module in your system. Use the data you collected with the Configuration worksheet.

5. After you complete the setup, check the licenses on the N6200 series controller module(s) by entering the following command:
license
Add any missing licenses by entering the following command for each missing license:
license add <license_code>
where <license_code> is the license code for the product.

Note: Clustering must be licensed on both nodes in an N6200 series HA pair.

6. Reboot the node(s) by entering the following command:
   reboot
   Initial setup is now complete for a single-node N6200 series filer.
   Refer to the Data ONTAP Software Setup Guide for 7-Mode for your version of Data ONTAP to verify that the system is set up correctly and ready to operate.
   To complete the initial setup of a high availability or active/active N6200 series filer, continue to the next step.

7. Enable clustering by entering the following command on one node's console:
   cf enable

8. Check each node's status by entering the following command:
   cf status
   Initial setup is now complete for a high availability or active/active N6200 series filer.
   Refer to the Data ONTAP High Availability and MetroCluster Configuration Guide for your version of Data ONTAP to verify that the system is set up correctly and ready to operate.

9. IBM recommends that you enable AutoSupport and then use the AutoSupport feature to view the health of the system.
Appendix. Troubleshooting and additional resources

In this section you can find troubleshooting tips and a list of additional resources for the N6200 series filer.

Troubleshooting tips

Use these instructions if your N6200 series system does not boot when you power it on.

Follow these troubleshooting tips in the order shown here.
1. Look for a description on the console. Follow the instructions, if provided, on the console.
2. Check all cables and connections, making sure that they are secure.
3. Ensure that power is supplied and is reaching your system from the power source.
4. Check the power supplies on your system and attached storage expansion units. If the LEDs on a power supply are not illuminated, remove the power supply and reinstall it, making sure that it connects with the backplane.
5. Verify disk compatibility and check the disk shelf IDs for your storage expansion units:
   - For Fibre Channel storage expansion units:
     Within each loop, the storage expansion unit with disk shelf ID 1 must be directly connected to your system. All other storage expansion units within each loop must have unique IDs (between 2 and 7) and must be placed in consecutive order.
   - For SAS storage expansion units:
     All storage expansion units must have unique shelf IDs between 00 and 98.
For more information about shelf ID requirements, see the Hardware and Service Guide for your N series storage expansion unit.
6. Ensure that the storage expansion unit speeds are set correctly:
   - EXN1000, set to 2 Gb
   - EXN4000, set to 4 Gb or 2 Gb, as necessary

Note: SAS storage expansion units do not have speed switches.
7. Turn off your system and storage expansion units, and then turn on the storage expansion units. Check the Hardware and Service Guide for your N series storage expansion units for information about LED responses.
8. Use the system-level diagnostics to check the disks. For more information, see the IBM System Storage N series System-Level Diagnostics Guide.
9. If your system does not boot successfully, it might not have the boot image downloaded on the boot device. Call IBM Service and Support at 1-800-IBM-SERV (1-800-426-7378).
### Additional resources

Here you can find sources for additional information about the N6200 series filer.

<table>
<thead>
<tr>
<th>For more information about...</th>
<th>Refer to...</th>
</tr>
</thead>
<tbody>
<tr>
<td>New features, enhancements, known issues, and late-breaking news for your version of Data ONTAP software</td>
<td>The Release Notes for your version of Data ONTAP</td>
</tr>
<tr>
<td>Setting up and verifying software configuration</td>
<td>Data ONTAP Software Setup Guide for 7-Mode</td>
</tr>
<tr>
<td>Configuring and managing the iSCSI or FCP protocol, and creating and managing LUNs and initiator groups with the iSCSI or FCP service</td>
<td>Data ONTAP SAN Administration Guide for 7-Mode</td>
</tr>
<tr>
<td>Cabling, configuring, and disk ownership</td>
<td>Data ONTAP High Availability and MetroCluster Configuration Guide for 7-Mode</td>
</tr>
<tr>
<td></td>
<td>Data ONTAP System Administration Guide for 7-Mode</td>
</tr>
<tr>
<td></td>
<td>Data ONTAP Data Protection Guides</td>
</tr>
<tr>
<td>Hardware configuration options for your system</td>
<td>N series Introduction and Planning Guide</td>
</tr>
<tr>
<td></td>
<td>N6200 series Hardware and Service Guide</td>
</tr>
<tr>
<td>Troubleshooting the system</td>
<td>N series Platform Monitoring Guide</td>
</tr>
<tr>
<td></td>
<td>N series System-Level Diagnostics Guide</td>
</tr>
<tr>
<td>Configuring your Service Processor (SP) after initial setup</td>
<td>Data ONTAP System Administration Guide for 7-Mode</td>
</tr>
<tr>
<td>Replacing components</td>
<td>N6200 series Hardware and Service Guide</td>
</tr>
<tr>
<td>Safety information</td>
<td>IBM System Storage N series Safety Notices</td>
</tr>
</tbody>
</table>

The IBM N series support site contains additional information about N series hardware and software products:

Part Number: 35P3148

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