## CONTENTS

**Chapter 1**
Unpack your system ................................. 5
Unpack the disk processor enclosure ...................... 6
Unpack [optional] disk-array enclosures ...................... 7

**Chapter 2**
Prepare your system ................................ 9
Before you begin ........................................ 10
Installation requirements ............................... 10

**Chapter 3**
Rack and install .................................... 13
Install the disk processor enclosure ..................... 14
  Installing Snap-in Rails in Non-EMC Racks ............ 14
  Installing the disk processor enclosure ............... 17
Install 2U DAE rails .................................. 19
Install the 2U DAE .................................. 19
Cabling the DPE to a DAE ............................... 20
Cable the DPE to DAE ................................ 21
Attach the storage processors to the network .......... 24
Power up ........................................... 25
Verify DPE status LEDs ................................ 28
Attach the bezels .................................... 30

**Chapter 4**
Connect .............................................. 33
Connect a management station ......................... 34
Automatically Assigning a Dynamic VNXe Management Port IP Address .......... 34
Manually Assigning a Static VNXe Management Port IP Address ................. 35
CHAPTER 1

Unpack your system

Unpack and install the system components. Verify that you have everything that you need to assemble and cable the system.

- Unpack the disk processor enclosure ................................................................. 6
- Unpack [optional] disk-array enclosures ............................................................. 7
Unpack the disk processor enclosure

The disk processor enclosure (DPE) is a 2U component with either twelve 3.5” drive slots or twenty-five 2.5” drive slots. Verify that you have received all of the DPE components, including cables, bezel, rail kit, and mounting screws.

**Table 1 DPE container contents**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disk processor enclosure (DPE), 2U component with twenty-five 2.5” drive slots or 2U component with twelve 3.5” drive slots</td>
<td>![Image of DPE enclosure]</td>
</tr>
<tr>
<td>Rail kit, including</td>
<td>![Image of rail kit]</td>
</tr>
<tr>
<td>Snap-in rails (2)</td>
<td>Snap-in rails and DPE mounting screws (6, not shown)</td>
</tr>
<tr>
<td>Power cables (2)</td>
<td>![Image of power cables]</td>
</tr>
<tr>
<td>Bezel (1), with key</td>
<td>![Image of bezel]</td>
</tr>
<tr>
<td>Mini-USB adaptor (1)</td>
<td>![Image of Mini-USB adaptor]</td>
</tr>
<tr>
<td>Documentation kit</td>
<td>Quick Start document, Configuration Worksheet, Environmental information</td>
</tr>
</tbody>
</table>
Unpack [optional] disk-array enclosures

Disk-array enclosures (DAEs) provide additional storage. The VNXe1600 can utilize either of two DAEs. One is a 2U twelve disk 3.5" drive DAE. The other is a 2U twenty-five disk 2.5" drive DAE. DAEs are optional. If you have one or more DAE in the system, verify that you have received all of the DAE components, including cables, bezel, rail kit, and mounting screws.

Table 2 DAE container contents

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disk-array enclosure</td>
<td></td>
</tr>
<tr>
<td>2U DAE with twelve 3.5&quot; disks or 2U DAE with twenty-five 2.5&quot; disks</td>
<td></td>
</tr>
<tr>
<td>Mounting screws (4)</td>
<td></td>
</tr>
<tr>
<td>Adjustable rail kit, including adjustable rails (2)</td>
<td></td>
</tr>
<tr>
<td>Screws (3 per rail)</td>
<td></td>
</tr>
<tr>
<td>Power cables (2)</td>
<td></td>
</tr>
<tr>
<td>SAS cables (2)</td>
<td></td>
</tr>
<tr>
<td>mini-SAS to mini-SAS connectors</td>
<td></td>
</tr>
<tr>
<td>DAE to DAE connections</td>
<td></td>
</tr>
<tr>
<td>cable label sheet</td>
<td></td>
</tr>
<tr>
<td>SAS cables (2)</td>
<td></td>
</tr>
<tr>
<td>mini-SAS HD to mini-SAS connectors</td>
<td></td>
</tr>
<tr>
<td>DPE to DAE connections</td>
<td></td>
</tr>
</tbody>
</table>

Unpack your system
Unpack your system

Table 2 DAE container contents (continued)

<table>
<thead>
<tr>
<th>Item</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>cable label sheet</td>
<td></td>
</tr>
<tr>
<td>Bezel (1), with key</td>
<td>![Image of Bezel]</td>
</tr>
</tbody>
</table>
CHAPTER 2

Prepare your system

Use this section to understand what you need before you begin the installation as well as the site requirements for the system.

- **Before you begin** ........................................................................................................... 10
- **Installation requirements** .............................................................................................. 10
Before you begin

Procedure

1. Set up a product support account.
   
   If you do not already have a Product Support account, go to https://support.emc.com/products/38171_VNXe1600 to set one up. You will need a support account to access the latest documentation and troubleshooting information, online chat, installation and maintenance videos, utilities and wizards.

2. Complete the VNXe Series Configuration Worksheet.
   
   The VNXe Series Configuration Worksheet is available for download from https://support.emc.com/products/38171_VNXe1600.

Installation requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>For high availability: At least two 110 or 240 V AC circuits are required. Types of plugs: C13 and C14.</td>
</tr>
<tr>
<td>Network</td>
<td>• Two 1-gigabit Ethernet management connections</td>
</tr>
<tr>
<td></td>
<td>• Four CNA ports (two per SP) that can be configured as 2 x 10GbE ports, or 2 x 8G or 16Gb/s FC ports. 10G connectivity supports both the 10G optical SFP and the 10G Active/Passive TwinAX cables.</td>
</tr>
<tr>
<td></td>
<td>• CAT5e or better cables for each connection to the network</td>
</tr>
<tr>
<td></td>
<td>• DNS and NTP servers accessible from the storage system (recommended)</td>
</tr>
<tr>
<td></td>
<td>• Windows Domain Controller (recommended)</td>
</tr>
<tr>
<td></td>
<td>• SMTP server network connection to the storage system and the management host (optional)</td>
</tr>
<tr>
<td>Network information</td>
<td>If you are using the Connection Utility, the management port and login information required includes:</td>
</tr>
<tr>
<td></td>
<td>• A static IP address for the system</td>
</tr>
<tr>
<td></td>
<td>• The subnet mask of the LAN to which the system is connected</td>
</tr>
<tr>
<td></td>
<td>• The default gateway address of the LAN to which the system is connected</td>
</tr>
<tr>
<td></td>
<td>• Passwords for system users admin and service</td>
</tr>
<tr>
<td></td>
<td>If you are setting up the system on a network with DHCP servers, DNS servers, and Dynamic DNS services, you need:</td>
</tr>
<tr>
<td></td>
<td>• System serial number</td>
</tr>
<tr>
<td></td>
<td>• Domain information</td>
</tr>
<tr>
<td>Space</td>
<td>• Cabinet vertical space 2U (3.5 inches, 8.9 cm) for the disk processor enclosure (DPE)</td>
</tr>
<tr>
<td></td>
<td>• Cabinet vertical space of 2U for each optional DAE</td>
</tr>
</tbody>
</table>
Table 3 Site requirements (continued)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tools</td>
<td>Slotted or Phillips screwdriver</td>
</tr>
<tr>
<td>Management console</td>
<td>A Windows-based computer to run the initialization, maintenance, and management tools with:</td>
</tr>
<tr>
<td></td>
<td>• At least 100 MB of free space</td>
</tr>
<tr>
<td></td>
<td>• Connection on same LAN subnet as your VNXe system (recommended)</td>
</tr>
<tr>
<td></td>
<td>• Web browser (Internet Explorer, Mozilla Firefox, Google Chrome)*</td>
</tr>
<tr>
<td></td>
<td>• Adobe Flash Player*</td>
</tr>
<tr>
<td></td>
<td>*Supported versions are listed in the EMC VNXe Simple Support Matrix.</td>
</tr>
</tbody>
</table>
Prepare your system
EMC recommends installing the disk processor enclosure (DPE) in the lowest available location in a cabinet and then installing any optional disk-array enclosure (DAEs) above the DPE.

⚠️ CAUTION ⚠️

The enclosures are heavy and should be installed into or removed from a rack by two people. To avoid personal injury and/or damage to the equipment, do not attempt to lift and install an enclosure into a rack without a mechanical lift and/or help from another person.

- Install the disk processor enclosure ................................................................. 14
- Install 2U DAE rails ........................................................................................... 19
- Install the 2U DAE ............................................................................................. 19
- Cabling the DPE to a DAE .................................................................................... 20
- Cable the DPE to DAE ......................................................................................... 21
- Attach the storage processors to the network .................................................... 24
- Power up ............................................................................................................. 25
- Verify DPE status LEDs ..................................................................................... 28
- Attach the bezels ................................................................................................. 30
Install the disk processor enclosure

There are two types of DPE(s). Each is 2U. One utilizes 3.5" disks, while the other utilizes 2.5" disks. The installation procedure is identical, no matter which one you have in your system. Each DPE contains dual storage processors.

Figure 1  DPE front views

The DPE has a Product Serial Number Tag (PSNT tag) attached to the rear of the chassis. Before installation of the chassis, record the information from this PSNT tag on the VNXe Series Configuration Worksheet. See Figure 2 on page 14.

Figure 2  PSNT tag on the rear of the DPE chassis

Installing Snap-in Rails in Non-EMC Racks

This procedure describes how to install the snap-in rails into a Non-EMC rack.

Before you begin

The snap-in rails have key tabs. The key tabs are positioned at the rear of the rails. The key tabs ensure that the rails are installed in the appropriate 2U space.

Rails are dedicated left and right, and cannot be interchanged. Depending upon the configuration, the left rail may contain a field bezel cord cover. Rails that have this cover are installed in the same way.

Procedure

1. Align the 2U key tabs with the holes of the U-space in the rear rack channel.
2. Holding the rail extended, push the key tabs and the adaptors into the rear mounting holes until the spring clips snap into place on the outside of the rear rack channel.

3. Pull the rail forward and align the adaptor with the mounting hole on the front rack channel. Make sure the rail is level.
4. Push in on the spring clip while pulling forward on the rail. When the spring clip is forward of the front rack channel, and the adaptor is in the mounting holes, release the spring clip so it holds the rail in place.

**CAUTION**

Make sure the spring clip is securely attached to the channel. It may be necessary to push in on the clip to assist in snapping it into place.

5. From the rear of the rack, secure the rail in place using one M5 screw.
6. Repeat for the other rail.

**Installing the disk processor enclosure**

**Procedure**

1. Lift the enclosure and, from the front of the cabinet, slide the DPE onto the 2U DPE rails in the cabinet.

When the enclosure slides into the back of the cabinet, a rear tab on each rail hooks onto the rear of the enclosure side. The tabs secure and support the rear of the enclosure. See Figure 8 on page 18.
If the enclosure does not slide all the way into the cabinet, you may need to further loosen the screws that hold the rear of the rails in place, and then adjust the rails to allow the tabs to fit onto the enclosure sides.

2. Secure the front of the enclosure to the front vertical channels of the cabinet using four screws (two per side) into the DPE bracket screw holes and into the cabinet as shown in Figure 9 on page 18. It may be easier to install the screws working in a diagonal pattern, such as bottom left and top right, bottom right and top left.

3. Once the DPE is in place, tighten all the screws.
Install 2U DAE rails

The following procedure shows you how to install 2U DAE rails.

Procedure

1. Install the 2U DAE rails into the cabinet.

   The DAE rails should be installed above the topmost component in the cabinet. The rails must be aligned carefully so that they are level front to back and with the companion rail left to right.

   Refer to Figure 10 on page 19 while performing the procedure that follows.

   a. Insert the adjustable rail slide and seat both alignment pins into the rear channel of your cabinet.

   b. Extend the rail and align the front of the rails.

2. Insert one screw in the lowest hole of the front and two in the back of each rail.

   Figure 10  Installing 2U DAE rails

Install the 2U DAE

Refer to Figure 11 on page 20 when installing a 2U DAE.

Procedure

1. Slide the disk-array enclosure (DAE) into the DAE rails in the cabinet.

   Ensure that the enclosure is fully seated in the cabinet. The rail securing tabs/stops in the back will seat into the back of the enclosure at the correct depth, and the front of the enclosure will be flush with the cabinet face.

2. When the DAE is in place, insert and tighten all of the screws.
Cabling the DPE to a DAE

If you have one or more DAEs, these components must be cabled to the DPE so that the storage is available in the system.

The DPE contains dual storage processors, labeled SP A and SP B. The cables and cable labels identify connections for sides A and B as well.

Cabling between the DPE and a DAE uses two 2-meter mini-SAS HD to mini-SAS cables. These cables connect ports 0 and 1 on each SP of the DPE to Link Controller Card (LCC) ports on the DAEs. The DPE-to-DAE cables are shipped in the DAE box while the cable labels are packaged in the DPE shipping box. See the cables in Figure 12 on page 21. The DAE shipping container also contains two mini-SAS to mini-SAS cables. They have a single diamond ◆ on one connector and a single circle ● on the other connector. These cables can be used for DAE-to-DAE cabling. They are not used for DPE-to-DAE cabling.

The VNXe system supports two back-end ports for connection to storage (DAEs). Port 0 is connected internally to the SAS expander that connects all the disks in the DPE. Since Port 0 is already connected internally to the DPE disks, the first DAE is connected to Port 1 to balance the load on the SAS ports. A second loop can connect to port 0 of each SP.
Cable labels are included in a cable label kit should you wish to attach the labels to the cables as you install them. Labeling the cables may assist in troubleshooting if a problem arises in the future.

Cable the DPE to DAE

Procedure

1. Locate the SAS cables from the DAE box. They have mini-SAS HD connections on one end and mini-SAS connections on the other, as shown in Figure 12 on page 21. You need 2 of these cables. The other pair of cables have mini-SAS connections on both ends and can be used for additional DAEs.

Note

Cables are shipped without labels attached. Identify the cables by the connectors. The cables and ports are not colored. Bus 1 uses blue labels. Bus 0 uses orange labels.

Figure 12  SAS cables from DPE to DAE

2. Locate the sheet of cable labels in the DAE box.
3. Attach the cable labels to the cables as shown in Figure 13 on page 22.
4. Connect SP A SAS Port 1 to DAE 1 Link Controller Card (LCC) A. See cable 1.
5. Connect SP B SAS Port 1 to DAE 1 LCC B. See cable 2. Make sure the cables are installed properly and connected securely. Ensure that the release tabs on the mini-SAS HD end of the cables going into the DPE, SAS ports 0 and 1, on both SPs are up. See Figure 16 on page 23.

Figure 14 SAS cabling between the DPE and DAE1 for a 3.5" disk DAE
6. (optional) Connect SP A SAS Port 0 to DAE 2 LCC A. See cable 3 in Figure 17 on page 24.

7. (optional) Connect SP B SAS Port 0 to DAE 2 LCC B. See cable 4.

8. If you have additional DAEs, add labels to the mini-SAS to mini-SAS cables and use them to extend the loops as shown in Figure 17 on page 24. Figure 17 on page 24 shows an example of DPE to DAE cabling of a system with 5 optional DAEs in an interleaved arrangement as follows:

- DAE 5 (Bus 1/Enc 2)
- DAE 4 (Bus 0/Enc 2)
- DAE 3 (Bus 1/Enc 1)
- DAE 2 (Bus 0/Enc 1)
- DAE 1 (Bus 1/Enc 0)
- DPE (Bus 0/Enc 0)

For more information about interleaved as well as stacked cabling and buses and enclosure IDs, refer to the *VNXe1600 Hardware Information Guide*. 
Attach the storage processors to the network

Procedure

1. Locate two CAT5e or better Ethernet cables.

2. Connect two Ethernet cables from the LAN to the 1 Gb RJ45 ports labeled management from which you will configure the system. This will be one port on each storage processor. See Figure 18 on page 25.

Note

The SP A and SP B network data ports must be connected on the same subnet. In general, both SPs should have mirrored configurations in order to provide failover.
3. Attach Ethernet and/or Fibre Channel cables to the DPE ports, whether those built in to each SP or those on an I/O module, that you wish to use in order to create interfaces.

This step is optional and can be done at a later time. Only the management network cables installed in the previous step are required at this time.

**Note**

Additional information about the ports and cabling is in the *VNXe1600 Hardware Information Guide*, available on the [https://support.emc.com/products/38171_VNXe1600](https://support.emc.com/products/38171_VNXe1600).

### Power up

**Procedure**

1. Verify that the cabinet circuit breakers are in the On position and that power is connected to the cabinet.

2. For each power cable, plug the cable into the system component and secure it with the clip as shown [Figure 20 on page 26](#) and then plug the other end of the cable into the Power Distribution Unit (PDU).
3. Connect the power to the DPE. Connect the power supply for SP A to PDU A. Connect the power supply for SP B to PDU B.

The cable to PDU A is gray. The cable to PDU B is black.

4. Connect the power cables to optional DAEs. Connect the power cable for LCC A to PDU A. Connect the power cable for LCC B to PDU B.

Both DAE power cables are black. There is no difference between them. The enclosures start powering up immediately once they are connected to AC power.
Figure 21 Power cables to DAE with 2.5” drives

Figure 22 Power cables to DAE with 3.5” drives

5. Ensure that the DAE power cables are also clipped in place.
Figure 23  Power cable clips for the 2U 25-disk DAE

Figure 24  Power cable clips for the 2U 12-disk DAE

6. Dress the cables as necessary.
   It takes approximately 10-15 minutes for the system to power up. Monitor the system as it powers up. The LEDs show the progress of system activation. Green, blue, and amber activity lights blink during the startup sequence. Review the next section for information on the power up states.

Note
For information about powering down the system, see "Shut down the system" in the Unisphere online help system.

Verify DPE status LEDs

The system should be available in approximately 15 minutes.
This section calls out only the LEDs that you need to verify to ensure that the system powered up correctly.

Note
The VNXe1600 Hardware Information Guide provides more details on all system LEDs.

The array is powered up and ready to run the Connection Utility once the SP Fault/Status LEDs show a blue with amber blinking sequence every three seconds. If the system is on
a network with a DNS server and DHCP, the management IP address can be assigned automatically and those LEDs will be solid blue. Ensure that the power-up is complete and that the system is ready before you continue.

**DPE front status LEDs**
Verify that the storage system is up and running without error using the front facing physical indicators on the 12-drive DPE (Figure 25 on page 29) or 25-drive DPE (Figure 26 on page 29):

**Figure 25** 12-drive DPE status LEDs

![12-drive DPE status LEDs](image)

**Table 4** 12-drive LED descriptions

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3.5-inch disk drive</td>
<td>3</td>
<td>DPE power status LED (blue on)</td>
</tr>
<tr>
<td>2</td>
<td>DPE fault LED (amber off)</td>
<td>4</td>
<td>Disk drive ready/activity LED (blue on)</td>
</tr>
</tbody>
</table>

**Figure 26** 25-drive DPE status LEDs

![25-drive DPE status LEDs](image)

**Table 5** 25-drive LED descriptions

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.5-inch disk drive</td>
<td>4</td>
<td>Disk drive fault LED (amber off)</td>
</tr>
<tr>
<td>2</td>
<td>DPE fault LED (amber off)</td>
<td>5</td>
<td>Disk drive ready/activity LED (blue on)</td>
</tr>
</tbody>
</table>
Table 5 25-drive LED descriptions (continued)

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>DPE power status LED (blue on)</td>
</tr>
</tbody>
</table>

DPE rear status LEDs
Verify that the storage system is up and running without error using the rear facing physical indicators on the storage processor (Figure 27 on page 30):

Figure 27 SP status LEDs

Table 6 SP LED descriptions

<table>
<thead>
<tr>
<th>LED</th>
<th>Location</th>
<th>Status</th>
<th>Color</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP Power</td>
<td>1</td>
<td>On</td>
<td>Green</td>
<td></td>
</tr>
</tbody>
</table>
| SP Status/Fault      | 2        | • Blinking  
                         |        | On     | • Blue, blinking amber once every three seconds  
                         |        |        | • Blue                                                                  |
|                      |          |        |       | System not yet initialized.  
                         |          |        | • No IP address is assigned.  
                         |          |        | • A management IP address has been assigned.                          |
| Ethernet I/O         | 3        | On     | Green |                                                                      |

Attach the bezels

Procedure
1. Locate the bezels for each installed component.
2. Attach the bezel that corresponds to each component as shown in Figure 28 on page 31.
Each bezel can be locked in place by turning the key one quarter turn clockwise.
Rack and install
CHAPTER 4

Connect

After you finish installing, cabling, and powering up the system, the system must acquire an IP address for its management interface before you can register, license, or configure it.

- Connect a management station ............................................................. 34
- Automatically Assigning a Dynamic VNXe Management Port IP Address ........ 34
- Manually Assigning a Static VNXe Management Port IP Address ................. 35
Connect a management station

Note

At the end of the power-up process, the SP Status/Fault LEDs blink blue/amber, indicating that the system is ready to run the Connection Utility.

You must connect a management station to your system directly or remotely over a subnetwork. This computer will be used to continue setting up your system and must be on the same subnet as the storage system to complete the initialization.

NOTICE

Check to see if there is security software running on your workstation/laptop such as Cisco Security Agent or McAfee Host Intrusion Prevention Service that may prevent the initialized system from being detected. If there is, disable it (Windows Services) before running the initialization.

The system management ports support both IPv4 and IPv6. You can assign an IP address to a system in the following ways:

- If you are running system on a dynamic network that includes a DHCP server and a DNS server, the management IP address can be assigned automatically as explained in Automatically Assigning a Dynamic VNXe Management Port IP Address on page 34.

- If you are not running the VNXe in a network that supports DHCP or you would rather manually assign a static IP address, you must install and run the Connection Utility as explained in Manually Assigning a Static VNXe Management Port IP Address on page 35.

Automatically Assigning a Dynamic VNXe Management Port IP Address

Assigning an IP address to a VNXe system management port dynamically requires the following:

- Network DNS server (with dynamic DNS services enabled)
- Network DHCPv4 server and/or a DHCPv6 server and/or a router advertising DNS servers
- Connectivity between the VNXe system, the DHCP server, and the DNS server

The DHCP server must be configured to automatically register DHCP clients with Dynamic DNS services. By default, VNXe systems are configured to use DHCP for IP assignment and will accept an IP address offered by a network DHCP server.

Perform the following steps to automatically assign an IP address to your VNXe system management port:

Procedure

1. After you power up the VNXe system, check the SP Fault/Status LEDs
   - If the SP Fault/Status LEDs are solid blue, a management IP address has been assigned
• If the Fault/Status LEDs are blue and flash amber every three seconds, no management IP address has been assigned. Check the connectivity between the system, the DNS server, and the DHCP server.

2. Open a web browser and access the management interface specifying the following as a URL in the browser’s address bar: serial_number.domain

where

<table>
<thead>
<tr>
<th>Table 7 URL string</th>
</tr>
</thead>
<tbody>
<tr>
<td>URL string</td>
</tr>
<tr>
<td>serial_number</td>
</tr>
<tr>
<td>domain</td>
</tr>
</tbody>
</table>

Based on the examples provided in this table, the URL to the VNXe system would be FNM00131800283.mylab.emc.com.

Note
If a certificate error appears, follow the instructions in your browser to bypass the error.

3. Confirm that the SP Status/Fault LEDs are now out.
This provides an indication that the system’s IP address has been set.

4. Continue with the steps outlined in the VNXe Quick Start Guide.
The VNXe Quick Start Guide provides an overview of the steps remaining to configure, register, license, and update the software on your system.

Manually Assigning a Static VNXe Management Port IP Address

If you want to manually assign a static IP address for the VNXe system management port, you must install and run the Connection Utility. The Connection Utility assigns a network address to the VNXe system.

Procedure
1. Download and run the Connection Utility software.
   a. Download the Connection Utility installation program from the EMC Online Support website (https://support.emc.com), under the Downloads selection on the menu bar of the product page for your storage system.
   b. Install the Connection Utility software on a Windows computer. To use the Auto Discover method discussed below, install on a computer in the same subnet as the VNXe management port.
   c. Launch the Connection Utility (under Windows, Start > Programs > EMC > Connection Utility).
2. Use the Connection Utility to assign a Management IP address to your VNXe system.
   After running the Connection Utility, select one of the following options:
Select Auto Discover (recommended and click Next to assign a Management IP address to a VNXe system on the local subnet.

a. View VNXe systems on the subnet, select the Product ID/SN of the system you are currently attempting to install and configure, and click Next. If you don’t see your VNXe system, click Discover to scan the subnet again. (Make sure that the system is active and connected to the network.)

b. Specify a name, an IP address, subnet mask, and default gateway for the VNXe system, and click Next.

c. The Configuration Summary screen appears. When all entries are complete, click Finish. The Configuring the VNXe Device screen appears while the settings are implemented. The setup can take up to 10 minutes.

d. Click Start Unisphere to log in to Unisphere on the selected system.

Or select Manual Configuration and click Next to assign a Management IP address to a VNXe system on another subnet.

a. Specify a name, an IP address, subnet mask, and default gateway for the VNXe system and then click Save file to flash drive.

b. Connect the flash drive to the mini-USB port on either storage processor of the VNXe system to assign the IP address to the system.

Note
Use an adaptor if you are using a full-sized USB flash drive. A mini-USB adaptor is included in the DPE system box. Insert the mini-USB adaptor into the mini-USB port on SP A and connect to your flash drive.

c. Open a web browser to the IP address assigned to the VNXe system.

3. Confirm that the SP Status/Fault LEDs are now out, which indicates that the system's IP address has been set.

4. Continue with the steps in the VNXe Quick Start Guide. The VNXe Quick Start Guide provides an overview of the steps remaining to configure, register, license, and update the software on your system.