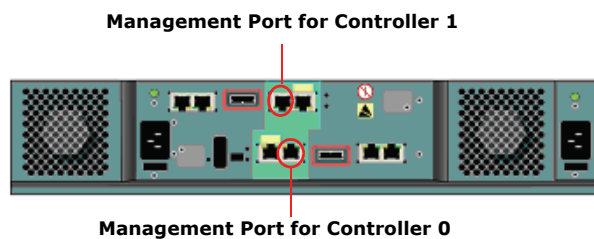


After you install your Hitachi Simple Modular Storage 100 array, use this Quick Configuration Guide to configure your array.

This guide describes how to perform the initial configuration of your Hitachi Simple Modular Storage. All configuration steps are performed using the Storage Navigator Modular 2 software supplied with your array. Storage Navigator Modular 2 provides easy-to-use wizards and point-and-click screens that you can follow to configure your array to suit your needs. For detailed information about the steps in this guide, along with descriptions of other configuration tasks you can perform, please refer to the Storage Navigator Modular 2 online help.

1 Install the Configuration Software

- A. Connect a management console to a management port labeled **LAN** on the back of the array.



The console should be configured with the following minimum (and recommended) settings:

- Intel processor: 1 GHz (2 GHz or faster)
- Memory: 1 GB or more
- Free disk space: 1.5 GB
- Screen resolution: 1024 x 768
- Microsoft® Windows® XP (SP 2), 2003 Server (SP 2), Windows 2000 (SP 3/4); Sun Solaris™ v8 or v9
- Browser: Internet Explorer v 6.0 (Windows) or Mozilla v1.7 (Solaris)

- B. Set the management console IP address to the subnet 192.168.0.x.

- C. Insert the Storage Navigator Modular 2 CD in the management console CD-ROM drive and follow the installation wizard.

If your computer is not configured to auto-run CDs, double-click on the file HSNM2-0101-W-GUI-P01.exe in the root (top) directory.

2 Log in to the Software

- A. Turn on the array. Verify the **Power** LED goes ON and the **Ready** LED goes ON about 4 minutes later.

- B. Log in to Storage Navigator Modular 2:

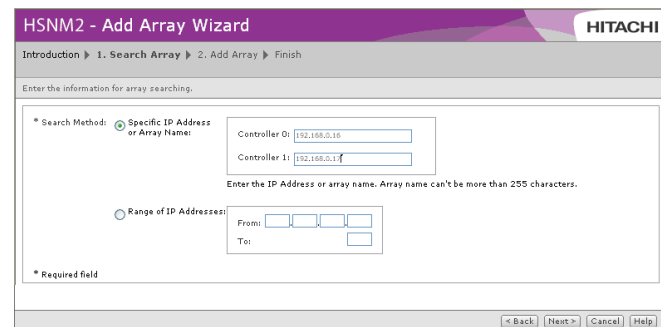
<http://<IP address>:23015/StorageNavigatorModular/>

where <IP address> is the one you configured for the management console in the previous step.

3 Add Arrays

The first time you configure your array, the Add Array wizard runs automatically. Use this wizard to enter the default IP address for each array management port:

- Controller 0: type **192.168.0.16**
- Controller 1: type **192.168.0.17** (omit this IP address if your array has only one controller)

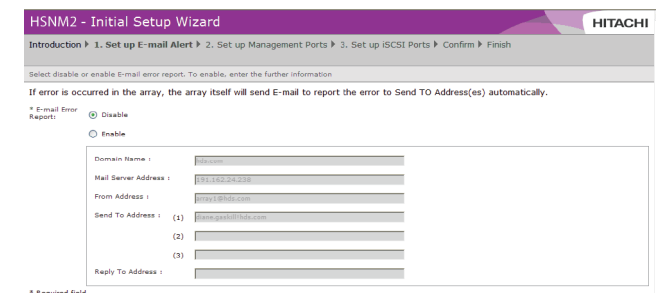


4 Configure the Array

After your array is discovered, run the Initial Setup wizard to configure the array.

- A. In the Arrays window, click the array that was discovered.
- B. Under Common Array Tasks, click **Initial Setup** followed by **Next**.
- C. To receive email notifications:
- Click **Enable**.
 - **Domain Name**. Domain appended to addresses that do not contain one.

- **Mail Server Address**. Email address or IP address that identifies your array as the source of the email.
- **From Address**. Each email sent by your array will be identified as being sent from this address.
- **Send To Address**. Up to 3 individual email addresses or distribution lists where notifications will be sent.
- **Reply To Address**. Email address where replies can be sent.



- D. Set the IP address, subnet mask, and default gateway for each management port either automatically or manually:

- Automatically - click **Use DHCP**. This setting requires a DHCP server to issue unique IP addresses.
- Manually - click **Set Manually**, enter the settings and write them below (you will refer to them later).

Controller 0: _____.

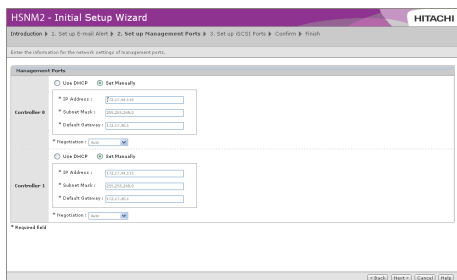
Controller 1: _____.

IP Address. Internet Protocol address that client PCs use to access your array management port.

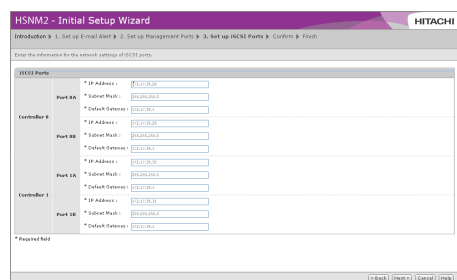
Subnet mask. Subnet mask that client PCs use to access your array management port.

Default gateway. Default gateway that client PCs use to access your array management port.

- E. Select the negotiation to be used and click **Next**.



- F. Enter the IP addresses for the data ports on each array controller. Write them down for reference (you will need these addresses in the next step).



- G. Click through the next screens to verify your selections. Click **Confirm** to commit your selections.
- H. When installation is successful, click **Finish**.

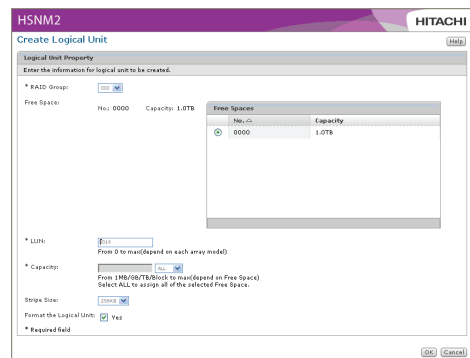
5 Change Controller IP Addresses

- A. In the Explorer pane, click **Resources**.
- B. Check the array name and click **Edit Array**.
- C. In **IP Address OR Host Name** of controller, enter the same controller IP addresses entered in step 4F.
- D. Click **OK**, and then click **Close**.

6 Create Logical Units

- A. In the Arrays area, click the name of the array.

- B. In the Common Array Tasks area, click **Create Logical Unit** and complete the fields.



- **RAID Group.** Make this Logical Unit a member of a RAID group, if desired.
 - **Free Space.** Shows LUs and their available capacity.
 - **LUN.** Enter a logical unit number.
 - **Capacity.** Enter the amount of free space to be allocated to the LUN.
 - **Stripe Size.** Specify a stripe size to optimize I/O performance. For example, you may want to achieve a particular bandwidth or adjust the stripe size for an application that uses a fixed transfer size.
 - **Format the Logical Unit.** Check if the LU must be formatted for your operating system.
- C. Initially, each data port maps to one iSCSI target. To permit access to more than one target via a data port, enable iSCSI target security on the data port.
- Select **Explorer > Arrays**. Then, in the Arrays area, click an array and select **Groups > iSCSI Targets**.
 - Go to the **iSCSI Target Security** tab, select a port, click **Change iSCSI Target Security**, and see step 6E.
- D. Map HLUNs to LUNs, so the host can see the storage:

- In the Arrays area, select **Groups > iSCSI Targets**.
 - In the **iSCSI Targets** tab, click an iSCSI target and see step 6E.
- E. To complete steps 6C and 6D, refer to the topic **Managing Storage > Managing Groups > Managing iSCSI Targets** in the Storage Navigator Modular 2 online help and the *Hitachi Simple Modular Storage 100 LUN Manager User's Guide* (MK-97DF8040).

7 Install iSCSI Initiator Software

- A. Install iSCSI initiator software for your operating system. For example, for Microsoft Windows XP and Windows Server 2003, download Microsoft's iSCSI initiator free of charge: <http://www.microsoft.com/downloads> For Microsoft Windows Vista or Windows Server 2008, Solaris, or VMware, use the iSCSI initiator software included with these operating systems.
- B. Follow the instructions for your iSCSI initiator to install it on your host and tell your host where to find volumes on your array. You may also need to add the target to the iSCSI service binding list, initialize new drives, create partitions, and format new volumes. Configure your iSCSI initiator

8 Where To Go From Here

Perform the following configuration tasks based on your storage and environmental requirements. For details, see the Storage Navigator Modular 2 online help.

- Create, format, delete, and filter logical units
- Create, edit, initialize, delete, and filter targets
- Back up volumes to prevent data loss
- Change nicknames for iSCSI hosts
- Create, edit, and delete CHAP users
- Perform local replication tasks (create, edit, split, resync, restore, and delete pairs)
- Enable license keys for any Hitachi storage features that require them