

## **Adding an Infranet Controller Cluster with Imported Cluster Members**

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To add an Infranet Controller cluster to NSM, first add the cluster object, and then add its members. You add cluster members one at a time, in a similar manner to adding standalone devices.

Add and import an Infranet Controller cluster in NSM by following these procedures:

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4. Configuring and Enabling the DMI Agent on the Cluster on page 3
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### ***Installing and Configuring the Cluster***

You must install and configure the cluster to have logon credentials for an NSM administrator before you can add the cluster to NSM.

### ***Adding the Cluster in NSM***

Before you can add an Infranet Controller cluster to NSM, you must first add the cluster object, and then add its members.

To add a new cluster to NSM:

1. From the left pane of the NSM UI, click **Configure**.
2. Expand **Device Manager** and select **Devices**. The Devices workspace appears on the right side of the screen.
3. Click the **Device Tree** tab, click the **New** button, and select **Cluster**. The New - Cluster dialog box appears.
4. Enter the cluster name and select the required color, OS name (IC), platform, and managed OS version from the drop-down lists.
5. Click **OK**. The new cluster appears in the Device Manager.

### ***Adding the Cluster Members in NSM***

You add cluster members one at a time in a similar manner to adding standalone devices.

#### **Adding Cluster Members through Not Reachable Workflow**

To add a cluster member through the non-reachable workflow:

1. From the left pane of the NSM UI, click **Configure**.
2. Expand **Device Manager** and select **Devices**. The Devices workspace appears on the right side of the screen.

3. Click the **Device Tree** tab, and select the cluster to which you want to add the members.
4. Click the **New** button and select **Cluster Member**. The New-Cluster Member dialog box appears.
5. Enter the cluster member name, select **Device Is Not Reachable** and click **Next**.
6. From the Choose Device Server Connections Parameter area, select:
  - **Use Default Device Server IP Address and Port**—Connects the device to the NSM device server IP address and port.
  - **Use Device Server Through MIP**—Connects the NSM device server through a mapped IP address and port.
7. Click **Next**, and a unique external ID gets generated automatically. This ID represents the device within the management system.
8. Enter a admin user name for the device admin.
9. Set the admin user password and the first connection one-time password:
  - a. Select the corresponding **Set Password** box and enter a new password.
  - b. Confirm the new password and click **OK**.

**NOTE:**

- Make a note of the unique external ID. The device administrator will need it to configure connectivity with NSM. The wizard automatically enters this value for the device. This ID number represents the device within the management system.
- Specify the administrator username and password for the SSH connection. This name and password must match the name and password already configured on the device.
- Specify the first connection one time password (OTP) that authenticates the device. Make a note of this password. The device administrator will need it to configure the connectivity with NSM.

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10. Click **Finish** to add the cluster member to the NSM GUI. The cluster member as a child of the Infranet Controller cluster in the Devices workspace.

**Adding Cluster Members through Reachable Workflow**

To add a cluster member:

1. From the left pane of the NSM UI, click **Configure**.
2. Expand **Device Manager** and select **Devices**. The Devices workspace appears on the right side of the screen.
3. Click the **Device Tree** tab, and select the cluster to which you want to add the members.
4. Click the **New** button and select **Cluster Member**. The New-Cluster Member dialog box appears.

5. Enter the cluster member name, select **Device Is Reachable** and click **Next**.
6. Specify the device connection settings:
  - **IP Address**—IP address of the Infranet Controller.
  - **Admin User Name**—Administrator user name created for the Infranet Controller.
  - **Password**—Administrator password created for the Infranet Controller.



**NOTE:** The ssh port number for cluster member is 22 by default and the port number cannot be modified.

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7. Click **Next**, The Infranet Controller device is detected and the Infranet Controller details are displayed.
8. Enter a new name for the Infranet Controller device in **Device Name** to change the host name of the Infranet Controller device. An error message is displayed if the device name is not unique.
9. Click **Finish** to add the cluster member to the NSM GUI. The cluster member as a child of the Infranet Controller cluster in the Devices workspace.

## **Configuring and Enabling the DMI Agent on the Cluster**

On each cluster member device, configure and activate the DMI agent and establish an SSH session with NSM.

### **Importing Cluster Configuration**

After adding the cluster members, you must import the cluster configurations. You do this only once and for the entire cluster because the configuration is identical for all cluster members.

To import the cluster configuration:

1. From the left pane of the NSM UI, click **Configure**.
2. Expand **Device Manager** and select **Devices**. The Devices workspace appears on the right side of the screen.
3. Click the **Device Tree** tab. Right-click the cluster to which you want to import the configurations, and select **Import Device**.

NSM starts to import the configuration and a job window reports the progress of the job. When the job finishes, the configuration status for each cluster member in the Device List tab changes from Import Needed to Managed.

After importing, the configuration appears at the cluster level in NSM. To edit the configuration, open the cluster icon, not the individual cluster members.

- Related Topics**
- Importing an Infranet Controller Device Through Not Reachable Workflow
  - Importing an Infranet Controller Through a Reachable Workflow
  - Creating and Applying an Infranet Controller Template
  - Verifying Imported Device Configurations
  - Infranet Controllers Clusters in NSM Overview

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