

About Updating M-series and MX-series Devices

When you update a managed device, you modify the running device configuration (the configuration currently installed on the physical device) with the modeled device configuration (the configuration currently modeled in Network and Security Manager (NSM)).

You can update a single device, multiple devices, or device groups simultaneously. For example, if you have created a device group that includes only M-series devices, you can update the entire device group in a single update procedure. During the update, NSM displays the progress of the update on each individual device so you can see exactly what is happening. Simultaneous updating also reduces downtime to unaffected devices and areas of your network.

Updating a device is a three-step process.

1. Ensure that you have configured the device correctly, created and assigned a policy to the device, and established a connection between the device and the management server.
2. From the Device Manager launchpad, select **Update Device**. The launchpad displays the Update Device(s) dialog box.

All connected and managed devices appear in the device list. Modeled devices and devices awaiting import for the first time do not appear.

3. Select the devices or device groups you want to update and click **Apply Changes**. NSM updates the selected devices or device groups with the modeled configuration.

NSM uses centralized control and tracking to indicate when you need to update a device, and to follow the progress of the device configuration you are updating. Before updating your managed devices, you can use other NSM modules and tools to identify devices that need to be updated, validate their modeled configurations, and preview how those devices accept the new configuration. After updating, you can use the same tools to verify a successful update. These tools include:

- **Audit Log Viewer**—This NSM module records changes made to a device configuration. The audit log entry also identifies the administrator who performed the change, shows when the change was updated on the device, and provides a history of change details.
- **Configuration Summaries**—These tools provide a preview of the modeled configuration, enabling you to compare it with the configuration that is running on the device. Use configuration summaries to ensure the modeled configuration is consistent with what you want to update on the device.
- **Job Manager**—This NSM module tracks the status of running and completed update processes. The Job Manager displays details of the update process in a dedicated information window and includes the update's success or failure and errors involved in a failed update.

For more information about updating devices, including knowing when to update, using preview tools, performing updates, tracking updates and rebooting devices, see “Updating Devices” in the *Network and Security Manager Administration Guide*.

- Related Topics**
- How the Update Process Works
 - Job Manager
 - Tracking Updated Devices Using Job Manager
 - Reviewing Job Information Displayed in Job Manager
 - Device States Displayed in Job Manager During Update
 - Understanding Updating Errors Displayed in the Job Manager