



CHAPTER 11

Using Active Discovery

With Active Discovery, you can schedule Cisco netManager to scan your network for new monitors (Active Monitors and Performance Monitors) and devices on a regular basis. Newly discovered items are added to the Active Discovery Results report, and Cisco netManager notifies you that a new device was found, or a new monitor was found on an existing device. You can then review the report and select the items you want to add to your device list.

Active Discovery works with two types of device discovery:

- **SNMP SmartScan.** Cisco netManager discovers devices by reading SNMP information on your network. This scan type uses an SNMP enabled router to identify the devices in your network and also identifies subnetworks within your network.
- **IP Range Scan.** Cisco netManager scans a range of IP addresses and finds the devices that respond to a message sent via the Internet Control Message Protocol (ICMP).

If the scan finds results, an email is generated and sent to the address you provide during Active Discovery configuration. The email contains links to the reports that are populated by the scan:

- Active Discovery Log report shows the success or failure of the Active Discovery task, and any devices and/or Monitors found during that scan.
- Active Discovery Results report shows all new items found in the latest scan, or all unprocessed items from previous scans. Through this report, you can add devices to the device list and new monitors (Active Monitors and Performance Monitors) to the device monitors.

If an email notification is not specified (in the wizard), these reports are also available in the System report list, in the Report view.

Configuring Active Discovery

To configure an active discovery task:

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- Step 1** From the Cisco netManager console main menu, select **Configure > Active Discovery**. The Active Discovery dialog opens.
- Click **New** to add a new task, or select an existing task and click **Edit**.
- Step 2** If you are adding a new task, follow the wizard to create the task.
- or
- If you are editing a task, you must click the sections you want to make changes to.

- Step 3** After the wizard is complete or your change edits are complete, the task is processed according to the schedule you set for the task.
For more information on how to test your new task, see [“Testing Active Discovery Tasks” section on page 11-3](#).

Scanning for new services on existing devices

If you want to scan the devices currently in your databases for new services, make sure that you select the **Scan for new services on existing devices** option.
Clear the **Scan for new services on existing devices** option to keep your existing devices from being scanned.

Example: Configuring Active Discovery

In this example, we set up an Active Discovery task to scan our Atlanta network every morning and send an email update to the network administrator.
To configure an Active Discovery task:

- Step 1** From the Cisco netManager console, select **Configure > Active Discovery**. The Active Discovery dialog opens.
- Step 2** Click **New** to add a new task.

We completed the Add Active Discovery Task wizard example as follows:

Wizard screen	Settings
General	Task Name: Atlanta Network Sweep Description: Daily scan of Atl net Scan for new services on existing devices (selected)
Schedule	Enable Schedule (selected) Schedule Time: 8:00 AM Days: All days selected
Notification	Enable Email Notification (selected) Email address: netadmin@cisco.com Outgoing mail (SMTP) server: 192.2.200.10 Port: 25 From: anyone@cisco.com
Scan Type	SNMP SmartScan (selected)

SNMP SmartScan Settings	SNMP enabled router: 192.168.2.1 SNMP read communities: public Windows credentials: none
Active/Performance Monitors	Select Active Monitors to be used in the scan process: FTP, HTTP SMTP, Ping Select Performance Monitors to be used in the scan process: CPU Utilization, Disk Utilization, Interface Utilization



Note If you want to scan the devices currently in your databases for new services, make sure you select the **Scan for new services on existing devices** option. Clear the option to keep your existing devices from being scanned.

- Step 3** Click **OK** to complete the wizard. The new task is displayed in the Active Discovery dialog.
- Step 4** From the email, click the Active Discovery Results link to view the report.
- Step 5** Select the Discovery results (devices, services, or monitors found) you want to add to your device group, then click **Add**.

Enabling and Disabling an Active Discovery Task

To stop an active discovery task from being executed:

- Step 1** From the Cisco netManager console main menu, select **Configure > Active Discovery**. The Active Discovery dialog opens.
- Step 2** Select the task you want to stop, then click **Edit**.
- Step 3** Select the Schedule section.
- Step 4** Clear the **Enable Schedule** option to stop the task from being processed according to the schedule.
- Step 5** Click **OK** to return to the Active Discovery dialog.

Testing Active Discovery Tasks

To test an active discovery task:

- Step 1** From the Cisco netManager console main menu, select **Configure > Active Discovery**. The Active Discovery dialog opens.
- Step 2** Select the task you want to test and click **Test**.
- Step 3** Cisco netManager scans the network based on the settings for that Task. After the task is complete, the Active Discovery Results dialog opens.
- Step 4** Review the dialog, then click **OK** to return to the Active Discovery dialog.

**Note**

The results of the Active Discovery test scan are not stored in the database and cannot be processed.
