



Discovering Devices and Hosts

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About Discovery

The Discovery function scans the devices and hosts in your network and populates the Cisco APIC-EM database with the information that it retrieves. To do this, you need to provide the controller with information about your network so that the Discovery function can reach as many of the devices in your network as possible and gather as much information as it can.

The Discovery function uses the following protocols and methods to retrieve network information, such as hosts IP addresses, MAC addresses, and network attachment points:

- Cisco Discovery Protocol (CDP)
- Community-based Simple Network Management Protocol Version 2 (SNMPv2c)
- Simple Network Management Protocol version 3 (SNMPv3)
- Link Layer Discovery Protocol (LLDP)
- IP Device Tracking (IPDT) (For Discovery to collect host information, you must manually enable IPDT on devices. After IPDT is enabled, Discovery collects host information on a best-effort basis, because in addition to IPDT, Discovery relies on ARP entries for host information.)
- LLDP Media Endpoint Discovery (LLDP-MED) (IP phones and some servers are discovered using LLDP-MED).

For information about the required protocol configuration for your devices, see [Required Device Configuration](#).

Understanding Device and Host Discovery

The process of finding network devices and hosts is known as discovery. You populate the Cisco APIC-EM database by discovering the devices and hosts in your network. To discover network devices, you need to provide the Cisco APIC-EM with discovery credentials for the devices in your network in the form of SNMP settings and CLI credentials. When you perform a discovery, the Cisco APIC-EM scans the network and attempts to log in to newly found devices by presenting these credentials.

The Cisco APIC-EM uses the CDP, LLDP and wireless controller databases on the network devices to discover hosts, such as wireless laptops, handheld devices, printers, and IP phones. To discover wired laptops, the Cisco APIC-EM uses the IP Device Tracking database, which needs to be enabled on some switches. (This feature is enabled by default on some switches.)

Wireless LAN Controllers (WLCs) have additional setup requirements in order to be discovered. For more information, see [Wireless LAN Controller Configuration](#).

Discovery Credentials Rules

Discovery credentials (global and discovery request-specific) operate under rules as described in the bullet list and table below.

Discovery request-specific credentials rules:

- These credentials can be provided when creating a new network discovery, but only a single set of these credentials is allowed per network discovery.
- These credentials take precedence over any configured global credentials.
- If the discovery request-specific credentials cause an authentication failure, then discovery is attempted a second time with the configured global credentials (if explicitly selected in the **Discovery** window). If discovery fails with the global credentials then the device discovery status will result in an authentication failure.
- If the discovery request-specific credentials (both CLI and SNMP) are not provided as part of network discovery, then the global credentials (both CLI and SNMP) are used to authenticate devices.

Global credentials rules:

Table 1: Global Credentials Rules

Global Credentials	Discovery Request-Specific Credentials	Result
Not configured	Not configured	The default SNMP read community string (public) is used for the discovery scan, but the device discovery will fail since both CLI and SNMP credentials must be configured for a successful device discovery.

Global Credentials	Discovery Request-Specific Credentials	Result
Not configured	Configured	The specified discovery request-specific credentials will be used for discovery.
Configured	Not configured	All the configured global credentials will be used.
Configured but not selected	Configured	Only the request-specific credentials will be used.
Configured and selected	Not configured	Only selected global credential will be used.
Configured and selected	Configured	Both specified credentials (global and discovery request-specific) will be used for discovery.
Configured, but wrong global credential IDs are mentioned in the discovery POST REST API.	Correct request-specific credentials configured	Discovery fails. Note This scenario is only possible by API not from the controller GUI.
Configured, but wrong global credential IDs are mentioned in the discovery POST REST API.	Not configured	Discovery fails. Note This scenario is only possible by API not from the controller GUI.

Discovery Credentials Caveats

The following are caveats for the Cisco APIC-EM discovery credentials:

- If a device credential changes in a network device or devices after Cisco APIC-EM discovery is completed for that device or devices, any subsequent polling cycles for that device or devices will fail. To correct this situation, an administrator has following options:
 - Start a new discovery scan with changed discovery request-specific credentials that matches the new device credential.
 - Update the global credentials with the new device credential. Execute a new discovery scan with the new global credentials.
- If the ongoing discovery fails due to a device authentication failure (for example, the provided discovery credential is not valid for the devices discovered by current discovery), then the administrator has following options:
 - Stop or delete the current discovery. Create one or more new network discovery jobs (either a **CDP** or **Range** discovery type) with a discovery request-specific credential that matches the device credential.

- Create a new global credential or modify one of the global credentials, and execute a new discovery selecting the correct global credential.
- Deleting a global credential does not affect already discovered devices. These already discovered devices will not report an authentication failure.
- The Cisco APIC-EM provides a REST API which allows the retrieval of the list of managed network devices in the Cisco APIC-EM inventory, including certain administrative credentials (SNMP community strings and CLI usernames). The purpose of this API is to allow an external application to synchronize its own managed device inventory with the devices that have been discovered by the Cisco APIC-EM. For example, for Cisco IWAN scenarios, Prime Infrastructure makes use of this API in order to populate its inventory with the IWAN devices contained in the Cisco APIC-EM inventory in order to provide monitoring of the IWAN solution. Any user account with a `ROLE_ADMIN` has access to this API.

**Note**

Only the username is provided in clear text. SNMP community strings and passwords are not provided in cleartext for security reasons.

Performing Discovery

To access the Discovery function, from the **Navigation** pane, click **Discovery**. The **Discovery** window opens.

Figure 1: Discovery Window

Name	Description
Discoveries pane	<p>Lists the names of the discovery scans that have been created, along with the method and IP addresses used for discovery. The list is divided between active and inactive discoveries.</p> <p>A successful scan (one with discovered and authenticated devices) has the number of discovered devices indicated in a box to the right of the discovery name. An unsuccessful scan shows no box or number of devices discovered.</p> <p>From the Discoveries pane, clicking on a discovery name displays the information in the Discovery Details and Device Details panes.</p>
Discovery Details pane	<p>Provides detailed information about the discovery parameters that were used to perform the discovery, the state of the discovery, and the number of devices that were discovered. The buttons on this pane allow you to Start, Stop, and Delete discoveries.</p>
In-tool guide	Provides guidance about how to configure discovery.

Performing Discovery Using CDP

You can discover devices and hosts using CDP.



Note

While a discovery job is in progress, you can perform any of the following actions:

- Create a new discovery job by clicking **Add New** from the **Discoveries** pane.
- Copy a discovery job by clicking **Copy** from the **Discoveries** pane.
- Stop an active discovery job by selecting the discovery name in the **Discoveries** pane and clicking **Stop** in the **Discovery Details** pane.
- Start an inactive discovery job by selecting the discovery name in the **Discoveries** pane and clicking **Start** in the **Discovery Details** pane.
- Delete a discovery job by selecting the discovery name in the **Discoveries** pane and clicking **Delete** in the **Discovery Details** pane.

The screenshot shows the Cisco APIC - Enterprise Module Discovery configuration page. The left sidebar contains a 'Discoveries' section with an 'Add New' button and a list of existing discoveries (Discovery 1, Discovery 2, Discovery 3). The main form area is titled 'Add a New/Copy Discovery' and contains the following sections:

- Discovery Name:** A text field for giving the discovery a unique name.
- IP Ranges:** A section for specifying the IP ranges of the devices to scan. It includes a 'Discovery Type' dropdown set to 'CDP' and an 'IP Address' field.
- Subnet Filter:** A section for filtering by subnet, with a text field for 'Enter Subnet Filter settings'.
- CDP Level:** A section for specifying the CDP Level from 1 to 16, with a text field for 'Enter CDP Level settings'.
- SNMP:** A section for trying different SNMP settings, with a dropdown for 'Saved SNMP Credentials' and a text field for 'Enter job-specific SNMP settings'.
- CLI Credentials:** A section for specifying CLI credentials, with a dropdown for 'Saved CLI Credentials' and a text field for 'Enter job-specific CLI Credentials settings'.
- Advanced:** A section for specifying advanced settings, with a text field for 'show Advanced settings'.

The right-hand pane, titled 'Add a New/Copy Discovery', provides instructions and details for the discovery process. It includes a 'DISCOVERY TYPE' section with two types of scans: 'Cisco Discovery Protocol (CDP)' and 'Range (range of IP addresses)'. It also includes an 'SNMP' section with details about SNMPv2c and SNMPv3.

Before You Begin

You must have administrator (ROLE_ADMIN) permissions to perform this procedure.

CDP must be enabled on the devices in order for them to be discovered.

Your devices must have the required device configurations, as described in [Required Device Configuration](#).

Procedure

- Step 1** From the **Navigation** pane, click **Discovery**.
The **Discovery** window appears.
- Step 2** If the **Discovery Details** pane does not appear, click **Add New**.
- Step 3** In the **Discovery Name** field, enter a unique name for this discovery job.
- Step 4** In the **IP Ranges** area, do the following:
 - a) From the **Discovery Type** field, choose **CDP**.
 - b) In the **IP Address** field, enter a seed IP address for the Cisco APIC-EM to use to start the discovery scan.
- Step 5** (Optional) In the **Subnet Filter** field, enter the IP address or subnet and click **Add**.
You can enter the address as an individual IP address (x.x.x.x) or as a classless inter-domain routing (CIDR) address (x.x.x.x/y) where x.x.x.x refers to the IP address and y refers to the subnet mask. The subnet mask can be a value from 0 to 32.

Repeat this step to exclude multiple subnets from the discovery job.
- Step 6** (Optional) In the **CDP Level** field, enter the number of hops from the seed device that you want to scan.

Valid values are from 1 to 16. The default value is 16. For example, CDP level 3 means that CDP will scan up to three hops from the seed device.

Step 7 In the **SNMP** area, choose one of the previously configured SNMP settings from the **Saved SNMP** drop-down list. If the settings that you need are not available in the list, you can configure SNMP settings for the current discovery.

Use the following guidelines to help you enter the correct values in the fields:

- You can configure up to five SNMP credential sets per type (SNMPv2c and SNMPv3) in **Settings** and an additional SNMP credential set per type (SNMPv2c and SNMPv3) as part of the discovery scan in **Discovery**. If you try to configure more than that, Cisco APIC-EM displays an error message.
- Discovery requires the correct SNMP Read Only (RO) community string. If an SNMP RO community string is not provided, as a *best effort*, discovery uses the default SNMP RO community string, "public."

Table 2: SNMPv3

Field	Description
Username	Username associated with the SNMPv3 settings.
Mode	Specifies the security level that an SNMP message requires and whether the message needs to be authenticated. Choose one of the following modes: <ul style="list-style-type: none"> • noAuthNoPriv—Security level that does not provide authentication or encryption • AuthNoPriv—Security level that provides authentication but does not provide encryption • AuthPriv—Security level that provides both authentication and encryption
Auth Type	Specifies the authentication type to be used. <ul style="list-style-type: none"> • SHA—Authentication based on the Hash-Based Message Authentication Code (HMAC), Secure Hash algorithm (SHA) algorithm • MD5—Authentication based on the Hash-Based Message Authentication Code (HMAC), Message Digest 5 (MD5) algorithm • None—No authentication
Auth Password	SNMPv3 password used for gaining access to information from devices that use SNMPv3.
Privacy Type	Specifies the privacy type: <ul style="list-style-type: none"> • DES—Data Encryption Standard (DES) 56-bit encryption in addition to authentication based on the Cipher Block Chaining (CBC) DES (DES-56) standard. • AES128—Cipher Block Chaining (CBC) mode AES for encryption. • None—No privacy

Field	Description
Privacy Password	SNMPv3 privacy password is used to generate the secret key used for encryption of messages exchanged with devices that support DES or AES128 encryption.

Table 3: SNMPv2c

Field	Description
Read Community	SNMP read-only (RO) or read/write (RW) community string. The SNMP community string that you configure in this field is used only for this specific discovery. Note To enable discovery on the network devices, configure the network device's IP host address as the client address.
Write Community	SNMP read-only (RO) or read/write (RW) community string.

Table 4: SNMP Properties

Field	Description
Connection Timeout (in Seconds)	Number of seconds the controller waits when trying to establish a connection with a device before timing out. Valid values are from 5 to 120 seconds in intervals of 5 seconds.
Retry Count	Number of attempts to connect to the device. Valid values are from 0 to 4 attempts.

Step 8 In the **CLI Credentials** area, enter the username, password, and enable password in the fields for the devices that you want the Cisco APIC-EM to discover.
Both the password and enable password are encrypted for security reasons and cannot be seen when viewing the configuration.

Discovery credentials are preexisting device credentials used by the Cisco APIC-EM to authenticate and discover the Cisco devices in your network. For host discovery, credentials are not required as hosts are discovered through the devices.

Note Cisco APIC-EM uses both the request-specific discovery credentials and the global discovery credentials (set in the **Settings > Discovery Credentials** window) to help you discover all of the Cisco devices within your network.

Step 9 (Optional) In the **Advanced** area, configure the protocols that the Cisco APIC-EM uses to connect to devices. Valid protocols are **SSH** (default) and **Telnet**.

To remove a protocol from the scan, click the protocol name. The checkmark next to the protocol disappears and the protocol fades from the display.

To customize the order that protocols are used to connect to devices, drag and drop a selected protocol to the desired location in the list.

Step 10 Click **Start Discovery**.

The **Discoveries** window displays the results of your scan.

The **Discovery Details** pane shows the status (active or inactive) and the discovery configuration. The **Discovery Devices** pane displays the host names, IP addresses, and status of the discovered devices for the selected discovery.

Performing Discovery Using an IP Address Range

You can discover devices using an IP address range.

**Note**

While a discovery job is in progress, you can perform any of the following actions:

- Create a new discovery job by clicking **Add New** from the **Discoveries** pane.
 - Copy a discovery job by clicking **Copy** from the **Discoveries** pane.
 - Stop an active discovery job by selecting the discovery name in the **Discoveries** pane and clicking **Stop** in the **Discovery Details** pane.
 - Start an inactive discovery job by selecting the discovery name in the **Discoveries** pane and clicking **Start** in the **Discovery Details** pane.
 - Delete a discovery job by selecting the discovery name in the **Discoveries** pane and clicking **Delete** in the **Discovery Details** pane.
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The screenshot shows the Cisco APIC - Enterprise Module Discovery page. The left pane lists existing discoveries: Discovery1 (cdp 40.0.1.2), Discovery2 (cdp 40.0.1.14), and Discovery3 (cdp 40.0.7.18). The main area is for adding a new discovery. It includes a 'Discovery Name' field, an 'IP Ranges' section with a 'Discovery Type' dropdown set to 'Range' and two IP address input fields, an 'Add' button, and a 'Start Discovery' button at the bottom. Below the IP ranges are sections for 'SNMP' (with a 'Saved SNMP Credentials' dropdown), 'CLI Credentials' (with a 'Saved CLI Credentials' dropdown), and 'Advanced' settings. A right-hand sidebar titled 'Add a New/Copy Discovery' provides detailed instructions for each section.

Add a New/Copy Discovery

Use Discovery to scan and find devices in your network and place them in your inventory.

DISCOVERY TYPE

Choose from two types of scans:

- Cisco Discovery Protocol (CDP)**: Enter the IP address of a single device (called a seed device) to use as a starting point for the scan. From this device, CDP scans other directly connected Cisco devices. With CDP, you can exclude specific subnets from the scan in the **Subnet Filter** field. You can also specify the **CDP Level**, which indicates the number of hops (from 1 to 16) from the seed device that you want to scan.
- Range (range of IP addresses)**: Enter a beginning and ending IP address to use as the scan boundary. APIC-EM scans devices sequentially beginning with the first IP address and stopping with the ending IP address.

SNMP

Choose the SNMP settings that you have configured and saved in **Settings**, or enter new settings for this discovery scan:

- SNMPv2c** uses a community-based form of security. The community of SNMP managers that are able to access the agent MIB is defined by an IP address access control list (ACL) and password.
- SNMPv3** uses authentication and encryption to ensure SNMP data packet integrity. It provides AuthPriv (authentication based on the HMAC-MD5 or HMAC-SHA algorithms), DES 56-bit encryption in addition to authentication based on the CBC-DES (DES-56) and AES-128 standards, AuthNoPriv (authentication based on the HMAC-MD5 or HMAC-SHA algorithms), and NoAuthNoPriv (uses a username match for authentication).

CLI CREDENTIALS

Before You Begin

You must have administrator (ROLE_ADMIN) permissions to perform this procedure.

Your devices must have the required device configurations, as described in [Required Device Configuration](#).

Procedure

- Step 1** From the **Navigation** pane, click **Discovery**.
The **Discovery** window appears.
- Step 2** If the **Discovery Details** pane does not appear, click **Add New**.
- Step 3** In the **Discovery Name** field, enter a unique name for this discovery.
- Step 4** In the **IP Ranges** area, do the following:
 - a) From the **Discovery Type** field, choose **Range** for the discovery scan type.
 - b) In the **IP Address** field, enter the beginning and ending IP addresses (IP range) for the devices being discovered and click **Add**.
You can enter a single IP address range or multiple IP addresses for the discovery scan.
 - c) Repeat Step b to enter additional IP address ranges.
- Step 5** In the **SNMP** area, choose one of the previously configured SNMP settings from the **Saved SNMP** drop-down list. If the settings that you need are not available in the list, you can configure SNMP settings for the current discovery.
Use the following guidelines to help you enter the correct values in the fields:

- You can configure up to five SNMP credential sets per type (SNMPv2c and SNMPv3) in **Settings** and an additional SNMP credentials set per type (SNMPv2c and SNMPv3) as part of the discovery scan in **Discovery**. If you try to configure more than that, Cisco APIC-EM displays an error message.
- Discovery requires the correct SNMP Read Only (RO) community string. If an SNMP RO community string is not provided, as a *best effort*, discovery uses the default SNMP RO community string, "public."

Table 5: SNMPv3

Field	Description
Username	Username associated with the SNMPv3 settings.
Mode	Specifies the security level that an SNMP message requires and whether the message needs to be authenticated. Choose one of the following modes: <ul style="list-style-type: none"> • noAuthNoPriv—Security level that does not provide authentication or encryption • AuthNoPriv—Security level that provides authentication but does not provide encryption • AuthPriv—Security level that provides both authentication and encryption
Auth Type	Specifies the authentication type to be used. <ul style="list-style-type: none"> • SHA—Authentication based on the Hash-Based Message Authentication Code (HMAC), Secure Hash algorithm (SHA) algorithm • MD5—Authentication based on the Hash-Based Message Authentication Code (HMAC), Message Digest 5 (MD5) algorithm • None—No authentication
Auth Password	SNMPv3 password used for gaining access to information from devices that use SNMPv3.
Privacy Type	Specifies the privacy type: <ul style="list-style-type: none"> • DES—Data Encryption Standard (DES) 56-bit encryption in addition to authentication based on the Cipher Block Chaining (CBC) DES (DES-56) standard. • AES128—Cipher Block Chaining (CBC) mode AES for encryption. • None—No privacy
Privacy Password	SNMPv3 privacy password is used to generate the secret key used for encryption of messages exchanged with devices that support DES or AES128 encryption.

Table 6: SNMPv2c

Field	Description
Read Community	SNMP read-only (RO) or read/write (RW) community string. The SNMP community string that you configure in this field is used only for this specific discovery. Note To enable discovery on the network devices, configure the network device's IP host address as the client address.
Write Community	SNMP read-only (RO) or read/write (RW) community string.

Table 7: SNMP Properties

Field	Description
Connection Timeout (in Seconds)	Number of seconds the controller waits when trying to establish a connection with a device before timing out. Valid values are from 5 to 120 seconds in intervals of 5 seconds.
Retry Count	Number of attempts to connect to the device. Valid values are from 0 to 4 attempts.

Step 6 In the **CLI Credentials** area, enter the username, password, and enable password in the fields for the devices that you want the Cisco APIC-EM to discover.
Both the password and enable password are encrypted for security reasons and cannot be seen when viewing the configuration.

Discovery credentials are preexisting device credentials used by the Cisco APIC-EM to authenticate and discover the Cisco devices in your network. For host discovery, credentials are not required as hosts are discovered through the devices.

Note Although you are limited to only one set of discovery credentials per discovery scan, you can run several different discovery scans with different credentials to authenticate and discover all of the Cisco devices within your network.

Step 7 (Optional) In the **Advanced** area, configure the protocols that the Cisco APIC-EM uses to connect to devices. Valid protocols are **SSH** (default) and **Telnet**.

To remove a protocol from the scan, click the protocol name. The checkmark next to the protocol disappears and the protocol fades from the display.

To customize the order that protocols are used to connect to devices, drag and drop a selected protocol to the desired location in the list.

Step 8 Click **Start Discovery**.
The **Discoveries** window displays the results of your scan.

The **Discovery Details** pane shows the status (active or inactive) and the discovery configuration. The **Discovery Devices** pane displays the host names, IP addresses, and status of the discovered devices for the selected discovery.

Copying a Discovery Job

You can copy a discovery job and retain all of the information defined for the job, except the SNMP and CLI credentials. The SNMP and CLI credentials are included in the copy only if you used global credentials (saved in **Settings**) for the original job. If you defined specific (one-time only) SNMP and CLI credentials for the original job, the credentials are not copied.

Before You Begin

You have created at least one discovery scan.

Procedure

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- Step 1** From the **Navigation** pane, click **Discovery**.
 - Step 2** From the **Discoveries** pane, select the discovery job.
 - Step 3** From the **Discovery Details** pane, click **Copy**.
The discovery job is copied, and the new job is named *Copy of Discovery_Job*.
 - Step 4** (Optional) Change the name of the discovery job.
 - Step 5** Define or update the SNMP and CLI credentials and any other parameters for the discovery job.
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Stopping and Starting a Discovery Job

You can stop a discovery job that is in progress, and restart it.

Before You Begin

You must have administrator (ROLE_ADMIN) permissions to perform this procedure.

Procedure

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- Step 1** From the **Navigation** pane, click **Discovery**.
 - Step 2** To stop an active discovery job, do the following:
 - a) From the **Discoveries** pane, select the discovery job.
 - b) From the **Discovery Details** pane, click **Stop**.
 - c) Click **OK** to confirm that you want to stop the discovery job.
 - Step 3** To restart an inactive discovery, do the following:
 - a) From the **Discoveries** pane, select the discovery job.
 - b) From the **Discovery Details** pane, click **Start**.
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Deleting a Discovery Job

You can delete a discovery job whether it is active or inactive.

Before You Begin

You must have administrator (ROLE_ADMIN) permissions to perform this procedure.

Procedure

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- Step 1** From the **Navigation** pane, click **Discovery**.
 - Step 2** From the **Discoveries** pane, select the discovery job that you want to delete.
 - Step 3** From the **Discovery Details** pane, click **Delete**.
 - Step 4** Click **OK** to confirm that you want to delete the discovery.
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Understanding the Discovery Results

The Discovery window provides information about the selected scan. To access the **Discovery** window, from the **Navigation** pane, click **Discovery**. The **Discovery Results** window has three main panes.

**Note**

You must have created at least one discovery scan for the **Discovery Results** window to display.

Figure 2: Discovery Results Window

Host Name	IP	Status
SDN-CAMPUS-AS R9K.cisco.com	40.0.1.2	Success
SDN-BRANCH-C6 K.cisco.com	40.0.1.14	Success
SDN-BRANCH-AS R1002	40.0.1.10	Success
SDN-CAMPUS-IS R3945.yourdomain.com	40.0.1.57	Success
SDN-CAMPUS-C4 K.cisco.com	40.0.1.42	Success
SDN-CAMPUS-C6 K-2.cisco.com	40.0.1.10	Success
SDN-BRANCH-C4 K	40.0.0.4	Success
SDN-BRANCH-WL C5K	40.0.1.74	Success
	40.0.1.85	Unreachable
	40.0.1.81	Unreachable
	40.0.0.10	Unreachable
	40.0.13.80	Unreachable
	40.0.13.80	Unreachable
	40.0.12.12	DISCARDED_DEVICE

Name	Description
Discoveries pane	<p>Lists the names of the discovery scans that have been created, along with the method and IP addresses used for discovery. The list is divided between active and inactive discoveries.</p> <p>A successful scan (one with discovered and authenticated devices) has the number of discovered devices indicated in a box to the right of the discovery name. An unsuccessful scan shows no box or number of devices discovered.</p> <p>From the Discoveries pane, clicking on a discovery name displays the information in the Discovery Details and Device Details panes.</p>
Discovery Details pane	<p>Provides detailed information about the discovery parameters that were used to perform the discovery, the state of the discovery, and the number of devices that were discovered. The buttons on this pane allow you to Start, Stop, and Delete discoveries.</p>
Devices pane	<p>Displays the host name, IP address, and status of the devices found during the scan.</p> <p>Discovery displays devices as discarded if the IP address belongs to an access point (associated with a wireless controller) or the device was filtered based on input given in the Subnet Filter field.</p>

