

# **Managing Devices and Hosts**

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# **Managing Your Device Inventory**

The **Device Inventory** window displays the results of the discovery scan. To access the **Discovery** window, from the **Navigation** pane, click **Device Inventory**.

#### cisco APIC - Enterprise Module / Device Inventory Δ $\odot$ Filters Lavout: Status × Clear Filters . Last Updated Time Device Name IP Address Reachability Status Up Time Last Inventory Collection Status Φ 8 SDN-BRANCH-ASR1002.cisco.com -207 days, 23:29:32.17 17 minutes ago ERROR-ENABLE-PASSWORD Reachable SDN-CAMPUS-C6K-2.cisco.com 113 days, 15:06:34.27 Reachable 18 minutes ago Managed ж 10 🔻 2 Devices First Previous 1 . Next Last 5 e<sup>9</sup> 6 ⊒ ● I wish this page would..

#### Figure 1: Device Inventory Window



Note

The information that is displayed depends on the Layout that you selected.

After the initial discovery, network devices are polled every 30 minutes. Polling occurs for each device, link, host, and interface. Only devices that have been active for less than a day are displayed. This prevents any stale device data from being displayed. On average, polling 500 devices takes approximately 20 minutes.

Name	Description				
Device Selection check boxes	Allows you to select devices to perform tasks.				
Filters	Allows you to refine the list of devices that are displayed in the table by name, location tag, and IP address.				
Layout	Allows you to choose from three predefined layouts or a customized layout:				
	• <b>Status</b> —Layout shows the device name, IP address, state of the device, how long it has been up, and the last time it was updated.				
	• Hardware—Layout shows the device name, IP address, device family, platform, serial number, MAC address, and role, along with its IOS/firmware version and a link to its configuration file.				
	• <b>Tagging</b> —Layout shows the device name, IP address, MAC address, device role, location, and tags.				
	• <b>Customize</b> —Layout shows the information in the columns that you have selected to display.				
	For descriptions of the columns of information that you can display, see the Device Inventory Information table below.				

Below the **Device Inventory** table, you can adjust the number of devices displayed in the table (10, 25, 50, 100), and you can click **First**, **Previous**, **Next**, **Last**, or the page number to navigate through the table.

The **Device Inventory** table displays the following information for each discovered device. All of the columns, except the **Config** column, support sorting. Clicking on the column header sorts the rows in an ascending order. Clicking on the column header again sorts the rows in descending order.

For more information, see the *Cisco Application Policy Infrastructure Controller Eneterprise Module Configuration Guide*.

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Column Name	Description
Device Status	State of the device.
	• <b>Connecting</b> —Controller is connecting to the device.
	• Reachable:
	• Discovered—Controller has connected to the device and is able to execute Cisco commands using the CLI.
	<ul> <li>Failure—Controller has connected to the device, but is unable to execute Cisco commands using the CLI. This status usually indicates that the device is not a Cisco device.</li> </ul>
	• Authentication Failed—Controller has connected to the device but is unable to determine what type of device it is. This device status also usually indicates that the device is not a Cisco device.
	• Unreachable—Controller is unable to connect to the device.
	<b>Note</b> If credentials are not provided at the time a discovery request is made or earlier, then the device status could be displayed as "Not reachable." You need to perform a new discovery with the correct credentials.

#### Table 1: Device Inventory Information

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Column Name	Description			
Device Name	Name of the device. Click the device name to display the <b>Device Overview</b> dialog box with the following information:			
	• Device serial number			
	• Device IP address			
	• MAC address			
	Cisco OS version			
	• Up time			
	• Product ID			
	• Vendor			
	• Memory size			
	<ul> <li>Note The device name appears red for any device whose inventory has not been updated for more than 30 minutes.</li> <li>The Device Overview dialog box also includes an Interfaces tab with the following interface data:</li> </ul>			
	• Status—Up or down			
	• Interface name—Name of the interface.			
	• MAC address—MAC address of the interface.			
MAC Address	MAC address of the device.			
IP Address	IP address of the device.			
IOS/Firmware	Cisco IOS software currently running on the device.			
Platform	Cisco product part number.			
Serial Number	Cisco device serial number. Period of time that the device has been up and running.			
Up Time				
Config	Click <b>View</b> to display detailed configuration information similar to the CLI <b>show running-config</b> command output.			
	<b>Note</b> This feature is not supported for access points and wireless LAN controllers, therefore configuration data is not returned for these device types.			

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Column Name	Description			
Device Role	Role assigned to each discovered device during the scan process. The device role is used to identify and group devices according to their responsibilities and placement within the network. If the controller is unable to determine a device role, it sets the device role as unknown.			
	NoteThe controller can change the device role as the network topology changes, but if you manually change the device role, then the role will not change as the network topology changes.If desired, you can use the drop-down list in this column to change the assigned device role. The following device roles are available:			
	• Unknown			
	• Access			
	• Core			
	• Distribution			
	• Border Router			

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Column Name Description			
Location	Tag that you can apply to a device to denote its geographic location. By applying the same tag to several devices, you can group them based on a common attribute. The <b>Device Inventory</b> window and <b>Topology</b> window support location tags.		
	Use the following guidelines when creating location tags:		
	• Location tag information is maintained on the controller only and not deployed to or dirived from the device itself.		
	• A location defined on the controller is not the "civic-location" property that some devices support.		
	• You cannot create, use, or search for location tags in the <b>Topology</b> window.		
	• Location tags cannot be attached to hosts.		
	• You can apply only one location tag to a device. However, you can use both a location tag and a device tag together.		
	For information about adding location tags, see Adding or Removing Location Tags, on page 15.		
	Along with the location tag, you can add a geographical marker on a world map to a device. For information, see Adding or Changing a Location Marker, on page 17.		
Device Tag	Tag assigned to devices to identify them by a common attribute. For example, you can create a tag and use it to group devices based on a platform ID or Cisco IOS release.		
	A number in the <b>Tag</b> column indicates how many tags have been applied to that device.		
	NoteYou are permitted to use both a location tag and a device tag together.For information about adding or removing device tags, see Adding or Removing a Device Tag in Device Inventory, on page 12.		
	For information about deleting a tag from the controller database, see Deleting a Tag, on page 18.		

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Column Name	Description
Policy Tag	Tag applied to a group of devices that will share the same policy.
	After applying a policy tag, you need to configure the policies that will be applied to the devices with the same policy tag. For information about configuring QoS policies, see Configuring Quality of Service.
Last Updated Time	Date and time that the device was last scanned and the controller database was updated.
Device Family	Group of related devices, as follows:
	Cisco Interfaces and Modules
	• Routers
	• Switches and Hubs
	Third Party Device
	Unsupported Cisco Device
	Wireless Controller
Device Series	Series number of the device, for example, Cisco Catalyst 4500 Series Switches.
Last Inventory Collection Status	Status of the last discovery scan for the device:
	• Managed—Device is in a fully managed state.
	• <b>Partial Collection Failure</b> —Device is in a partial collected state and not all the inventory information has been collected. Move the cursor over the <b>Information</b> (i) icon to display additional information about the failure.
	• Unreachable—Due to device connectivity issues, the device could not be reached and no inventory information was collected. This condition can occur when periodic collection happens.
	• Wrong Credentials—If the device credentials are changed after adding the device to the inventory, this condition is noted.
	• In Progress—Inventory collection is occurring.

# Filtering Devices in the Device Inventory Window

You can filter the devices displayed in the **Devices Inventory** window by device name, location, IP address and VRF instance.

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Ψ	DEVICE NAME		Device Name	IP Address	Reachability Status	Up Time	Last Updated Time	Last Inventory Collection Sta	tus	
¥.	Search +		SDN-BRANCH-ASR1002.cisco.com	40.0.1.10	Reachable	217 days, 22:56:29.78	4 minutes ago	ERROR-ENABLE-PASSWORD 0		
	DEVICE LOCATION									-1
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e, A	DEVICE IP ADDRESS									
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#### **Before You Begin**

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

#### Procedure

- Device Name
- Device Location
- Device IP Address
- Device VRF
- **Step 2** Enter the appropriate value in the selected filter field. For example, for the **Device Name** filter, enter the name of a device.

The controller presents you with auto-complete values as you enter values in the other fields. Choose one of the suggested values or finish entering the desired value.

- **Note** You can also use a wildcard (asterisk) with these filters. You can enter values with the asterisk at the beginning, end, or in the middle of the string value.
- Step 3 Click the plus (+) icon to perform the filter.The data displayed in the Devices table automatically updates according to your filter selection.

**Step 1** From the **Device Inventory** toolbar, click **Filters**. The following filters display:

Step 4	(Optional) If needed, add more filters following the above steps.				
	Note	You can filter on more than one value per filter or across several different filter			
		types.			
Step 5	To remo	ove the filter, click the $\mathbf{x}$ icon next to the filter value.			

#### What to Do Next

Review the updated information displayed in the **Device Inventory** window. If required for your network configuration, make changes to the displayed columns within the **Devices** table view.

# **Changing the Devices Layout View**

You can change the information that is displayed in the **Devices** table by selecting different layout views or by customizing a layout view for the devices in your network.

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	• Filte	rs	Layout: Status 🗸						Clear Filte	rs
0		Device Name		IP Address	Reachability Status	Up Time	Last Updated Time	Last Inventory (	Collection Status	
		SDN-BRANCH-ASR100	02.cisco.com	-	Reachable	207 days, 23:29:32.17	17 minutes ago	ERROR-ENA	ABLE-PASSWORD ()	
		SDN-CAMPUS-C6K-2.c	cisco.com	-	Reachable	113 days, 15:06:34.27	18 minutes ago	Managed		
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#### **Before You Begin**

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

#### Procedure

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**Step 1** From the **Device Inventory** toolbar, click the **Layout** field and choose one of the following layout options from the drop-down list:

- Status—Displays general device status information, including up time, update frequency, and number of updates.
- Hardware—Displays hardware information, including IOS/firmware, serial number, and device role.
- Tagging—Displays tagging information, including device role, location, and tag.
- Customize-Displays a list of options to choose from to create your own layout.

APIC-EM displays the information for the chosen layout.

**Step 2** To customize a specific layout, choose **Customize** and select the desired display options. Display options toggle on and off. Blue options with checkmarks indicate that the option is on and is displayed in the table.

#### What to Do Next

Review the updated information displayed in the **Device Inventory** window. If required for your network configuration, make any adjustments.

### **Changing the Device Role**

During the scan process, the controller assigns a role to each discovered device. The device role is used to identify and group devices according to their responsibilities and placement in the network.

A device can have one of the following roles:

- Unknown—Device role is unknown.
- Access—Device is located in and performs tasks required of the access layer or first tier/edge of the network.
- Border Router—Device performs tasks required of a border router.
- Distribution—Device is located in and performs tasks required of the distribution layer of the network.

• Core—Device is located in and performs tasks required of the core of the network.



Figure 2: Device Roles and Network Locations

You can change the device role in the Device Inventory window.



You can also change the device role from the **Topology** window. See Changing a Device's Role From the Topology Window.

#### **Before You Begin**

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

You must have either administrator (ROLE\_ADMIN) or policy administrator (ROLE\_POLICY\_ADMIN) permissions and the appropriate RBAC scope to perform this procedure.

#### Procedure

- **Step 1** From the **Navigation** pane, click **Device Inventory**. The **Devices Inventory** window appears.
- Step 2 From the Device Inventory toolbar, choose one of the options from the Layout drop-down list. Valid options are Hardware, Tagging, or Customize > Device Role. The table refreshes and includes a column for the Device Role.
- Step 3 Locate the device you want to change and choose a new role from the drop-down list in the Device Role column.
   Valid choices are Unknown, Access, Core, Distribution, or Border Router.

#### What to Do Next

If required, change the role of other devices in the Device Inventory window.

# **Deleting a Device**

You can delete devices from the Cisco APIC-EM database.

#### **Before You Begin**

You must have administrator (ROLE\_ADMIN) permissions and access to all devices (RBAC Scope set to ALL) to perform this procedure.

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

#### Procedure

Step 1	From t	From the Navigation pane, click Device Inventory.						
Step 2	Click th A toolb	he check box next to the device that you want to delete. Dear opens.						
	Note	Even after the toolbar opens, you can select multiple devices by clicking additional check boxes, or you can select all devices by clicking the checkbox at the top of the list.						
Step 3	From t	ne open toolbar, click <b>Delete</b> .						

# Adding or Removing a Device Tag in Device Inventory

You can group devices according to common attributes by applying device tags. For example, you may want to apply device tags to group devices by their platform ID or Cisco IOS release. A single device can have multiple device tags; similarly, a single device tag can be applied to multiple devices.



For information about Policy tags and Location tags, see Adding or Removing a Policy Tag in Device Inventory, on page 14 and Adding or Removing Location Tags, on page 15.

#### Figure 3: Device Tags Dialog Box

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		Device Tag Title + Create	ß			

#### **Before You Begin**

You must have administrator (ROLE\_ADMIN) permissions and access to all devices (RBAC Scope set to ALL) to perform this procedure.

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

#### Procedure

- Step 1 From the Navigation pane, click Device Inventory.
- **Step 2** From the **Device Inventory** toolbar, choose **Layout** > **Tagging** from the drop-down list. The table refreshes and displays a **Device Tag** column in addition to other columns.
- Step 3Select the check box to the left of the desired devices and click Set Device Tags.NoteFor a single device, you can also click the number displayed in the Device Tag column.
- **Step 4** Do one of the following:

- To apply a device tag, from the Available Tags list, click the tags that you want to apply to the selected devices.
- Note If the desired tag is not in the list, enter a name for the tag and click +New Tag.
  - To remove a device tag, from the **Applied Tags** list, click the **Trash can** icon next to the tag that you want to remove from the selected devices.
- **Note** The **Applied Tags** list is populated only if at least one of the selected devices has a tag applied to it.
- **Step 5** Click **x** to close the dialog box.

#### What to Do Next

If required for your network configuration, add location or policy tags to your devices.

# Adding or Removing a Policy Tag in Device Inventory

You can apply a policy tag applied to a group of devices so that you can deploy the same QoS policy to those devices at the same time.



#### **Before You Begin**

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

#### **Procedure**

Step 1	From th	e Navigation	pane. click	Device	Inventory.
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- **Step 2** From the **Device Inventory** toolbar, choose **Layout** > **Tagging** from the drop-down list. The table refreshes and displays a **Policy Tag** column in addition to other columns.
- Step 3Select the check box to the left of the desired devices and click Set Policy Tag.NoteFor a single device, you can also click Add displayed in the Policy Tag column.
- **Step 4** Do one of the following:
  - To apply a policy tag, from the **Available Tags** list, click the tag that you want to apply to the selected devices.
  - **Note** If the desired tag is not in the list, enter a name for the tag and click +New Tag.
    - To remove a policy tag, from the **Applied Tags** list, click the **Trash can** icon next to the tag that you want to remove from the selected devices.
  - **Note** The **Applied Tags** list is populated only if at least one of the selected devices has a tag applied to it.

**Step 5** Click **x** to close the dialog box.

#### What to Do Next

If you added a policy tag to devices and now want to configure QoS policies, see the *Cisco EasyQoS Solution Guide*.

# Adding or Removing Location Tags

You can apply a location tag to a device to name a device's geographic location. By applying the same tag to several devices, you can group them based on their common location. You can create a location tag and, optionally, place a corresponding location marker on a geographical map. For information, see Adding or Changing a Location Marker, on page 17.

Use the following guidelines when adding location tags:

- Location tag information is maintained on the controller only and not deployed to or dirived from the device itself.
- When location tags and markers are used, the **Topology** window displays them on a geographical map.
- A location defined on the controller is not the "civic-location" property that some devices support.
- Location tags cannot be attached to hosts.

• You can apply only one location tag to a device. However, you can use both a location tag and a device tag together.

#### Figure 4:



#### **Before You Begin**

You must have administrator (ROLE\_ADMIN) permissions and access to all devices (RBAC Scope set to ALL) to perform this procedure.

#### Procedure

- **Step 1** From the Navigation pane, click Device Inventory.
- **Step 2** From the **Device Inventory** toolbar, choose **Layout** > **Tagging** from the drop-down list. The table refreshes and displays a **Location** column in addition to other columns.
- **Step 3** Select the check box to the left of the desired devices (or select the check box at the top of the list to select all devices) and click **Set Location**.
  - **Note** For a single device, you can also click the **Add** link displayed in the **Location** column for that device.
- **Step 4** Do one of the following:
  - To apply a location tag, from the **Available Tags** list, click the tag that you want to apply to the selected devices. If the desired tag is not in the list, click the plus icon (+), enter a name for the tag, and click the check mark icon.
  - To remove a location tag assignment from the devices, in the Edit Location field, click the x icon. The devices now have no location tag assignment.
  - To change the current location tag to another one, click the new location tag that you want to assign.
  - To delete the location tag, first make sure that it is not in use (either change device assignments to other location tags or remove the tag assignment altogether). Then, click the trash can icon next to the location tag that you want to delete.
- **Step 5** When you are done, click **x** to close the dialog box.

#### What to Do Next

If required for your network configuration, add or remove other location tags to other devices or add location markers.

#### **Related Topics**

Adding or Changing a Location Marker, on page 17

# Adding or Changing a Location Marker

A location marker is an icon used to indicate the location of the devices associated with a location tag on a geographical map. You can add a location marker to devices in the **Device Inventory** window.

#### **Before You Begin**

You must have administrator (ROLE\_ADMIN) permissions and access to all devices (RBAC Scope set to ALL) to perform this procedure.

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

You have already added location tags to your devices.

#### Procedure

**Step 1** From the Navigation pane, click Device Inventory.

- **Step 2** From the **Device Inventory** toolbar, choose **Layout** > **Tagging** from the drop-down list. The table refreshes and displays a **Location** column in addition to other columns.
- **Step 3** (Optional) To display devices with a specific location tag, from the **Device Inventory** toolbar, click **Filters**, enter a location tag in the **Device Location** field, and click the + icon.

**Step 4** Select the desired location tag from the Locations column.

- **Note** Because you are not assigning a location tag, it is not important which device you choose. When you add or remove a location marker, the change is applied to the location tag, and all devices that have the location tag will be updated.
- **Step 5** To add or change a location marker, select the location tag from the **Available Locations** pane and do one of the following:
  - In the Address of Location field on the right side of the geographical map, enter the address where you want to place the location marker. You can enter a complete address or part of an address, for example, a city name or zip code. Cisco APIC-EM displays the location on the map. Click the map where you want the marker to be placed and confirm the action in the confirmation dialog box that appears.
  - Position the map as close to the desired location as possible using your mouse to drag and drop, zoom in, and zoom out on the map, then click the map.
  - **Note** If you need to reposition the marker, click the map again where you want the marker to be placed.

#### Figure 5: Edit Location Dialog Box Showing Location Marker

Screen shot to be provided.

- **Step 6** (Optional) To add additional location markers, click another location tag and repeat Step 5.
- **Step 7** When you are done, click **x** to close the dialog box.

#### **Related Topics**

Topology

Topology Icons Topology Toolbar

### **Deleting a Tag**

When a device tag, policy tag, or location tag is no longer needed, you can delete it, and it is removed permanently from the controller. You can delete device tags using the **Device Inventory** window or the **Topology** window. Policy tags and location tags can be deleted only from the **Device Inventory** window. This procedure shows you how to delete tags from the **Device Inventory** window.

#### **Before You Begin**

You must have administrator (ROLE\_ADMIN) permissions and access to all devices (RBAC Scope set to ALL) to perform this procedure.

Make sure that you have devices in your inventory. If not, discover devices using the Discovery function.

Before you can delete a tag, you need to remove it from all devices that have been assigned the tag.

#### Procedure

- **Step 1** From the Navigation pane, click Device Inventory.
- Step 2 From the Device Inventory toolbar, choose Layout > Tagging from the drop-down list.
- **Step 3** Do one of the following:
  - To delete a device tag, click any number in the **Device Tag** column. From the **Available Tags** list, click the **Trash can** icon next to the tag or tags that you want to delete.
  - To delete a policy tag, click Add or the name of a policy tag in the **Policy Tag** column. From the **Available Tags** list, click the **Trash can** icon next to the tag or tags that you want to delete.
  - To delete a location tag, click Add or the name of a location tag in the Location column. From the Available Locations list, click the Trash can icon next to the tag or tags that you want to delete.

#### **Step 4** Click **OK** to confirm the deletion.

The tag is removed permanently from the controller.

If the deletion fails, the tag might still be assigned to devices. Remove the tag from these devices and try to delete the tag again.

**Step 5** Click **x** to close the dialog box.

# **Managing Your Host Inventory**

Cisco APIC-EM displays information about the discovered hosts in the Host Inventory window.

The following table describes the information that is displayed about the hosts in your inventory.



Use the filters located below the **Host Inventory** table to limit the number of hosts displayed in the table (10, 25, 50, 100) or to view groups of hosts at a time (First, Previous, Next, Last, or 1-3).

#### Figure 6: Host Inventory Window

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â	O Filters						ci	lear Filters
	Host MAC Address	Host IP Address	Host Type	Connected Network Device IP Address	Connected Interface Name		Host Name	э
⊒	00:50:56:aa:6f:6d	200.200.200.136	WIRED	150.50.3.2	GigabitEthernet1/0/37			
*	00:50:56:aa.cb:38	200.200.200.134	WIRED	150.50.3.2	GigabitEthernet1/0/37			
.9	00:50:56:aa:d3:fc	200.200.200.135	WIRED	150.50.3.2	GigabitEthernet1/0/37			
ø	00:50:56:aa:ef.e6	200.200.200.24	WIRED	150.50.3.2	GigabitEthernet1/0/37			
Z	58:ac:78:59:5f:3f	200.200.200.129	WIRED	150.50.3.2	GigabitEthernet1/0/31			
	10 per page 🔻			5 Hosts		< Previous	1 of 1 🔻	Next >

The following table describes the information that is displayed about the hosts in your inventory.

#### Table 2: Host Inventory

Host Inventory	Description			
Host Name	Name of the host.			
Host MAC address	MAC address of the host.			
Host IP address	IP address of the host.			
Host type	Type of host (wired or wireless).			
Connected Network Device IP Address	IP address of the device that is connected to the host.			
	Note IP addresses of only wired devices are shown.			
Connected Interface Name	Name of the interface that the device is connected to. For example, GigabitEthernet1/0/24.			

# Filtering Hosts in the Host Inventory Window

You can filter the hosts displayed in the **Host Inventory** window by host MAC address, host IP address, host name, host type, connected network device IP address, or connected interface name.

#### **Before You Begin**

Make sure that you have hosts in your inventory. If not, discover them using the Discovery function.

#### Procedure

- **Step 1** From the **Host Inventory** toolbar, click **Filters**. You can choose from the following filter options:
  - Host MAC Address
  - Host IP Address
  - Host Name
  - Host Type
  - Connected Network Device IP Address
  - Connected Interface Name

#### **Step 2** Enter the appropriate value in the selected filter field.

For example, for the Host Name filter, enter the name of the host.

The controller presents you with auto-complete values as you enter values in the other fields. Choose one of the suggested values or finish entering the value.

- **Note** You can also use a wildcard (asterisk) with these filters. You can enter values with the asterisk at the beginning, end, or in the middle of the string value.
- Step 3 Click the plus (+) icon to perform the filter.The data displayed in the Devices table automatically updates according to your filter selection.
- Step 4 (Optional) If needed, add more filters following the above steps.Note You can filter on more than one value per filter or across several different filter types.
- **Step 5** To remove the filter, click the **x** icon next to the filter value.