



# Configuration

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## Configure Active Discovery

Once the sensor is connected, you can change the Active Discovery's network interface so it uses the Collection network interface instead, and add several network interfaces for the sensor to perform Active Discovery on several subnetworks at the same time.

### Procedure

**Step 1** Click the sensor to configure and click the **Active Discovery** button on its right side panel.

Sensor Explorer

From this page, you can explore and manage sensors and sensors folders. Sensors can be remotely and securely managed. For the first time, you must authorize it so the Center can receive its data.

[+ Install sensor](#) [Manage Cisco devices](#) [Organize](#)

Folders and sensors (3)

[Filter](#) 0 Selected [Move selection to](#) [More Actions](#)

<input type="checkbox"/>	Label	IP Address	Version	Location	Health status
<input type="checkbox"/>	FCW2445P6X5	192.168.49.21	4.1.0+202202151440		Connected
<input type="checkbox"/>	FCW2445P6X5	192.168.49.21	4.1.0+202202151440		Connected
<input type="checkbox"/>	FCW2445P6X5	192.168.49.21	4.1.0+202202151440		Connected

FCW2445P6X5

Label: FCW2445P6X5  
Serial Number: FCW2445P6X5  
IP address: 192.168.49.21  
Version: 4.1.0+202202151440  
System date: Feb 24, 2022 4:13:06 PM  
Deployment: Sensor Management Extension  
Active Discovery: Enabled  
Capture mode: All

System Health  
Status: Connected  
Processing status: Normally processing  
Uptime: a day

[Go to statistics](#)

[Start Recording](#)

[Move to](#)

[Capture mode](#) [Redeploy](#)

[Uninstall](#) [Active Discovery](#)

The Active Discovery configuration appears with the interface currently set.

**Step 2** Select **Use collection interface** for the Active Discovery to use the Collection network interface.

To add a network interface to Active Discovery for the sensor to perform active monitoring on another subnetwork:

**Step 3** Add a new network interface by clicking the corresponding button.

**Step 4** Fill the following parameters to set dedicated network interfaces:

- IP address
- Prefix length
- VLAN number

**Step 5** Click **Add**.

You can add as many network interfaces as needed.

**Step 6** When you are done, click **Configure**.

A message saying that the configuration has been applied successfully appears.

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# Configure sensor configuration template

## Templates

This page allows you to create and set templates with protocol configurations and assign them to specific sensors.

Sensor templates contain protocol configurations which allow you:

- To enable or disable protocol DPI (Deep Packet Inspection) engines.
- To map UDP and TCP ports for each protocol's packet received by the sensor.

By enabling/disabling a protocol DPI engine you can decide which protocols will be analyzed.

Disabling a protocol DPI engine avoid false positives in Cisco Cyber Vision, that is when a protocol appears on the user interface when it's actually not the case because same UDP/TCP ports can be used by other non-standardized protocols.

Some protocols are disabled in the Default template because they are not commonly used or used in specific fields such as transportation. The Default template is applied on all compatible sensors.

As previously mentioned, UDP/TCP ports default configurations are mostly standardized, but conflicts still exist among field-specific protocols or with limited usage. Mapping UDP/TCP port numbers will allow packets to be sent to the correct DPI engine so they can be accurately analyzed and correctly represented in the user interface.

If the protocol's packet is sent to the wrong port, related information will end up in Security Insights/Flows with no tag.

A sensor can be associated with a single template only. Deployment of the template can fail:

- if the sensor is disconnected,
- if there is connection issues,
- if the sensor version is too old.

## Create templates

### Procedure

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- Step 1** In Cisco Cyber Vision, navigate to Admin > Sensors > Templates.
- Step 2** Click **Add sensor template**.

The Create sensor template window pops up.

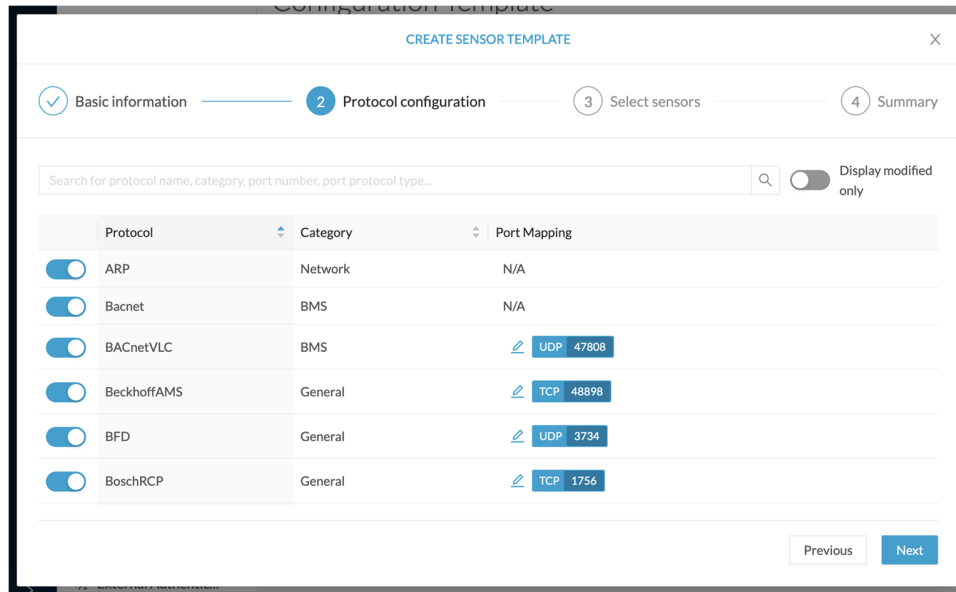
### Step 3

Add a name to the template. You can also add a description.

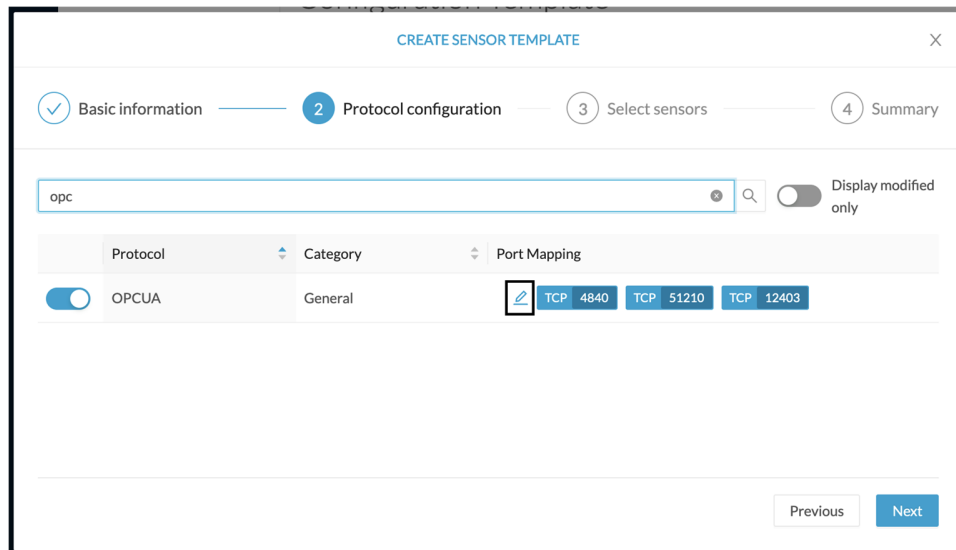
### Step 4

Click **Next**.

The list of protocol DPI engines with their basic configurations appears.

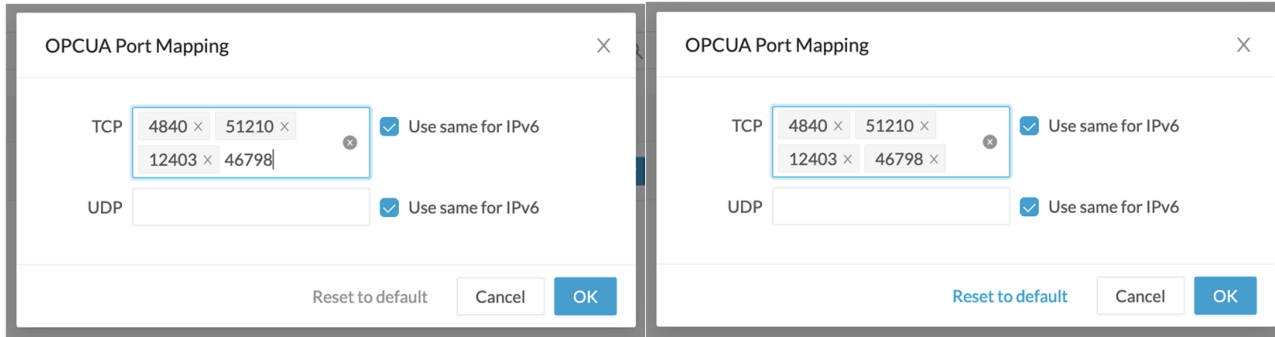


**Step 5** In the search bar, type the protocol you want to configure.  
 In our example, we will add a port to the OPCUA default settings.



**Step 6** Under the Port Mapping column, click the **pen** button to edit its settings.  
 The protocol's port mapping window pops up.

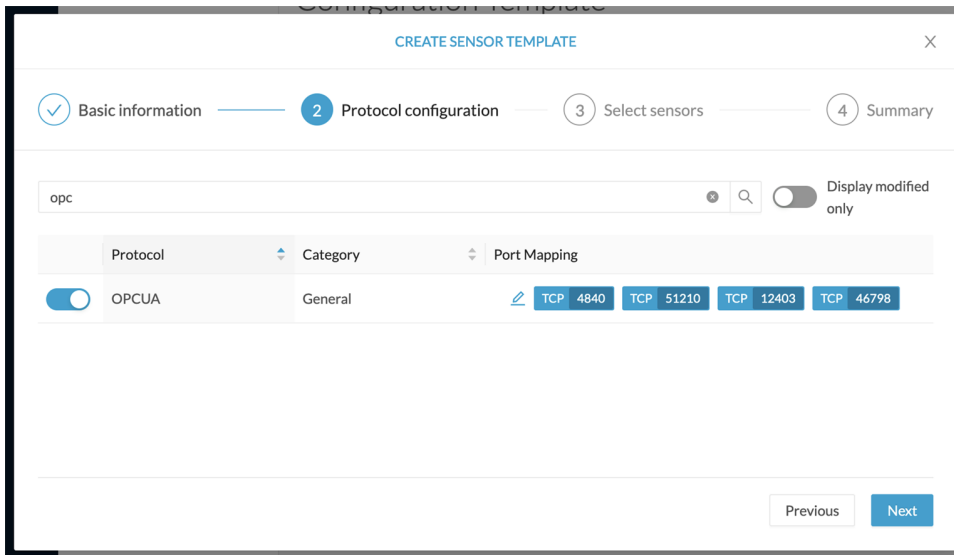
**Step 7** Write down the port number you want to add and hit enter.



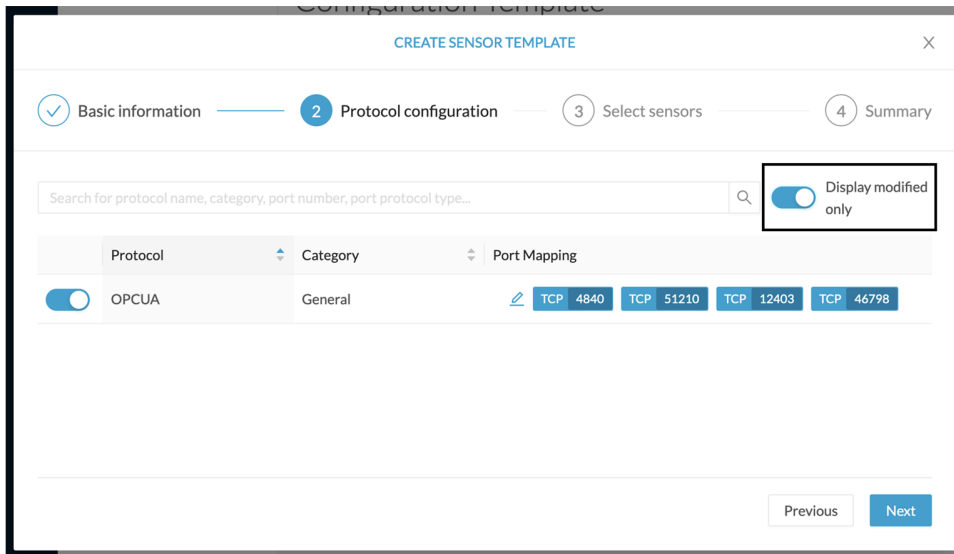
**Step 8**

Click **OK**.

The port number is added to the protocol's default settings.

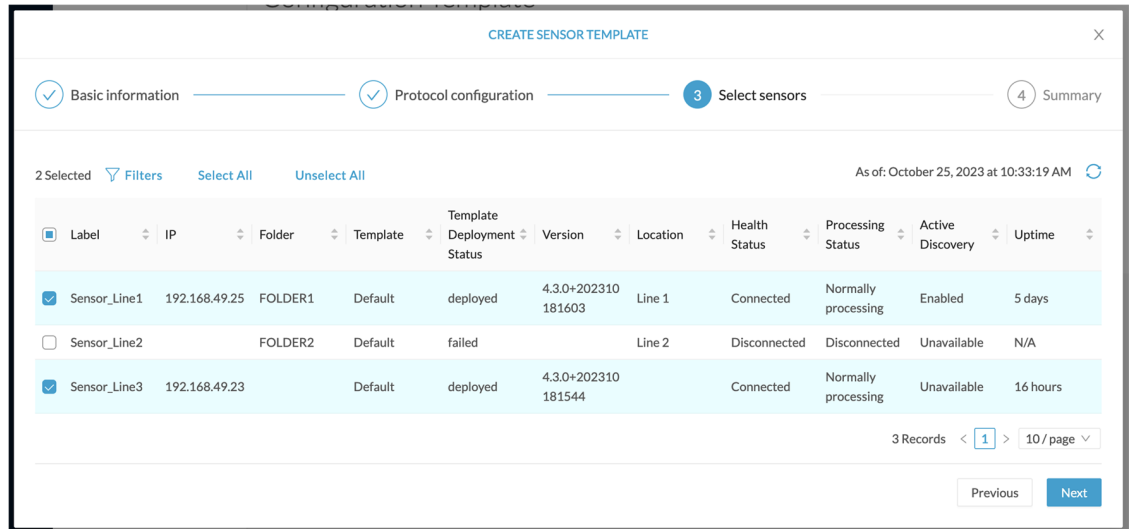


toggling ON the **Displayed modified only** button allows you to quickly find this protocol.



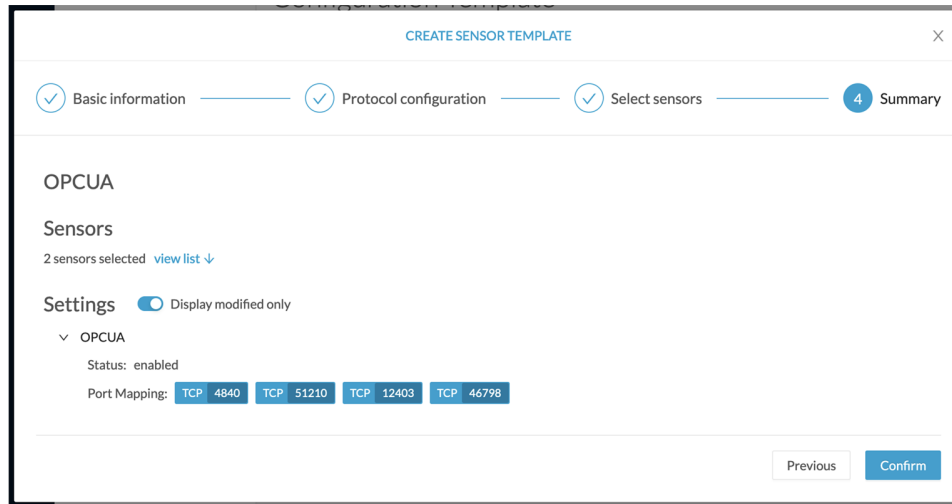
**Step 9** Click **Next**.

**Step 10** Select the sensor(s) you want to apply the template to.



**Step 11** Click **Next**.

**Step 12** Check the template configurations and **Confirm** its creation.



The configuration is sent to the sensors. Configuration deployment will take a few moments.

The OPCUA template appears in the template list with its two assigned sensors.

## Configuration Template

Sensor configuration templates allow you to enable and personalize protocol settings, and deploy them to a large number of sensors.

[+ Add sensor template](#) As of: October 24, 2023 at 3:06:55 PM

Name	Sensor Count	Deployment progress	Last update	Actions
Default	1	<div style="width: 100%; height: 10px; background-color: red; position: relative;"><span style="position: absolute; right: -10px; top: -5px;">✖</span></div>	-	...
OPCUA	2	<div style="width: 100%; height: 10px; background-color: green; position: relative;"><span style="position: absolute; right: -10px; top: -5px;">✔</span></div>	Today	...

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## Set a capture mode

The Capture mode feature lets you choose which network communications will be analyzed by the sensors. You can set it by clicking an online sensor in the sensors list of the Sensor Explorer page or during a sensor installation.

*Setting the capture mode on a sensor from the right side panel:*

### Sensor Explorer

From this page, you can explore and manage sensors and sensors folders. Sensors can be remotely and connects for the first time, you must authorize it so the Center can receive its data.

[+ Install sensor](#) [Manage Cisco devices](#) [Organize](#)

Folders and sensors (5)

[Filter](#) 0 Selected Move selection to [More Actions](#)

<input type="checkbox"/>	Label	IP Address	Version	Location	Health status
<input type="checkbox"/>	<a href="#">FOLDER1</a>			Lyon	
<input type="checkbox"/>	<a href="#">FOLDER2</a>			Paris	
<input type="checkbox"/>	FCY014567	192.168.49.41			Discon
<input type="checkbox"/>	FCH2309Y01Z	192.168.49.23	4.1.0+202202151504		Conne
<input type="checkbox"/>	FCW2445P6X5	192.168.49.21	4.1.0+202202151440		Conne

FCH2309Y01Z ✕

Label: FCH2309Y01Z

Serial Number: FCH2309Y01Z

IP address: 192.168.49.23

Version: 4.1.0+202202151504

System date: Mar 9, 2022 11:46:58 AM

Deployment: Sensor Management Extension

Active Discovery: Enabled

Capture mode: All

**System Health**

Status: Connected

Processing status: Pending data

Uptime: 20 hours

[Go to statistics](#)

[Start Recording](#)

Move to

Download package

Capture mode

Redeploy

Enable IDS

Reboot

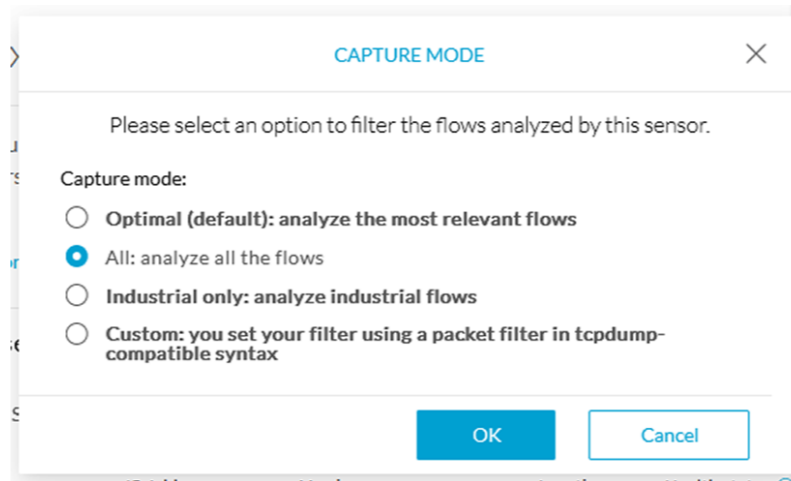
Shutdown

Uninstall

Active Discovery

*Capture modes:*





The aim is mainly to focus the monitoring on relevant traffic but also to reduce the load on the Center.

For example, a common filter in a firewall can consist of removing the network management flows (SNMP). This can be done by setting a filter like "not (port 161 and host 10.10.10.10)" where "10.10.10.10" is the network management platform.

Using Capture mode Cisco Cyber Vision performance can be improved on large networks.

Capture modes operate because of filters applied on each sensor. Filters are set to define which types of incoming packets are to be analyzed by the sensors. You can set a different filter on each sensor according to your needs.

You can set the capture mode in the installation wizard when enrolling the sensors during the Center installation. This option is recommended if you already know which filter to set. Otherwise, you can change it at any time through the Sensor Explorer page in the GUI (provided that the SSH connection is allowed from the Center to the sensors).



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**Note** You can set a capture mode to offline sensors from a file containing the filter and registered on the USB drive. This will be then plugged on the Offline USB port of the device. For more information about setting a capture mode on an offline sensor contact the support.

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The different capture modes are:

- **ALL:** No filter is applied. The sensor analyzes all incoming flows and they will all be stored inside the Center database.
- **OPTIMAL (Default):** The applied filter selects the most relevant flows according to Cisco expertise. Multicast flows are not recorded. This capture mode is recommended for long term capture and monitoring.
- **INDUSTRIAL ONLY:** The filter selects industrial protocols only like modbus, S7, EtherNet/IP, etc. This means that IT flows of the monitored network won't be analyzed by the sensor and won't appear in the GUI.
- **CUSTOM (advanced users):** Use this capture mode if you want to fully customize the filter to be applied. To do so you will need to use the tcpdump syntax to define the filtering rules.

