



# Maintenance

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## Upgrade procedures

### Sensor Self Update

Cisco Cyber Vision now allows sensor updates regardless of the install method (i.e., without the extension). Release 4.4.1 provides the necessary foundation for sensor self-updates. However, the self-update feature will only be functional in future releases.

Starting with Cisco Cyber Vision release 4.4.1, you can update all sensors automatically. The required steps are:

- Select sensors to update.
- The Center adds a new job to the sensor queue.
- The sensor automatically collects and validates the update file.
- The sensor restarts with the new version.

### Update Warnings

In the Cisco Cyber Vision center on the Sensor Explorer page (Admin – Sensors – Sensor Explorer), users receive an alert to update the sensor. When this happens, the version number turns red, and a blue arrow with a tooltip indicates the sensor is upgradeable.

The screenshot displays the Cisco Cyber Vision interface, specifically the Sensor Explorer section. The left sidebar contains navigation options: Explore, Reports, Events, Monitor, Search, and Admin. The main content area is titled "Sensor Explorer" and includes a sub-menu with options like System, Data Management, Network Organization, Sensors, Templates, Management jobs, PCAP Upload, Active Discovery, and Users. The Sensors section is active, showing a table of "Folders and sensors (6)".

At the top of the Sensors section, there are buttons for "Install sensor", "Manage Cisco devices", and "Organize". Below this, a table lists sensors with columns for Label, Serial Number, IP address, version, and status. A tooltip is visible over the first sensor, indicating an update is available.

Label	Serial Number	IP Address	Version	Status
	FCH2309Y02K	192.168.49.37	4.4.0	Update available
	FOC2716ZEMN	192.168.49.101	4.4.0	Up to date

The tooltip for the first sensor reads: "This device can be updated to version 4.4.0-202405232039".

On the sensor's right-side, the same blue arrow and an **Update** button is visible.

FCH2309Y02K ✕

Label: FCH2309Y02K ✎  
Serial Number: FCH2309Y02K  
IP address: 192.168.49.37  
Version: 4.4.0+202405071629 ⬆️  
System date: Jun 5, 2024 3:32:50 PM  
Deployment: Sensor Management Extension  
Active Discovery: Enabled  
Capture mode: All  
Template: Default ✎

**System Health**  
Status: Connected  
Processing status: Normally processing  
Uptime: 20 minutes

[📊 Go to statistics](#)

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▶️ Start Recording

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📁 Move to

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<span>🔑 Capture mode</span>	<span>🔄 Redeploy</span>
<span>🛡️ Enable IDS</span>	<span>⊖ Uninstall</span>
<span>🔍 Active Discovery</span>	
<span>⬆️ Update</span>	

## Update Procedure

### Procedure

- 
- Step 1** Use the checkboxes on the left to select multiple sensors.

**Folders and sensors (6)**

Filter 3 Selected Move selection to More Actions

	Label	Serial Number	IP Address	Version	Update status
<input checked="" type="checkbox"/>	FCH2309Y02K	FCH2309Y02K	192.168.49.37	4.4.0	
<input checked="" type="checkbox"/>	FOC2716ZEMN	FOC2716ZEMN	192.168.49.101	4.4.0	
<input type="checkbox"/>	ie3400esc00	FCW2445P6X5	192.168.49.21	4.4.0	
<input checked="" type="checkbox"/>	IE3400esc02	FCW2721Y1GC	192.168.49.25	4.4.0	
<input type="checkbox"/>	IE3400esc03	FCW2721Y1QV	192.168.49.27	4.4.0	
<input type="checkbox"/>	IE3400esc04	FCW2721Y1FK	169.254.0.2	4.4.0	

**Step 2** Go to the **More Actions** and click **Update sensors**.

The sensor self-update menu appears.

**Folders and sensors (6)**

Filter 3 Selected Move selection to More Actions

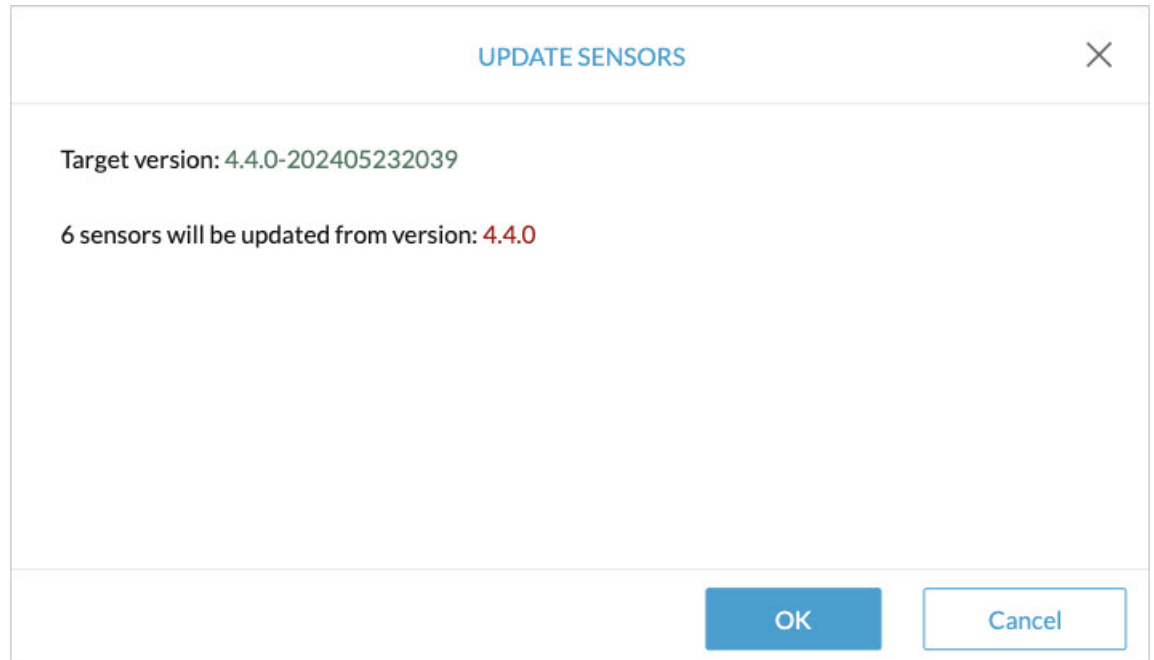
	Label	Serial Number	IP Address	Version	Update status
<input checked="" type="checkbox"/>	FCH2309Y02K	FCH2309Y02K	192.168.49.37	4.4.0	
<input checked="" type="checkbox"/>	FOC2716ZEMN	FOC2716ZEMN	192.168.49.101	4.4.0	
<input type="checkbox"/>	ie3400esc00	FCW2445P6X5	192.168.49.21	4.4.0	

More Actions menu:

- Delete folders
- Update sensors



**Step 3** Click **OK**.



**Step 4** During the update, a blue circle appears in the **Update status** column.

Folders and sensors (6)

Filter 0 Selected Move selection to More Actions

<input type="checkbox"/>	Label	Serial Number	IP Address	Version	Update status	Location
<input type="checkbox"/>	FCH2309Y02K	FCH2309Y02K	192.168.49.37	4.4.0		
<input type="checkbox"/>	FOC2716ZEMN	FOC2716ZEMN	192.168.49.101	4.4.0		
<input type="checkbox"/>	ie3400esc00	FCW2445P6X5	192.168.49.21	4.4.0		
<input type="checkbox"/>	IE3400esc02	FCW2721Y1GC	192.168.49.25	4.4.0		
<input type="checkbox"/>	IE3400esc03	FCW2721Y1QV	192.168.49.27	4.4.0		
<input type="checkbox"/>	IE3400esc04	FCW2721Y1FK	169.254.0.2	4.4.0		

**Step 5** After the update, the version number turns black, and a green symbol appears in the **Update status** column.

<input type="checkbox"/>	Filter	0 Selected	Move selection to	More Actions		
<input type="checkbox"/>	Label	Serial Number	IP Address	Version	Update status	Location
<input type="checkbox"/>	FCH2309Y02K	FCH2309Y02K	192.168.49.37	4.4.0		
<input type="checkbox"/>	FOC2716ZEMN	FOC2716ZEMN	192.168.49.101	4.4.0		
<input type="checkbox"/>	ie3400esc00	FCW2445P6X5	192.168.49.21	4.4.0		
<input type="checkbox"/>	IE3400esc02	FCW2721Y1GC	192.168.49.25	4.4.0		
<input type="checkbox"/>	IE3400esc03	FCW2721Y1QV	192.168.49.27	4.4.0		
<input type="checkbox"/>	IE3400esc04	FCW2721Y1FK	169.254.0.2	4.4.0		

**Step 6** The **Update in progress** status is visible.

ie3400esc00 ✕

Label: ie3400esc00 ✎  
Serial Number: FCW2445P6X5  
IP address: 192.168.49.21  
Version: 4.4.0+202405071631  
System date: Jun 5, 2024 3:34:59 PM  
Deployment: Manual  
Active Discovery: Enabled  
Capture mode: All  
Template: Default ✎

**System Health**  
Status: Connected  
Processing status: Normally processing  
Uptime: 1 hour

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▶ Start Recording

---

📁 Move to

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↓ Download package      🔑 Capture mode

⊖ Uninstall      🔍 Active Discovery

↻ Update      🔄 Update in progress

## Update Failure

If the update is unsuccessful, the **Update status** column displays a red cross and a message that provides the details.

	Label	Serial Number	IP Address	Version	Update status
<input type="checkbox"/>	FCH2309Y02K	FCH2309Y02K	192.168.49.37	4.4.0	Update unsuccessful: Marked as failed because the update remained in a transient status for too long Last failed attempt: Jun 5, 2024
<input type="checkbox"/>	FOC2716ZEMN	FOC2716ZEMN	192.168.49.101	4.4.0	Connected normally processing

## Upgrade through the Cisco Cyber Vision sensor management extension

Before updating sensors, the Cisco Cyber Vision sensor management extension must be up-to-date.

### Update the sensor management extension

The Cisco Cyber Vision sensor management extension must be up-to-date to update IOx sensors.

#### Procedure

- Step 1** Retrieve the sensor management extension file (i.e. CiscoCyberVision-sensor-management-<version>.ext) on cisco.com.
- Step 2** In Cisco Cyber Vision, navigate to Admin > Extensions.
- Step 3** Click **Update** to browse the new version of the extension file.

**Extensions**

From this page, you can manage Cyber Vision Extensions. Extensions are optional add-ons to Cyber Vision Center which provide more features, such as the management of new device types, additional detection engines, or integrations with external services.

**Update**  
Uploading... Please do not quit or refresh the page.

**Installed extensions**

Name	Version	Actions
Cyber Vision sensor management	4.1.2	<input type="button" value="Update"/> <input type="button" value="Remove"/>

### Update the sensors

#### Procedure

- Step 1** In Cisco Cyber Vision, navigate to Admin > Sensors > Sensor Explorer.

Sensors that are not up-to-date have their version displayed in red.

**Step 2** Click **Install sensor**, then **Update Cisco devices**.

Sensor Explorer

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

Install sensor Manage Cisco devices Organize

Update Cisco devices Manage credentials

Filter 0 Selected move selection to More Actions

	Label	IP Address	Version	Location	Health status
<input type="checkbox"/>	FOLDER1			Lyon	
<input type="checkbox"/>	FOLDER2			Paris	
<input type="checkbox"/>	IC3000	192.168.49.23	4.1.1+202205161124		Connected
<input type="checkbox"/>	IE3400	192.168.49.21	4.1.2+202207190948		Connected

The update Cisco devices window pops up listing all sensors that have been deployed with the sensor management extension.

UPDATE CISCO DEVICES

Only sensors deployed with the Sensor Management Extension (except IC3000) are concerned here. They appear only if there is a new version of their application available in the currently installed extension. Please select the sensors to update.

<input type="checkbox"/>	Label	IP	Version	Target
<input type="checkbox"/>	IE3400	192.168.49.21	4.1.2+202207190948	Updatable to 4.1.3+202210041846

**Step 3** Select the sensors you want to update.

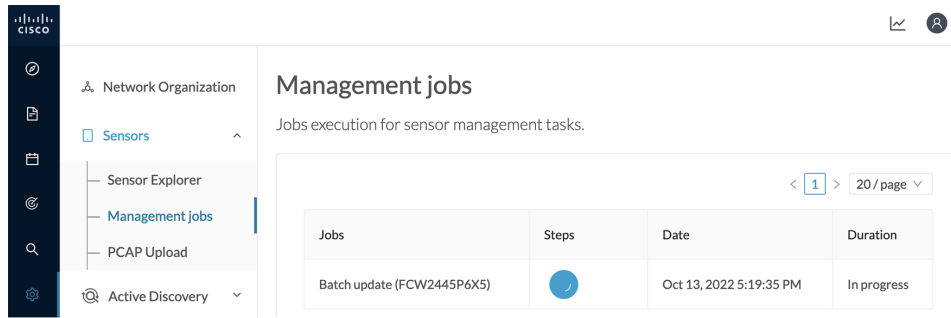
UPDATE CISCO DEVICES

Only sensors deployed with the Sensor Management Extension (except IC3000) are concerned here. They appear only if there is a new version of their application available in the currently installed extension. Please select the sensors to update.

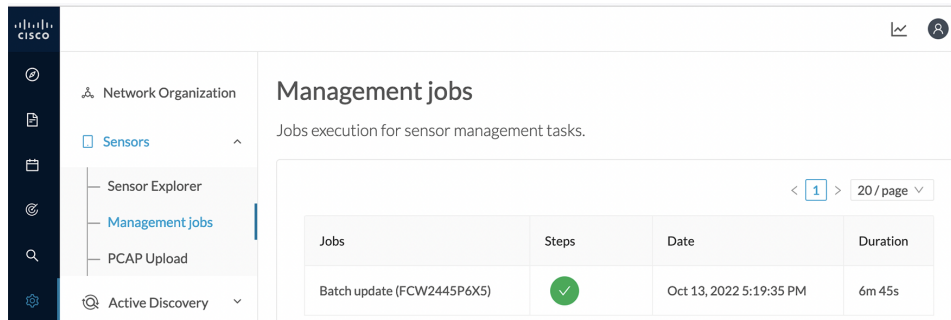
<input checked="" type="checkbox"/>	Label	IP	Version	Target
<input checked="" type="checkbox"/>	IE3400	192.168.49.21	4.1.2+202207190948	Updatable to 4.1.3+202210041846

**Step 4** Click **Update**.

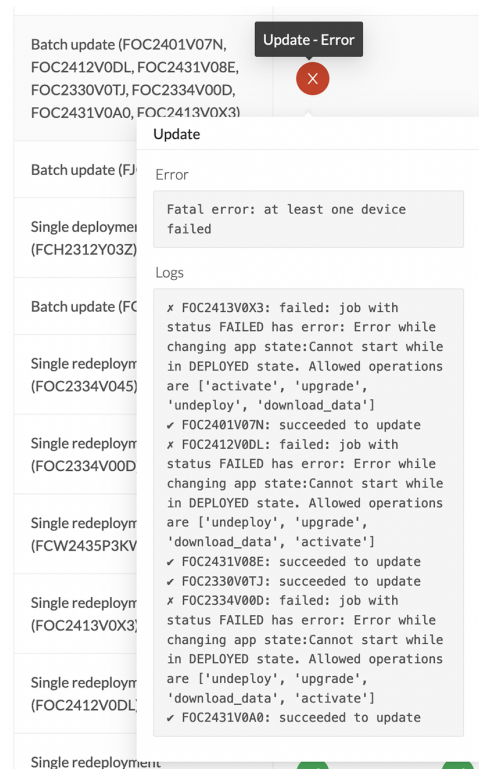
The sensors' update status appear in the Management jobs page in batches per sensor type and of maximum ten sensors per batch.



Herebelow the management jobs indicate that the batch of sensors updated successfully.



If the batch update fails, click the red update error icon to see logs.



## Upgrade through the Local Manager

The following section explains how to upgrade the sensor through the Local Manager.

In the Cisco Cyber Vision sensor administration page, the sensor is in 3.2.2. In the example below, we will upgrade the sensor to Cisco Cyber Vision version 3.2.3.

The screenshot shows the 'Sensors' page in the Cisco Cyber Vision administration interface. The left sidebar contains navigation options: System, Data management, Sensors (selected), Capture, Users, Events, API, License, LDAP Settings, Short, Integrations, and Extensions. The main content area displays a table of sensors and a detailed view for the selected sensor, FCH2312Y047.

Name	IP	Version	Status	Processing status	Active Discovery status	Capture Mode	Uptime
FOC2334V00H	192.168.69.20	3.2.3+202104292032	Connected	Pending data	Unavailable	All	4d 1h 57m 2s
FCH2312Y047	192.168.70.20	3.2.2+202103181753	Connected	Pending data	Unavailable	All	27m 37s

Details for FCH2312Y047:

- S/N: FCH2312Y047
- Name: FCH2312Y047
- IP address: 192.168.70.20
- Version: 3.2.2+202103181753
- System date (UTC): Friday, Apr 11 30, 2021 9:42 AM
- Status: Connected
- Processing status: Pending data
- Active discovery: Unavailable
- Deployment: Manual
- Uptime: 27m 37s
- Capture mode: All
- Start recording sensor
- Go to statistics

Actions available for the sensor:

- Remove
- Erase
- Get Provision...
- Capture Mode
- Enable IDS
- Shutdown
- Reboot

Global actions at the bottom:

- UPDATE CISCO DEVICES
- DEPLOY CISCO DEVICE
- INSTALL SENSOR MANUALLY
- IMPORT OFFLINE FILE

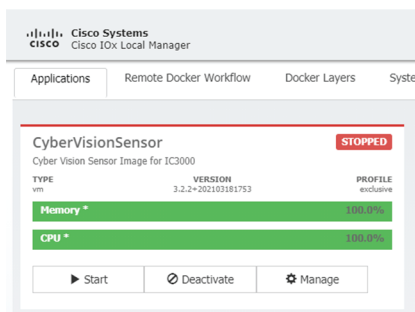
1. Access the Local Manager.
2. Stop the application.

The screenshot shows the Cisco Systems Local Manager interface. The top navigation bar includes Applications, Remote Docker Workflow, Docker Layers, System Info, and System Setting. The main content area displays the status of the 'CyberVisionSensor' application, which is currently 'RUNNING'. The application is identified as 'Cyber Vision Sensor Image for IC3000' with version '3.2.2+202103181753' and profile 'exclusive'. Resource usage is shown as Memory: 100.0% and CPU: 100.0%. A 'Stop' button is highlighted with a red box, and a 'Manage' button is also visible.

The operation takes a few moments.

The application status switches to STOPPED.





In Cisco Cyber Vision, the sensor status moves to Disconnected.

Name	IP	Version	Status	Processing status	Active Discovery status	Capture Mode <sup>®</sup>	Uptime	
▶ FOC2334V00H	192.168.69.20	3.2.3+202104292032	Connected	Pending data	Unavailable	All	4d 1h 5m 12s	
▼ FCH2312Y047	192.168.70.20	3.2.2+202103181753	Disconnected	SSH	Disconnected	Unavailable	All	N/A

S/N: FCH2312Y047  
 Name: FCH2312Y047  
 IP address: 192.168.70.20  
 Version: 3.2.2+202103181753  
 System date (UTC): Friday, April 30, 2021 9:42 AM  
 Status: Disconnected  
 Processing status: Disconnected  
 Active discovery: Unavailable  
 Deployment: Manual  
 Capture mode: All  
[Go to statistics](#)

Remove

Erase

Get Provisioni...

Capture Mode

Enable IDS

Shutdown

Reboot

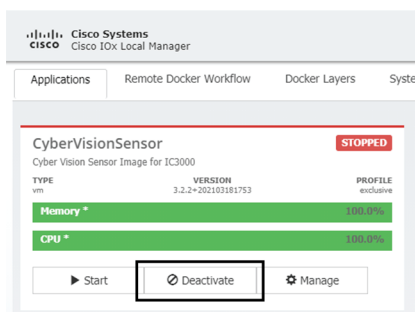
+ UPDATE CISCO DEVICES

+ DEPLOY CISCO DEVICE

+ INSTALL SENSOR MANUALLY

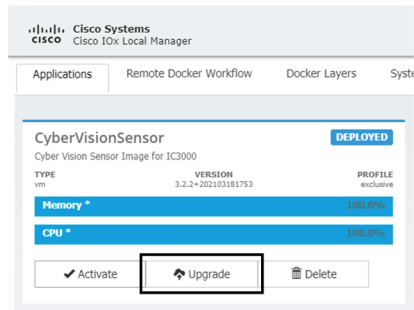
IMPORT OFFLINE FILE

- In the Local Manager, click the Deactivate button.

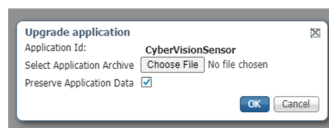


The application status moves to "DEPLOYED".

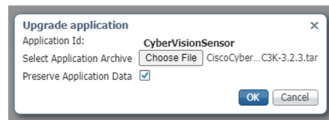
- Click Upgrade.



The pop up Upgrade application appears.

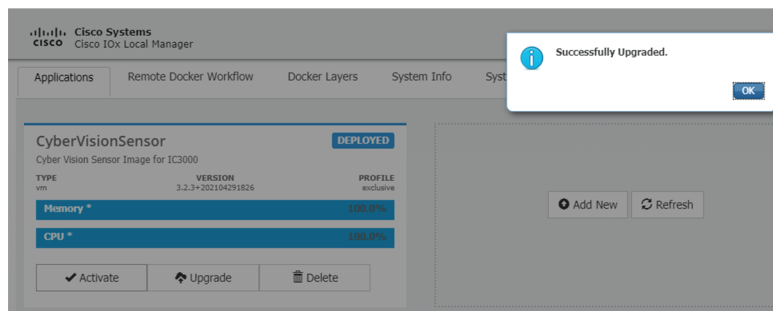


5. Select the option Preserve Application Data.
6. Select the new version of the application archive file.  
e.g. Cisco-Cyber-Vision-IOx-IC3K-3.2.3.tar



The operation takes a few moments.

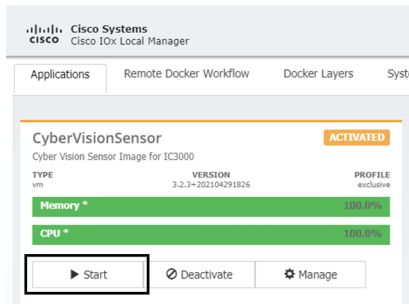
A message indicating that the sensor has been successfully upgraded is displayed.



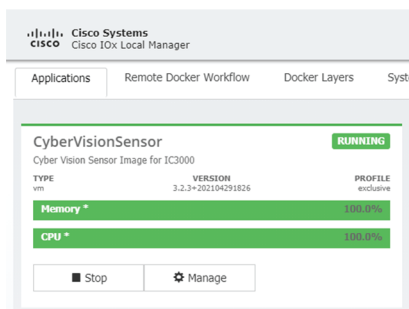
7. Check the number of the new version.
8. Click Activate.
9. Check configurations.

**It can happen that network configurations are lost during the upgrade. If they are, refer to [Configure the sensor virtual application](#) and do as explained.**

10. Click the Activate App button.  
The application status moves to ACTIVATED.
11. Click the Start button.



The application status changes to RUNNING.



In Cisco Cyber Vision, the sensor is upgraded from version 3.2.2 to 3.2.3 and its status moves to Connected.

Name	IP	Version	Status	Processing status	Active Discovery status	Capture Mode <sup>®</sup>	Uptime
▶ FOC2334V00H	192.168.69.20	3.2.3+202104292032	Connected	Pending data	Unavailable	All	4d 2h 17m 23s
▼ FCH2312Y047	192.168.70.20	3.2.3+202104291826	Connected	Pending data	Unavailable	All	1m 22s

S/N: FCH2312Y047  
 Name: FCH2312Y047  
 IP address: 192.168.70.20  
 Version: 3.2.3+202104291826  
 System date (UTC): Friday, Apr 11 30, 2021 10:02 AM  
 Status: Connected  
 Processing status: Pending data  
 Active discovery: Unavailable  
 Deployment: Manual  
 Uptime: 1m 22s  
 Capture mode: All  
 ● Start recording sensor  
 📊 Go to statistics

Remove
Erase
Get Provision...
Capture Mode
Enable IDS
Shutdown
Reboot

UPDATE CISCO DEVICES
DEPLOY CISCO DEVICE
INSTALL SENSOR MANUALLY
IMPORT OFFLINE FILE

# Certificate renewal

The certificates generated by Cisco Cyber Vision have a validity of two years.

Sensor certificates must be renewed manually. The procedure used differs whether the certificate is already expired or not and whether the sensor has been deployed using the sensor management extension.

- If the certificate is still valid, refer to [Sensor certificate renewal, on page 16](#).
- If the sensor was deployed with the sensor management extension, refer to [Sensor certificate renewal, on page 16](#).
- If the certificate is outdated, and was deployed manually, refer to [Sensor certificate renewal through the Local Manager, on page 19](#).

## Sensor certificate renewal

The following procedure applies to:

- Sensors deployed with the sensor management extension, whether the certificate expiration date is exceeded or not (i.e. the deployment method is indicated in the sensor's right side panel).

The screenshot shows the 'Sensor Explorer' interface. At the top right, there is a notification for 'System issues Actions required'. The main title is 'Sensor Explorer'. Below the title, there is a message: 'From this page, you can explore and manage sensors and sensors folders. Sensors are automatically created when a sensor connects for the first time, you must authorize it so that it can be managed.' A yellow warning box indicates '2 sensor certificates expired'. There are three action buttons: 'Install sensor', 'Manage Cisco devices', and 'Organize'. Below this is a table titled 'Folders and sensors (3)'. The table has columns for 'Label', 'IP Address', and 'Version'. The first row is selected. To the right of the table, there is a detailed view for the selected sensor 'FOC2330V0T0'. This view includes fields for Label, Serial Number, IP address, Version, System date, and Deployment (Sensor Management Extension). It also shows System Health (Status: Connected, Processing status: Normally processing, Uptime: 18 hours) and several action buttons: 'Go to statistics', 'Start Recording', 'Move to', 'Capture mode', 'Redeploy', and 'Uninstall'.

Label	IP Address	Version
FCH2309Y01Z	192.168.49.23	4.2.2+202306261711
FCW2445P6X5	192.168.49.21	4.2.2+202306261519
FOC2330V0T0	192.168.49.41	4.2.2+202306261519

Details for FOC2330V0T0:

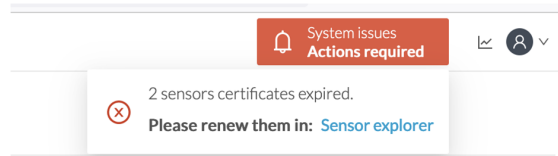
- Label: FOC2330V0T0
- Serial Number: FOC2330V0T0
- IP address: 192.168.49.41
- Version: 4.2.2+202306261519
- System date: Jul 6, 2023 11:26:00 AM
- Deployment: Sensor Management Extension
- Active Discovery: Unavailable
- Capture mode: All
- System Health Status: Connected
- Processing status: Normally processing
- Uptime: 18 hours

- In the case of sensors deployed manually, it only applies if the sensors certificate have not expired yet (i.e. the sensor certificate status is Expire Soon).

If sensors have been deployed manually and the certificate expiration date is exceeded, refer to [Sensor certificate renewal through the Local Manager, on page 19](#).

## Procedure

**Step 1** In Cisco Cyber Vision, navigate to Admin > Sensors > Sensor Explorer or click the top banner alert to access the Sensor Explorer page directly.



Another alert is displayed.

	Label	IP Address	Version	Location	Health status	Processing status
<input type="checkbox"/>	FCH2309Y01Z	192.168.49.23	4.2.2+202306261711		Connected	Normally pro
<input type="checkbox"/>	FCW2445P6X5	192.168.49.21	4.2.2+202306261519		Connected	Normally pro
<input type="checkbox"/>	FOC2330V0T0	192.168.49.41	4.2.2+202306261519		Connected	Normally pro

**Step 2** Click **Manage certificates** in the alert or **Manage Cisco devices > Manage certificates**.

System issues  
Actions required
🔔
👤

## Sensor Explorer

From this page, you can explore and manage sensors and sensors folders. Sensors can be remotely and securely rebooted, shut down, and erased. When a sensor connects for the first time, you must authorize it so the Center can receive its data.

⚠️ 2 sensor certificates expired and 1 will expire soon
Manage certificates
✕

+ Install sensor
🔧 Manage Cisco devices
📁 Organize

Folders and sensors

🔄 Update Cisco devices  
🔒 Manage credentials  
🛡️ Manage certificates

More Actions

Filter
0 Selected
As of: Jul 6, 2023 11:26 AM
🔄

<input type="checkbox"/>	Label	IP Address	Version	Location	Health status	Processing status
<input type="checkbox"/>						

The **Manage sensors certificates** window opens.

Actions required
✕

### MANAGE SENSORS CERTIFICATES

Select a sensor to renew its certificate.  
If a sensor cannot be selected, it means that its certificate cannot be renewed automatically.

Filter

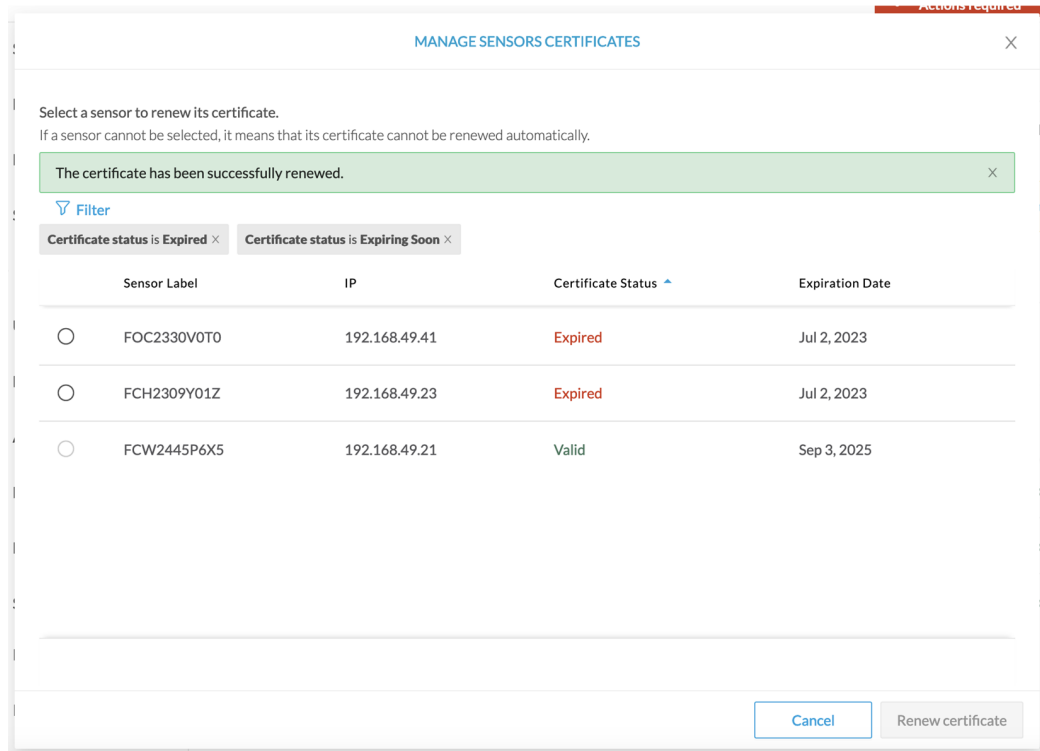
Certificate status is Expired ✕
Certificate status is Expiring Soon ✕

	Sensor Label	IP	Certificate Status	Expiration Date
<input type="radio"/>	FCH2309Y01Z	192.168.49.23	Expired	Jul 2, 2023
<input type="radio"/>	FOC2330V0T0	192.168.49.41	Expired	Jul 2, 2023
<input checked="" type="radio"/>	FCW2445P6X5	192.168.49.21	Expiring Soon	Jul 14, 2023

Cancel
Renew certificate

**Step 3** Select the sensor with the status Expiring Soon.

**Step 4** Click **Renew certificate**.



The certificate is renewed and automatically sent to the sensor. Its status switches to Valid and the new expiration date appears.

## Sensor certificate renewal through the Local Manager

In case of certificate expiration, communication with the sensor is no longer possible if it was deployed manually (i.e. without the sensor management extension). In this case, the certificate is renewed by sending it to the sensor manually. As the certificate is part of the provisioning package, the action consists in generating the provisioning package and sending it to the sensor application through the Local Manager.

The screenshot shows the Cisco Sensor Explorer interface. At the top right, there is a red notification banner that says "System issues Action required". The main header is "Sensor Explorer" with a sub-header "FCH2309Y01Z". Below the header, there is a message: "From this page, you can explore and manage sensors and sensors folders. Sensor erased. When a sensor connects for the first time, you must authorize it so the C...". A yellow warning box indicates "1 sensor certificate expired". Below this, there are three buttons: "Install sensor", "Manage Cisco devices", and "Organize". A section titled "Folders and sensors (3)" contains a table with columns for Label, IP Address, and Version. The table lists three sensors: FCH2309Y01Z, FCW2445P6X5, and FOC2330V0T0. To the right of the table, there is a detailed view for the selected sensor FCH2309Y01Z, showing its Label, Serial Number, IP address, Version, System date, Deployment (Manual), Active Discovery (Disabled), Capture mode (All), System Health (Status: Connected, Processing status: Normally processing, Uptime: 18 hours), and various action buttons like "Go to statistics", "Start Recording", "Move to", "Download package", "Capture mode", "Enable IDS", "Reboot", "Shutdown", and "Uninstall".

## Procedure

### Step 1

In Cisco Cyber Vision, navigate to Admin > Sensors > Sensor Explorer.

### Step 2

Click **Manage Certificates**.

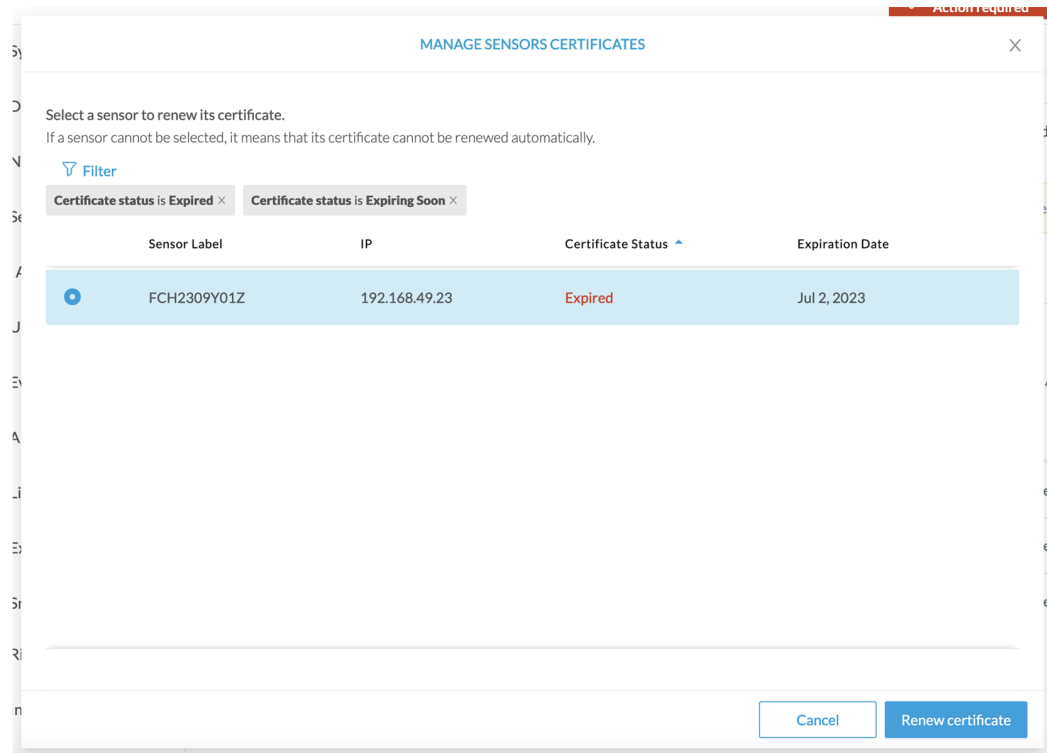
The Manage sensors certificates window appears.

The screenshot shows the "MANAGE SENSORS CERTIFICATES" window. It has a close button (X) in the top right corner. Below the title bar, there is a message: "Select a sensor to renew its certificate. If a sensor cannot be selected, it means that its certificate cannot be renewed automatically." There is a "Filter" button and two filter tags: "Certificate status is Expired" and "Certificate status is Expiring Soon". Below the filters is a table with columns: Sensor Label, IP, Certificate Status, and Expiration Date. The table contains one row for sensor FCH2309Y01Z with IP 192.168.49.23 and Certificate Status "Expired". The Expiration Date is "Jul 2, 2023".

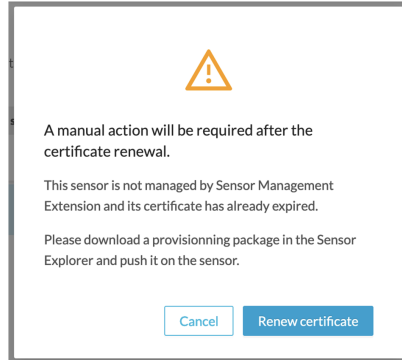
### Step 3

Select the sensor and click **Renew Certificate**.





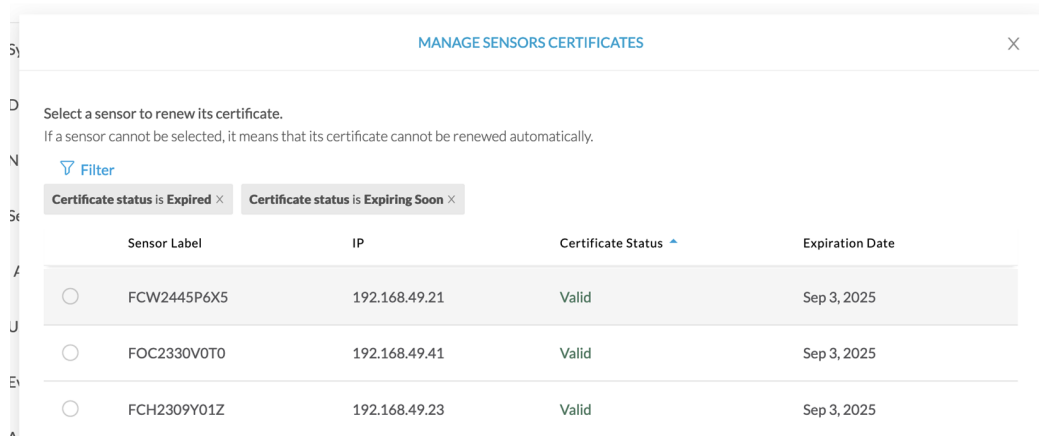
A message is displayed.



#### Step 4

Click **Renew certificate** again.

The sensor certificate status appears as valid.



**Step 5** Close the Manage sensors certificates window.

The sensor's health and processing status appear as Disconnected.

## Sensor Explorer

From this page, you can explore and manage sensors and sensors folders. Sensors can be remotely and securely rebooted, shut down, and erased. When a sensor connects for the first time, you must authorize it so the Center can receive its data.

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### Folders and sensors (3)

[Filter](#) 0 Selected Move selection to [More Actions](#) As of: Jul 6, 2023 11:41 AM [Refresh](#)

<input type="checkbox"/>	Label	IP Address	Version	Location	Health status	Processing status	Active Di
<input type="checkbox"/>	⇒ FCH2309Y01Z	192.168.49.23	4.2.2+202306261711		Disconnected	Disconnected	Disa
<input type="checkbox"/>	⇒ FCW2445P6X5	192.168.49.21	4.2.2+202306261519		Connected	Normally processing	Una
<input type="checkbox"/>	⇒ FOC2330V0T0	192.168.49.41	4.2.2+202306261519		Connected	Normally processing	Una

**Step 6** Click the sensor in the list.

Its right side panel opens.

**Step 7** Click the **Download package** button.

The screenshot shows the 'Sensor Explorer' interface. On the left, there's a list of sensors under 'Folders and sensors (3)'. The sensors listed are:

Label	IP Address	Version
FCH2309Y01Z	192.168.49.23	4.2.2+202306261711
FCW2445P6X5	192.168.49.21	4.2.2+202306261519
FOC2330V0T0	192.168.49.41	4.2.2+202306261519

On the right, the detailed view for sensor 'FCH2309Y01Z' is shown. It includes the following information:

- Label: FCH2309Y01Z
- Serial Number: FCH2309Y01Z
- IP address: 192.168.49.23
- Version: 4.2.2+202306261711
- System date: Jul 6, 2023 11:36:49 AM
- Deployment: Manual
- Active Discovery: Disabled
- Capture mode: All
- System Health: Status: **Disconnected**, Processing status: **Disconnected**, Uptime: N/A

Below the details, there are several action buttons: 'Move to', 'Download package' (highlighted with a red box), 'Enable IDS', 'Reboot', 'Shutdown', and 'Uninstall'.

**Step 8** Type the Local Manager's password or set it if not already done. Make sure to keep this piece of information stored as it will be asked to access IOx Local Manager and for further troubleshooting and configuration purposes.

The screenshot shows a 'DOWNLOAD PACKAGE' dialog box. It contains the following text:

The provisioning package should be placed in the root directory of USB mass storage, and plugged in the IC3000 / Sensor before powering it up or added in the right location of your IOx Application.

There are two password input fields: 'Password\*' and 'Confirm password\*'. Below the fields is a progress indicator showing a green bar and the text 'Good'. At the bottom right, there is a 'Download package' button.

**Step 9** Click **Download package**.

**Step 10** Import the provisioning package in the Local Manager. To do so, refer to [Import the provisioning package](#).

**Step 11** In the sensor's CLI, type the following command to enroll the sensor:

```
sbs-sensor-enroll-offline -fp /data/iox/appdata/cybervision-sensor-config.zip
```

**Step 12** The sensor's health status switches to Connected and its processing status to Normally processing.



## Sensor Explorer

From this page, you can explore and manage sensors and sensors folders. Sensors can be remotely and securely rebooted, shut down, and erased. When a sensor 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 (3)

Filter
 0 Selected
Move selection to
[More Actions](#) 
As of: Jul 6, 2023 11:56 AM

<input type="checkbox"/>	Label	IP Address	Version	Location	Health status	Processing status	Active Di:
<input type="checkbox"/>	FCH2309Y01Z	192.168.49.23	4.2.2+202306261711		Connected	Normally processing	Disal
<input type="checkbox"/>	FCW2445P6X5	192.168.49.21	4.2.2+202306261519		Connected	Normally processing	Unav
<input type="checkbox"/>	FOC2330V0T0	192.168.49.41	4.2.2+202306261519		Connected	Normally processing	Unav