



Release Notes for Cisco Cyber Vision

Release 3.2.2

Users upgrading to 3.2.x from previous versions should read the upgrade procedures carefully.

Compatible device list	2
Links	3
Software Download	3
Related Documentation	4
Cisco Cyber Vision 3.2.0, 3.2.1 and 3.2.2 update procedure	5
Center updates	5
Sensor updates – IC3000 Sensor and Sentryo SENSOR3/5/7 cases	5
Sensor updates – Cisco IOx sensor cases	5
Cisco Cyber Vision 3.2.0, 3.2.1 and 3.2.2 important changes	6
Communication port change	6
API authentication	6
Cisco Cyber Vision 3.2.1 important change	6
Center DPI Change	6
Cisco Cyber Vision 3.2.2 important change	6
Cisco Smart Agent Certificates Update	6
Cisco Cyber Vision new features and improvements	7
Cyber Vision Sensor Management Extension compatibility with IE3x00 V17.5.x	7
Cisco Cyber Vision enhancements and bug fixed	8
Cisco Cyber open CDETS and known issues	8

Compatible device list

Center	Description
VMware ESXi OVA center	VMware ESXi 6.x or later
Windows Server Hyper-V VHDX center	Microsoft Windows Server Hyper-V version 2016 or later
Cisco UCS C220 M5 CV-CNTR-M5S5	Cyber Vision Center hardware appliance (Cisco UCS® C220 M5 Rack Server) - 16 core CPU, 64 GB RAM, 800GB drives, Scale: 20K components
Cisco UCS C220 M5 CV-CNTR-M5S3	Cyber Vision Center hardware appliance (Cisco UCS® C220 M5 Rack Server) - 12 core CPU, 32 GB RAM, 480GB drives
Sentryo CENTER10	Sentryo CENTER10 hardware appliance
Sentryo CENTER30	Sentryo CENTER30 hardware appliance
Sensor	Description
Cisco IC3000	Cyber Vision Sensor hardware appliance
Cisco Catalyst IE3400	Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3400 Industrial Ethernet switches
Cisco Catalyst IE3300 10G	Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3300 Industrial Ethernet switches with 10G ports
Cisco IR1101	Cyber Vision Sensor IOx application hosted in Cisco IR1101 Series Industrial Integrated Services Routers
Cisco Catalyst 9300, 9400	Cyber Vision Sensor IOx application hosted in Catalyst 9300 and 9400 Series switches
Sentryo SENSOR3	Sentryo SENSOR3 hardware appliance
Sentryo SENSOR5	Sentryo SENSOR5 hardware appliance
Sentryo SENSOR7	Sentryo SENSOR7 hardware appliance

Links

Software Download

The files below can be find following this link: <https://software.cisco.com/download/home/286325414/type>

Center	Description
CiscoCyberVision-center-3.2.2.ova	VMWare OVA file, for Center setup
CiscoCyberVision-center-with-DPI-3.2.2.ova	VMWare OVA file, for Center with DPI setup
CiscoCyberVision-center-3.2.2.vhdx	Hyper-V VHDX file, for Center setup
CiscoCyberVision-sensor-management-3.2.2.ext	Sensor Management extension installation file
Sensor	Description
CiscoCyberVision-IOx-aarch64-3.2.2.tar	IE3x00, IR1101 sensor installation and update file
CiscoCyberVision-IOx-Active-Discovery-aarch64-3.2.2.tar	IE3x00 sensor installation and update file with the active discovery
CiscoCyberVision-IOx-IC3K-3.2.2.tar	IC3000 sensor installation and update file
CiscoCyberVision-IOx-x86-64-3.2.2.tar	Catalyst 9x00 sensor installation and update file
CiscoCyberVision-IOx-Active-Discovery-86-64-3.2.2.tar	Catalyst 9x00 sensor installation and update file with Active Discovery
Updates	Description
CiscoCyberVision-sysupgrade-3.2.2	Center and Sensor update file for upgrade from release < 3.2 to release 3.2.x
CiscoCyberVision-sysupgrade-sensor-3.2.2	Sensor update file for embedded sensor in IC3000 and Sentryo SENSOR3, 5 and 7 for upgrade from release < 3.2 to release 3.2.x
CiscoCyberVision-Embedded-KDB-3.2.2.dat	KnowledgeDB embedded in Cisco Cyber Vision 3.2.2
CiscoCyberVision-update-center-3.2.2.dat	Center update file for upgrade from release 3.2.0 or 3.2.1 to release 3.2.2
CiscoCyberVision-update-sensor-3.2.2.dat	Sentryo Sensor3, 5, 7 update file for upgrade from release 3.2.0 or 3.2.1 to release 3.2.2
CiscoCyberVision-update-combined-3.2.2.dat	Center and Legacy Sensor update file from GUI for upgrade from release 3.2.0 or 3.2.1 to release 3.2.2

Related Documentation

Cisco Cyber Vision documentation: <https://www.cisco.com/c/en/us/support/security/cyber-vision/series.html>

- Cisco Cyber Vision GUI User Guide:

https://www.cisco.com/c/dam/en/us/td/docs/security/cyber_vision/Cisco_Cyber_Vision_GUI_User_Guide_3_2_0.pdf

- Cisco Cyber Vision Network Sensor Installation Guide for Cisco IE3300 10G, IE3400 and Catalyst 9300:

https://www.cisco.com/c/dam/en/us/td/docs/security/cyber_vision/Cisco_Cyber_Vision_Network_Sensor_Installation_Guide_for_Cisco_IE3300_10G_Cisco_IE3400_and_Cisco_Catalyst_9300_3_2_0.pdf

- Cisco Cyber Vision Network Sensor Installation Guide for Cisco IR1101:

https://www.cisco.com/c/dam/en/us/td/docs/security/cyber_vision/Cisco_Cyber_Vision_Network_Sensor_Installation_Guide_for_Cisco_IR1101_3_1_1_1.pdf

- Cisco Cyber Vision Network Sensor Installation Guide for Cisco IC3000:

https://www.cisco.com/c/dam/en/us/td/docs/security/cyber_vision/Cisco_Cyber_Vision_Network_Sensor_Installation_Guide_for_Cisco_IC3000_3_2_0.pdf

- Cisco Cyber Vision IC3000 Troubleshooting Guide:

https://www.cisco.com/c/dam/en/us/td/docs/security/cyber_vision/Cisco_Cyber_Vision_IC3000_Troubleshooting_Guide_Release_3_0_2.pdf

- Cisco Cyber Vision Center Appliance Installation Guide:

https://www.cisco.com/c/dam/en/us/td/docs/security/cyber_vision/Cisco_Cyber_Vision_Center_Appliance_Installation_Guide_3_2_0.pdf

- Cisco Cyber Vision Center VM Installation Guide:

https://www.cisco.com/c/dam/en/us/td/docs/security/cyber_vision/Cisco_Cyber_Vision_Center_VM_Installation_Guide_3_2_0.pdf

- Cisco Cyber Vision Integration Guide, Integrating Cisco Cyber Vision with Cisco Identify Services Engine (ISE) via pxGrid:

https://www.cisco.com/c/dam/en/us/td/docs/security/cyber_vision/Integrating-Cisco-Cyber-Vision-with-Cisco-Identify-Services-Engine-via-pxGrid.pdf

- Cisco Cyber Vision REST API User Guide, Release 3.1.0:

https://www.cisco.com/c/dam/en/us/td/docs/security/cyber_vision/Cisco_Cyber_Vision_REST-API_User_Guide_Release_3_1_0.pdf

Cisco Cyber Vision 3.2.0, 3.2.1 and 3.2.2 update procedure

Cisco Cyber Vision 3.2.x includes many enhancements and improvements which require changes to the underlying architecture when upgrading from release 3.1.x to release 3.2.1. These changes will affect both Centers and sensors, excluding IOx sensors (which are embedded in Catalyst 9300, 9400, IE3400, IE3300 10G, and IR1101).

These partition changes require specific update packages called “CiscoCyberVision-sysupgrade”, which will replace the usual update packages and procedures.

Center updates

All 3.1.x versions can be directly upgraded in release 3.2.x with the usage of the right upgrade package called “CiscoCyberVision-sysupgrade-3.2.2”.

Older versions (3.0.x) need to be upgraded first to release 3.1.2, then to 3.2.2.

The upgrade from 3.1.x to 3.2.2 needs to be launched from the Center Command Line Interface (CLI):

1. Send the package to the `/data/tmp` folder of the Center by using the `'scp'` command.
2. Launch the update with the following command:

```
bash /data/tmp/CiscoCyberVision-sysupgrade-3.2.2
```

Sensor updates – IC3000 Sensor and Sentryo SENSOR3/5/7 cases

All 3.1.x versions can be directly upgraded in release 3.2.x with the usage of the right upgrade package called “CiscoCyberVision-sysupgrade-sensor-3.2.2”, previous versions need to be first updated to 3.1.2.

The upgrade needs to be launched from the sensor Command Line Interface (CLI):

1. Send the package to the `/data/tmp` folder of the sensor by using the `'scp'` command.
2. Launch the update with the following command:

```
bash /data/tmp/CiscoCyberVision-sysupgrade-sensor-3.2.2
```

Sensor updates – Cisco IOx sensor cases

Cisco IOx sensors can be updated with the standard methods described in the relevant user manuals:

1. Cisco Cyber Vision Sensor Extension update
2. Local Manager update
3. CLI update

Cisco Cyber Vision 3.2.0, 3.2.1 and 3.2.2 important changes

Communication port change

An important change was made on the communication between the sensors and the Center. In previous versions, all sensor communications were multiplexed on port TCP/443. Starting with version 3.2.0, sensors will also use port TCP/5671, in addition to port TCP/443.

In case of network architecture with firewalls between the sensors and the Center, rules will have to be updated to authorize this new port alongside port TCP/443.

API authentication

A HTTP header authentication mechanism has been added to both API v1 and v3.

Token authentication through the URL is not supported with API v3.

Token authentication through the URL is now deprecated with API v1 and will be removed in future releases.

Cisco Cyber Vision 3.2.1 important change

Center DPI Change

The update from Cisco Cyber Vision release 3.2.0 to 3.2.1 will delete all center DPI already configured. Some configuration files were changed to ensure compatibility with future releases which prevents forward compatibility for this minor release. The Center DPI needs to be recreated in the release 3.2.1.

Cisco Cyber Vision 3.2.2 important change

Cisco Smart Agent Certificates Update

All Cisco Cyber Vision releases inferior to 3.2.2 contain a version of the Cisco Smart Agent with some certificates which will be revoked. Release 3.2.2 and 3.0.6 bring a new version of the Cisco Smart Agent with new certificates.

If the upgrade to release 3.2.2 or 3.0.6 is not done, users may experience slowness related to licensing requests.

Cisco Cyber Vision new features and improvements

Cyber Vision Sensor Management Extension compatibility with IE3x00 V17.5.x

Cisco Catalyst IE3400 and IE3300 10G starting from release 17.5.1 will now support both platform and IOx usages on SD Card. 2 partitions will be made with different filesystem formats:

- Partition 1 (FAT32 format): will be used for platform images, configs, logs.
- Partition 2 (Ext4 format): will be used by IOx and apps.

Cyber Vision Sensor Management Extension in release below 3.2.2 asks for too much memory size and will not support release 17.5.1. In Cyber Vision release 3.2.2 this size was changed to be compatible with platform version 17.5.1.

Cisco Cyber Vision enhancements and bug fixed

Issues ID / CDETS	Description
#5181 /	IE3400 SD card partition size will change in IE3x00 version 17.5.1, Cisco Cyber Vision Sensor Extension Management was changed to limit the sensor application disk size.
#7079 /	Embedded certificate in Cisco Smart Agent component will be revoked. A new version of the Cisco Smart Agent was added with new certificate.
#7083 /	Cisco Cyber Vision changes in the graphical application related to license. Correction of the point-of-sale information (customer information containing a space is not allowed, deleting customer information does not work, customer information does not survive a reboot).
#7376 /	Cisco Cyber Vision Center: enable I40E for Intel XL710 controllers
#7247 /	Cisco Cyber Vision Sensor Extension Management will now take only 90% of the RAM given by the IC3000 to avoid OOM Killer to kill the sensor application.

Cisco Cyber open CDETS and known issues

Issues ID / CDETS	Component	Description
#5695 / CSCvv49682	IC3000	Cisco Cyber Vision Sensor installation with extension fails with IC3000 release 1.3.1. Local Manager installation or USB installation should be used.
# - / CSCvv48350	IC3000	Multicast packets are dropped by the platform before Cisco Cyber Vision Application.
# - / CSCvx20904	Sensor Management Extension	Sensor Management Extension - Unable to change password after application deployed.