

Release Notes for Cisco Cyber Vision Release 4.1.7

For users upgrading to 4.1.7 from previous versions, please carefully read the Cisco Cyber Vision 4.1.7 update procedure.

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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
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
AWS – Center AMI	Amazon Web Services center image
Azure – Center plan	Microsoft Azure center plan
Sentryo CENTER10	Sentryo CENTER10 hardware appliance
Sentryo CENTER30	Sentryo CENTER30 hardware appliance
Sensor	Description
Cisco IC3000	Cyber Vision Sensor hardware appliance
Cisco IC3000 Cisco Catalyst IE3400	Cyber Vision Sensor hardware appliance Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3400 Industrial Ethernet switches
	Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3400
Cisco Catalyst IE3400	Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3400 Industrial Ethernet switches Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3300
Cisco Catalyst IE3400 Cisco Catalyst IE3300 10G	Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3400 Industrial Ethernet switches Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3300 Industrial Ethernet switches with 10G ports Cyber Vision Sensor IOx application hosted in Cisco IR1101 Series
Cisco Catalyst IE3400 Cisco Catalyst IE3300 10G Cisco IR1101	Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3400 Industrial Ethernet switches Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3300 Industrial Ethernet switches with 10G ports Cyber Vision Sensor IOx application hosted in Cisco IR1101 Series Industrial Integrated Services Routers Cyber Vision Sensor IOx application hosted in Cisco Catalyst IR8300 Rugged
Cisco Catalyst IE3400 Cisco Catalyst IE3300 10G Cisco IR1101 Cisco Catalyst IR8300	Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3400 Industrial Ethernet switches Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3300 Industrial Ethernet switches with 10G ports Cyber Vision Sensor IOx application hosted in Cisco IR1101 Series Industrial Integrated Services Routers Cyber Vision Sensor IOx application hosted in Cisco Catalyst IR8300 Rugged Series Routers Cyber Vision Sensor IOx application hosted in Catalyst 9300, 9400 Series
Cisco Catalyst IE3400 Cisco Catalyst IE3300 10G Cisco IR1101 Cisco Catalyst IR8300 Cisco Catalyst 9300, 9400	Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3400 Industrial Ethernet switches Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE3300 Industrial Ethernet switches with 10G ports Cyber Vision Sensor IOx application hosted in Cisco IR1101 Series Industrial Integrated Services Routers Cyber Vision Sensor IOx application hosted in Cisco Catalyst IR8300 Rugged Series Routers Cyber Vision Sensor IOx application hosted in Catalyst 9300, 9400 Series switches

Cisco Cyber Vision 4.1.7 update procedure

Cisco Cyber Vision 4.1.7 update procedure will depend on the architecture deployed and the tool used to deploy it.

Upgrade Path

Upgrade Path to Cisco Cyber Vision 4.1.7

Current Software Release	Upgrade Path to Release 4.1.7
If version prior to 3.2.4	Upgrade first to 3.2.4, then to 4.0.0, and to 4.1.7
Version 3.2.4	Upgrade first to 4.0.0, then to 4.1.7
Version 4.0.0 to 4.1.6	Upgrade directly to Release 4.1.7

Compatibility Guidelines

There is downward compatibility of one version between the Global Center and the Center with sync and sensors.

- Global Center (Version N): Compatible with Centers with sync with versions N and N-1.
- e.g. Global Center version 4.1.0 can manage local Centers with versions 4.1.0 and 4.0.3.
- Center with sync (Version N): Compatible with sensors with versions N and N-1.
 e.g. Center with sync version 4.1.0 can manage sensors with versions 4.1.0 and 4.0.3.

Data purge

The Center database in 4.0.0, 4.0.1, 4.0.2 or 4.0.3 will be migrated to the new 4.1.x schema. All components, activities, flows, events, etc. will be migrated.

The new data retention policies introduced in 4.0.0 are still valid in 4.1.x. Once migrated, the following expiration settings will be applied, and the system will run the purge process unless the configuration is modified within 2 days:

- Events after 6 months.
- Flows after 6 months.
- Variables after 2 years.

Center updates

Architecture with Global Center

<u>Preliminary checks:</u> it is highly recommended that you check the health of all Centers connected to the Global Center and of the Global Center itself before proceeding to the update.

To do this check, it is recommended to use an SSH connection to the Center and to type the following command:

systemctl --failed

The number of listed sbs-* units should be 0, otherwise the failure needs to be fixed before the update.

Cisco Cyber Vision system check - 0 failure

```
root@Center21:~# systemctl --failed
0 loaded units listed.
root@Center21:~#
```

All sbs services need to be running in a normal state before performing an update. If any is listed as failed it must be fixed prior upgrading.

Cisco Cyber Vision system check – example of failure

```
root@Center21:~# systemctl --failed

UNIT LOAD ACTIVE SUB DESCRIPTION

sbs-marmotd.service loaded failed failed marmotd persistence service

LOAD = Reflects whether the unit definition was properly loaded.

ACTIVE = The high-level unit activation state, i.e. generalization of SUB.

SUB = The low-level unit activation state, values depend on unit type.

1 loaded units listed.

root@Center21:~#
```

Rebooting of the Center most often solves the issue. If not, please contact the support.

In the case of a distributed architecture, the following steps need to be followed:

- 1. Update the Global Center:
 - a. Either using the Graphical User Interface:
 - o File= CiscoCyberVision-update-combined-4.1.7.dat
 - Navigate to Admin > System, use the System Update button and browse and select the update file.
 - b. Or using the Command Line Interface (CLI):
 - o File= CiscoCyberVision-update-center-4.1.7.dat
 - o Launch the update with the following command:

sbs-update install /data/tmp/CiscoCyberVision-update-center-4.1.7.dat

- 2. Update the Centers connected to the Global Center with the same procedure used for the Global Center (User Interface or CLI).
- 3. Update the sensors from their corresponding Center (not from the Global Center):
 - a. Hardware sensors:
 - If you used the combined file to update the Center which owns the sensor, and the SSH connection from the Center to the allowed sensor, the hardware sensors (IC3000 and Sentryo SENSOR's) were updated at the same time.
 - ii. If the Cisco IC3000 sensor was deployed using the Sensor management extension, it can be upgraded by deploying it again.
 - iii. If not, the update needs to be done from the Command Line Interface (CLI):
 - File= CiscoCyberVision-update-sensor-4.1.7.dat
 - Launch the update with the following command:

sbs-update install /data/tmp/CiscoCyberVision-update-sensor-4.1.7.dat

You can check the sensor version on the Administration / Sensor Explorer page, to make sure that the version is 4.1.7.

Note: Cisco Cyber Vision Sensor application should not be updated from the IC3000 Local Manager because the configuration will be lost. In case this is done, the sensor enrollment package needs to be deployed again.

b. IOx sensors:

- i. If you have installed the sensors with the sensor management extension, first upgrade the extension and then update the sensors.
 - File = CiscoCyberVision-sensor-management-4.1.7.ext
 - Navigate to Admin > Extensions. In the Actions column, use the update button and browse to select the update file.
 - The Cisco Cyber Vision sensor management extension can also be updated from the CLI with the command:

sbs-extension upgrade /data/tmp/CiscoCyberVision-sensor-management-4.1.7.ext

- ii. Then all sensors need to be updated with the extension, to do so, access the sensor administration page, and use the menu "Manage Cisco devices" / "Update Cisco devices" or use the redeploy. A complete procedure is available in the document (part "Cisco Cyber Vision new features and improvements") or in all sensor deployment guides version 4.1.7 minimum.
- iii. If you have not installed the sensor with the sensor management extension, the upgrade of the sensor can be performed with the sensor package from the platform Local Manager or from the platform Command Line. This procedure is described in the corresponding sensors installation guides.
 - IE3x00 and IR1101 files = CiscoCyberVision-IOx-aarch64-4.1.7.tar or CiscoCyberVision-IOx-Active-Discovery-aarch64--4.1.7.tar
 - Catalyst 9300 and 9400 and IR8340 files = CiscoCyberVision-IOx-x86-64-4.1.7.tar or CiscoCyberVision-IOx-Active-Discovery-x86-64-4.1.7.tar.

Important remark regarding CiscoCyberVision-IOx-x86-64 sensor application update:

The sensor update through the Local Manager of a Catalyst 9300, 9400 or IR8340 files is not possible from a release 4.1.2 (or lower) to a release 4.1.3 (or higher) due to the addition of the rspan compatibility. The sensor application needs to be redeployed and the enrollment package uploaded again.

Architecture with one Center

In the case of a single Center, the following steps need to be followed:

- 1. Update the Center:
 - a. Either using the Graphical User Interface:
 - File= CiscoCyberVision-update-combined-4.1.7.dat
 - Navigate to Admin > System, use the System Update button, and browse and select the update file.
 - b. Or using the Command Line Interface (CLI):
 - o File= CiscoCyberVision-update-center-4.1.7.dat
 - o Launch the update with the following command:

sbs-update install /data/tmp/CiscoCyberVision-update-center-4.1.7.dat

2. Update the sensors:

- a. Hardware sensors:
 - If you used the combined file to update the Center which owned the sensor and the SSH connection from the Center to the allowed sensor, the hardware sensors (Cisco IC3000 and Sentryo SENSOR's) were updated at the same time.
 - ii. If the Cisco IC3000 sensor was deployed using the sensor management extension, it can be upgraded by deploying it again.
 - iii. If not, the update needs to be done from the Command Line Interface (CLI):
 - File= CiscoCyberVision-update-sensor-4.1.7.dat
 - Launch the update with the following command:

sbs-update install /data/tmp/CiscoCyberVision-update-sensor-4.1.7.dat

- b. IOx sensors:
 - i. If you have installed the sensors with the sensor management extension, first upgrade the extension itself and then all sensors will have to be updated.
 - File = CiscoCyberVision-sensor-management-4.1.7.ext
 - Navigate to Admin > Extensions. In the Actions column, use the update button and browse to select the update file.

The Cisco Cyber Vision sensor management extension can also be updated from the CLI with the command:

sbs-extension upgrade /data/tmp/CiscoCyberVision-sensor-management-4.1.7.ext

- ii. All sensors need to be updated with the extension. To do so, access the sensor administration page, and use the menu "Manage Cisco devices" / "Update Cisco devices" or use the redeploy button. A complete procedure is available in the document (part "Cisco Cyber Vision new features and improvements") or in all sensor deployment guides version 4.1.7 minimum.
- iii. If you have not installed the sensor with the sensor management extension, the upgrade of the sensor can be performed with the sensor package from the Local Manager platform or from the Command Line Interface. This procedure is described in the corresponding sensors installation guides.
 - IE3x00 and IR1101 files = CiscoCyberVision-IOx-aarch64-4.1.7.tar or CiscoCyberVision-IOx-Active-Discovery-aarch64--4.1.7.tar
 - Catalyst 9300 and 9400 and IR8340 files = CiscoCyberVision-IOx-x86-64-4.1.7.tar or CiscoCyberVision-IOx-Active-Discovery-x86-64-4.1.7.tar.

<u>Important remark regarding CiscoCyberVision-IOx-x86-64 sensor application update:</u>

The sensor update through the Local Manager of a Catalyst 9300, 9400 or IR8340 files is not possible from a release 4.1.2 (or lower) to a release 4.1.3 (or higher) due to the addition of the rspan compatibility. The sensor application needs to be redeployed and the enrolment package uploaded again.

Guidelines here: Cisco Cyber Vision Sensor Application for Cisco Switches Installation Guide, Release 4.1.3

AWS and Azure Centers

In case of a Center deployed in AWS or Azure, follow the same procedure described with one Center hereabove.

Cisco Cyber Vision 4.1.7 important changes

Command line access

In 4.1.0, a major change regarding the Center Command Line Interface (CLI) access through serial console or SSH was made. The user root is no more usable to establish the connection. A new user called 'cv-admin' must be used. This user has limited rights and many CLI commands will require permission elevation:

- prefix the command with "sudo".
- or open a root shell using "sudo -i" and enter the command.

Communication port and protocol changes

Port

No modification in 4.1.7.

Protocol

No modification in 4.1.7.

API

No modification in 4.1.7.

SYSLOG

No modification in 4.1.7.

Cisco Cyber Vision Resolved Caveats

CDETS	Description	
	Disable ENIP 0x6b variables processing by default	
	Pxgrid agent bulk api has no auth mechanism	
	Update HAproxy	
CSCwh19219	kdb import fails for subscriber rules	
CSCwk62289	Evaluation of Cyber Vision for OpenSSH regreSSHion vulnerability	

Cisco Cyber Vision Open Caveats

Issues ID / CDETS	Component	Description
CSCwb12630	Center + ISE	All components are not synchronized with ISE
CSCvy57108	Center	Linux computer incorrectly tagged as Windows
CSCwd39017	Center	Missing information in the Smart License Usage

Links

Software Download

The files below can be found at the following link: https://software.cisco.com/download/home/286325414/type

Center	Description
CiscoCyberVision-center-4.1.7.ova	VMware OVA file, for Center setup
CiscoCyberVision-center-with-DPI-4.1.7.ova	VMware OVA file, for Center with DPI setup
CiscoCyberVision-center-4.1.7.vhdx	Hyper-V VHDX file, for Center setup
CiscoCyberVision-sensor-management-4.1.7.ext	Sensor management extension installation file
Sensor	Description
CiscoCyberVision-IOx-aarch64-4.1.7.tar	Cisco IE3400, Cisco IE3300 10G, Cisco IE9300, Cisco IR1101 sensor installation and update file
CiscoCyberVision-IOx-Active-Discovery-aarch64 4.1.7.tar	Cisco IE3400, Cisco IE3300 10G, Cisco IE9300 Cisco IR1101 Active Discovery sensor installation and update file
CiscoCyberVision-IOx-IC3K-4.1.7.tar	Cisco IC3000 sensor installation and update file
CiscoCyberVision-IOx-x86-64-4.1.7.tar	Cisco Catalyst 9x00 and Cisco Catalyst IR8340 sensor installation and update file
CiscoCyberVision-IOx-Active-Discovery-x86-64-4.1.7.tar	Cisco Catalyst 9x00 and Cisco Catalyst IR8340 Active Discovery sensor installation and update file
Updates	Description
CiscoCyberVision-Embedded-KDB-4.1.7.dat	KnowledgeDB embedded in Cisco Cyber Vision 4.1.7
CiscoCyberVision-update-center-4.1.7.dat	Center update file for upgrade from
	release 4.0.x or 4.1.x to release 4.1.7
CiscoCyberVision-update-sensor-4.1.7.dat	Cisco IC3000 Sensor and Sentryo Sensor3, 5, 7 update file for upgrade from release 4.0.x or 4.1.x to release 4.1.7
CiscoCyberVision-update-combined-4.1.7.dat	Center, IC3000 Sensor and Legacy Sensor update file from GUI for upgrade from release 4.0.x or 4.1.x to release 4.1.7

Cisco Cyber Vision Center 4.1.7 can also be deployed on AWS (Amazon Web Services) and Microsoft Azure.

The Cisco Cyber Vision Center AMI (Amazon Machine Image) can be found on the AWS Marketplace:

https://aws.amazon.com/marketplace/seller-profile?id=e201de70-32a9-47fe-8746-09fa08dd334fhttps://aws.amazon.com/marketplace/search/results?searchTerms=Cisco+Cyber+visionhttps://aws.amazon.com/marketplace/search/results?searchTerms=Cisco+Cyber+visionhttps://aws.amazon.com/marketplace/search/results?searchTerms=Cisco+Cyber+visionhttps://aws.amazon.com/marketplace/search/results?searchTerms=Cisco+Cyber+visionhttps://aws.amazon.com/marketplace/search/results?searchTerms=Cisco+Cyber+visionhttps://aws.amazon.com/marketplace/search/results?search/

The Cisco Cyber Vision Center Plan can be found on the Microsoft azure marketplace:

https://azuremarketplace.microsoft.com/en-us/marketplace/apps/cisco.cisco-cyber-vision?tab=Overview

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:

Cisco Cyber Vision GUI User Guide.html

• Cisco Cyber Vision GUI Administration User Guide:

Cisco Cyber Vision GUI Administration Guide.html

• Cisco Cyber Vision Architecture Guide

Cisco Cyber Vision Architecture Guide

• Cisco Cyber Vision Active Discovery Configuration Guide

Cisco Cyber Vision Active Discovery Configuration Guide

Cisco Cyber Vision Sensor Application for Cisco Switches Installation Guide:

Cisco Cyber Vision Sensor Application for Cisco Switches Installation Guide

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

Cisco Cyber Vision Network Sensor Installation Guide for Cisco IR1101 4 0 0.pdf

Cisco Cyber Vision Network Sensor Installation Guide for Cisco IC3000:

Cisco Cyber Vision Network Sensor Installation Guide for Cisco IC3000

Cisco Cyber Vision Network Sensor Installation Guide for Cisco IR8340:

Cisco Cyber Vision Network Sensor Installation Guide for Cisco IR8340

• Cisco Cyber Vision Center Appliance Installation Guide:

Cisco Cyber Vision Center Appliance Installation Guide

• Cisco Cyber Vision Center VM Installation Guide:

Cisco Cyber Vision Center VM Installation Guide

• Cisco Cyber Vision Center AWS Installation Guide:

Cisco Cyber Vision for AWS Cloud Installation Guide

• Cisco Cyber Vision Center Azure Installation Guide:

Cisco Cyber Vision for Azure Cloud Installation Guide

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

Integrating-Cisco-Cyber-Vision-with-Cisco-Identity-Services-Engine-via-pxGrid 3 1 1.pdf

• Cisco Cyber Vision Smart Licensing User Guide

Cisco Cyber Vision Smart Licensing User Guide

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