



Release Notes for Cisco Cyber Vision

Release 4.1.4 FIPS

If you do not require FIPS compliance for your organization, please download the standard release of Cisco Cyber Vision

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FIPS release

The Federal Information Processing Standard (FIPS) 140-2 is a U.S. government standard for specific security requirements for cryptographic modules. This standard applies to all federal agencies that use cryptographic-based security systems to protect sensitive information in computer and telecommunication systems. If you do not require FIPS compliance for your organization, please download the standard release of Cisco Cyber Vision.

FIPS build limitations:

- Only FIPS Center and FIPS Sensors can work together.
- This is not possible to cross-update or downgrade from a non-FIPS version to a FIPS version and vice-versa.
- Only few images are supported, they are listed at the end of this document.

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
Sensor	Description
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 Catalyst IE9300	Cyber Vision Sensor IOx application hosted in Cisco Catalyst IE9300 Rugged Series switches
Cisco IR1101	Cyber Vision Sensor IOx application hosted in Cisco IR1101 Series Industrial Integrated Services Routers
Cisco Catalyst IR8300	Cyber Vision Sensor IOx application hosted in Cisco Catalyst IR8300 Rugged Series Routers
Cisco Catalyst 9300, 9400	Cyber Vision Sensor IOx application hosted in Catalyst 9300, 9400 Series switches

Cisco Cyber Vision 4.1.4 update procedure

Cisco Cyber Vision 4.1.4 FIPS is the first supported FIPS release, future Cyber Vision releases will have some FIPS builds and upgrade from one FIPS release to another FIPS release will be possible.

Cisco Cyber Vision 4.1.4 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 4.1.4.

Protocol

No modification in 4.1.4.

API

No modification in 4.1.4.

SYSLOG

No modification in 4.1.4.

Cisco Cyber Vision new features and improvements

DPI improvements for roadways

New protocols added in the solution:

- HP, MikroTik discovery
- Wavetronix Z1
- RTSP
- Kistler KiTraffic (inspection only)
- 2070 OS/9 telnet login prompts
- MQTT
- SCATTS
- Q-Free/Intelight Maxtime/Maxview traffic intersection control system (from HTTP)
- Connected vehicle (V2X) traffic between Cohda RSU and TMC over DSRC link: SPaT and MAP messages
- RTP video streams
- Axis camera HTTP traffic

Improved protocols:

- CDP
- LLDP
- SNMP
- NTCIP

Several tags related to transportation protocols were added.

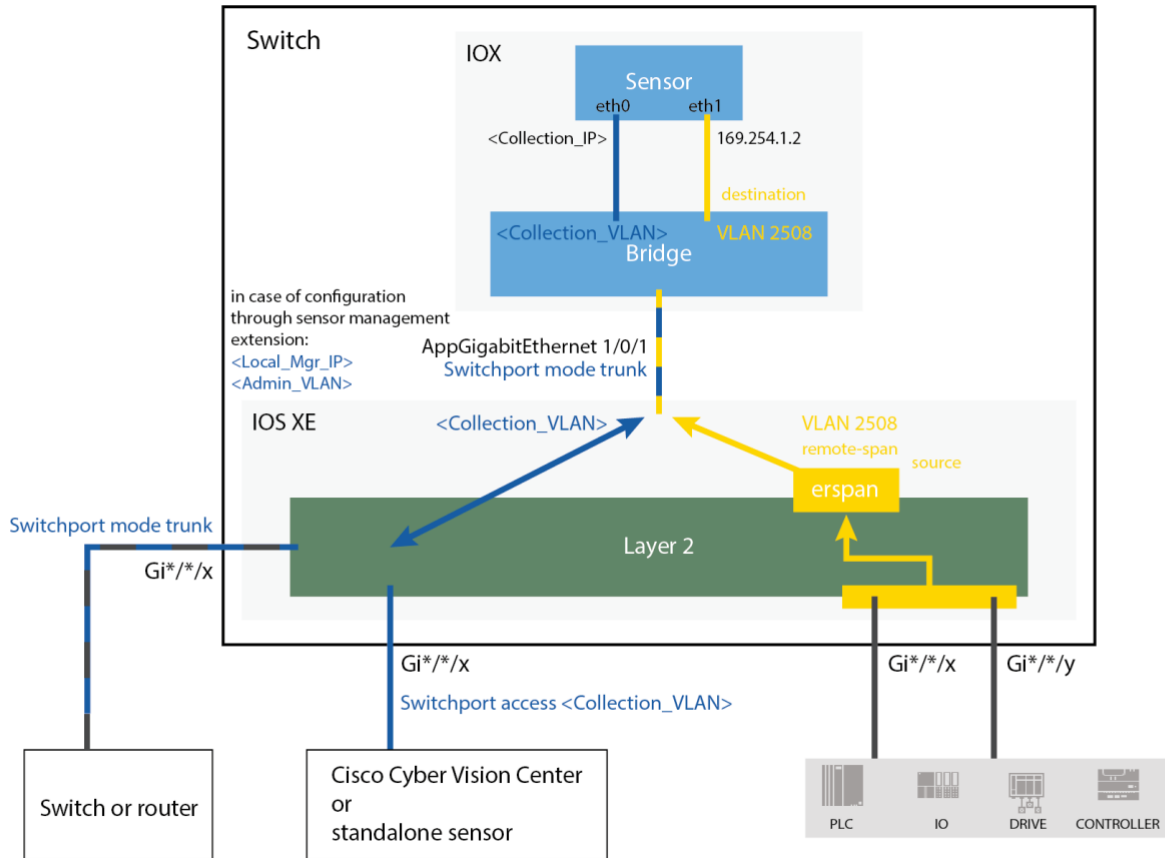
Family	Tag Name	Tag Description
System tag	ITS - Roadway	Intelligent transportation system (ITS) are systems in which information and communication technologies are applied in the field of road transport, including infrastructure, vehicles and users, and in traffic management and mobility management, as well as for interfaces with other modes of transport. Source: https://en.wikipedia.org/wiki/Intelligent_transportation_system
Component Tag	ITS Census	ITS Traffic Census Systems which gives information across the entire transportation network.
Component Tag	ITS 2070 Controller	2070 Control unit
Component Tag	ITS Actuated traffic Signal Controller	as per NTCIP 1202 it design units part of Traffic Signal Controller systems. source : https://www.ntcip.org/document-numbers-and-status/
Component Tag	ITS CCTV Switching	as per NTCIP 1208. ITS Specifics CCTV switching systems.

Family	Tag Name	Tag Description
Component Tag	ITS Camera	as per NTCIP 1205 ITS CCTV systems.
Component Tag	ITS Data Collection and Monitoring	as per NTCIP 1206. ITS Data Collection and Monitoring systems.
Component Tag	ITS Dynamic Message Signs	as per NTCIP 1203, units part of road message signs systems
Component Tag	ITS Electrical and Lighting Management System	as per NTCIP 1213 ITS Electrical and Lighting Management System
Component Tag	ITS Environmental Sensor Station	as per NTCIP 1204. ITS Environmental Sensor Station units.
Component Tag	ITS HAR	Highways advisory radio
Component Tag	ITS LUMS	Lane Use Management Signs (LUMS) could be <ul style="list-style-type: none"> • Variable Speed Limit Signs (VSLS) • Electronic Speed Limit Signs (ESLS) • School Zone Signs • Integrated Speed & Lane Use Signs (ISLUS)
Component Tag	ITS Radar	vehicle detector units.
Component Tag	ITS Ramp Meter Control	as per NTCIP 1207, unit part of road ramp metering system.
Component Tag	ITS Roadside Units	as per NTCIP 1218 ITS Roadside Units
Component Tag	ITS Signal Control and Prioritization	as per NTCIP 1211 ITS Signal Control and Prioritization systems
Component Tag	ITS Signal System Master	as per NTCIP 1210 ITS Signal System Masters systems
Component Tag	ITS Transportation Sensor System	as per NTCIP 1209 Units part of road traffic counting and monitoring sensors
Flow Tag	ITS DSRC	ITS DSRC Message used for V2X communication (SAE J2735) ie MAP/SPAT messages

Sensor IOx in a Cisco Catalyst IE9300 Rugged Series Switches

In releases 4.1.4, Cisco Cyber Vision Sensor could be installed on a Catalyst IE9300. Sensor setup in this platform is detailed in the following documentation: [Cisco Cyber Vision Sensor Application for Cisco Switches Installation Guide, Release 4.1.3](#).

Cisco Cyber Vision sensor in a IE9300



Cisco Cyber Vision Resolved Caveats

CDETS	Description
	KDB import gives some sbs-backend errors (11418)
	Preset list in main explorer page and drop-down lists should be properly sorted (11372)
	Minimap at component/device level doesn't have a limit of displayed objects (11366)
	Add automatic cleaning of active discovery tasks (11358)
	Expired flow tables are never deleted (11328)
	sql.gz import from the GUI often causes Center to hang (10992)
	Fix Admin menu discrepancies between V3 and V2 (10989)
	Center IDS license expiration not evident from licensing page (10915)
	PCAP Upload: Snort error when uploading a capture from UI (10780)
	Extend Monitor Mode Syslog Messages (10767)
	"See technical sheet" link broken for port scan events (10695)
	Vulnerability list: counter do not match number of row (10595)
	CoDeSys DPI not working with some customers PCAP (9572)
	Home page: Info popup remain on the screen on Operational overview to Security overview (10987)
	HSR/PRP failure detection error (11279)
	Misleading message when acknowledging all differences in monitor mode (11364)
	Backend, burrow and ted stuck after a kdb update (11511)
	"Unnamed components" after uploading PCAP (11534)
	Netbios name is not updated when traffic with the new name is observed for an existing component (11675)
	Crash when license is not set in backend (11680)

Cisco Cyber Vision Open Caveats

Issues ID / CETS	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-fips-4.1.4.ova	VMware OVA file, for Center setup
CiscoCyberVision-center-fips-4.1.4.vhdx	Hyper-V VHDX file, for Center setup
Sensor	Description
CiscoCyberVision-IOx-Active-Discovery-aarch64-fips-4.1.4.tar	Cisco IE3400, Cisco IE3300 10G, Cisco IE9300 Cisco IR1101 Active Discovery sensor installation and update file
CiscoCyberVision-IOx-Active-Discovery-x86-64-fips-4.1.4.tar	Cisco Catalyst 9x00 and Cisco Catalyst IR8340 Active Discovery sensor installation and update file

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](#)