Cisco Physical Security Multiservices Platform

The Cisco® Physical Security Multiservices Platform offers you innovative choices for deploying and managing physical security services such as video surveillance, access control, and flexible incident response communications. It is comprised of a suite of two server models and includes a wide array of features in a single, easy-to-use, and easy-to-deploy component that offers you choices among the following security applications:

- **Video Surveillance** provides network digital recording and playback. With optional built-in analog video encoder cards and Fibre Channel interfaces, the Cisco Physical Security Multiservices Platform 1-RU and 2-RU servers enables direct connectivity from analog cameras or for IP video directed from the network, and allows remote playback of the recordings over an IP network. This platform offers scalable and flexible options for replacing traditional analog or digital video recorders in a variety of video surveillance deployments. For other video surveillance platform options, see:

  http://www.cisco.com/en/US/products/ps9152/products_data_sheets_list.html

- **Physical Access Control** provides electronic access control using the IP network to manage doors and locks. The solution consists of hardware and software products and is modular, scalable, and easy to install. The solution's management application, Cisco Physical Access Manager, comes installed on the Cisco Physical Security Multiservices Platform 1-RU appliance. Cisco Physical Access Manager is used to configure Cisco Physical Access Gateways and Modules, monitor activity, enroll users, and integrate with IT applications and data stores. For other physical access control platform options, see:

  http://www.cisco.com/en/US/products/ps9688/products_data_sheets_list.html

- **Cisco IP Interoperability and Collaboration System (IPICS)** provides on-demand incident communications across multiple agencies, enabling new levels of interoperability and operational efficiencies for public safety agency and support personnel. Cisco IPICS Server Software can be installed on the Cisco Physical Security Multiservices Platform 1-RU and 2-RU servers, and integrates disparate push-to-talk systems with other voice systems for emergency personnel. For other Cisco IPICS platform options, see:

  http://www.cisco.com/en/US/products/ps6718/products_data_sheets_list.html

- **Cisco Physical Security Operations Manager** provides a scalable command and control style operator console that unifies event management and operation of Video Surveillance Manager, Physical Access Manager, and IPICS. Physical Security Operations manager comes in both Enterprise and Lite versions. The Lite version can be installed on the Cisco Physical Security Multiservices Platform 1-RU and 2-RU servers. The Enterprise version can be installed only on the 2-RU server. For more information, see:

  http://www.cisco.com/en/US/products/ps11265/products_data_sheets_list.html

- **Cisco VSS Alloy for VSM** is converged video user interface (UI) software that allows you to customize to fit specific video security needs. Designed to for the education market to provide a unified user experience, VSS Alloy™ for VSM delivers a simplified user experience with graphical maps, video paging, and other features. To learn more, see:

  http://www.cisco.com/en/US/prod/collateral/vpndevc/ps6918/ps9145/ps9152/product_bulletin_c25-626399.pdf

The Cisco Physical Security Multiservices Platform product suite includes a 1-RU or 2-RU server, shown in Figures 1 and 2, respectively. Tables 1 and 2 address the software applications available on each server.

Figure 1.   Cisco Physical Security Multiservices Platform 1-RU

Table 1.   Cisco Physical Security Multiservices Platform 1-RU Software Application Options*

Software Application	Options
Video Surveillance Manager	• Video Surveillance Manager version 4.2.1/6.2.1 and 6.3 • 1 × CIVS-HDD-1000—1 TB SATA hard-disk drives in JBOD-like configuration with ~874 GB storage or 4 × CIVS-HDD-1000—1 TB SATA hard-disk drives in RAID-5 configuration with ~2.6 TB storage Supports one of the following option cards at a time: • 1 × CIVS-FC-1P—Fibre Channel card • 1 × CIVS-ENC-8P—8-channel encoder card for H.264/JPEG (at D1 resolution) • 1 × CIVS-ENC-16P—16-channel encoder card for H.264/JPEG (at D1 resolution)
Physical Access Control	• Cisco Physical Access Manager version 1.2 • 1 × CIVS-HDD-1000—1 TB SATA hard-disk drive
IPICS	• Cisco IPICS version 4.0 ready (download required) • 2 × CIVS-HDD-1000—1 TB SATA hard-disk drives in RAID-1 mirroring configuration with ~437 GB storage available
Physical Security Operations Manager	• Cisco Physical Security Operations Manager Lite version 5.1 • 2 × CIVS-HDD-1000—1 TB SATA hard-disk drives in RAID-1 mirroring configuration with ~437 GB storage available
VSS Alloy for VSM	• Cisco VSS Alloy for VSM version 3.4 • 4 × CIVS-HDD-1000—1 TB SATA hard-disk drives in RAID-5 configuration with ~2.6 TB storage

* This platform supports only one software application option at a time.

Figure 2.   Cisco Physical Security Multiservices Platform 2-RU

Table 2. Cisco Physical Security Multiservices Platform 2-RU Software Application Options*

Software Application	Options
IPICS	• IPICS version 4.0 ready (download required) • 1 x CPS-HDD-6TB-BNDL—RAID-5 configuration with ~1.5 TB storage available • 1 × CIVS-PS-900—900W power supply • Add up to 1 × CIVS-PS-900—redundant 900W power supply (optional)
Video Surveillance Manager	• Video Surveillance Manager version 6.3 • Up to 2 x CPS-HDD-6TB-BNDL—RAID-6 configuration with ~3.3 TB or ~8.5 TB storage available • 1 × CIVS-PS-900—900W power supply • Add up to 1 × CIVS-PS-900—redundant 900W power supply (optional) Supports one or up to three of the following option cards at a time: • 1 × CIVS-FC-1P—Fibre Channel card • 1 × CIVS-ENC-8P—8-channel encoder card for H.264/JPEG (at D1 resolution) • 3 × CIVS-ENC-16P—16-channel encoder card for H.264/JPEG (at D1 resolution)
Physical Security Operations Manager	• Cisco Physical Security Operations Manager Lite version 5.1 or Enterprise version 5.1 • 1 x CPS-HDD-6TB-BNDL—RAID-6 configuration with ~8.5 TB storage available
VSS Alloy for VSM	• Cisco VSS Alloy for VSM version 3.4 • 2 x CPS-HDD-6TB-BNDL—RAID-6 configuration with ~8.5 TB storage available

* This platform supports only one software application option at a time.

The Cisco Physical Security Multiservices Platform offers a variety of benefits, including:

- High storage density
- System resiliency
- Hardware diagnostics
- High-performing motherboard

Key Features

Key features of the Cisco Physical Security Multiservices Platform server include:

- Built-in 300W high-efficiency power supply in the 1-RU server
- 900W high-efficiency power supply with hot-swappable, redundancy option in the 2-RU server
- High-performance fans with built-in redundancy for optimized cooling
- System health and management features, including redundant cooling fans, a convenient power switch, reset button, and LED indicators
- Various RAID configurations for resiliency (see application specifics above)
- Optional encoder cards that compress up to 16 analog video inputs with full-frame rate at D1 resolution
- Optional hot-swappable hard-disk drives that can be removed without powering down the server (must have RAID configuration to be hot-swappable)

Connectors

Table 3 describes the connectivity and connectors of the Cisco Physical Security Multiservices Platform.

Table 3.   Cisco Physical Security Multiservices Platform I/O Connections

Item	Specification	Software Application
USB 2.0	2 ports	All standard
10/100/1000M Ethernet	2 ports standard	All standard
Serial (RS-232)	1 port	All standard
Analog video inputs	16 ports or up to 48 ports	Single video surveillance option card (1-RU) Up to three video surveillance option cards (2-RU)
Fibre Channel	1 port	Single video surveillance option card (1-RU and 2-RU)

Specifications

Table 4 and 5 provides specifications for the Cisco Physical Security Multiservices Platform.

Table 4.   1-RU Technical Specifications

Item	Specification
Housing	1-RU × 19 in., 4 × SATA front-loading drive bays
Motherboard	Intel E5502 1.86 GHz Xeon Dual-Core CPU, 4 GB DDR3 RAM
LEDs	Power, hard-drive activity, network activity, system overheat/fan fail
Gross weight	• 24.5 lbs. (11.1 kg), 4 × 1 TB hard-disk drives and 1 x power supply • 18.5 lbs. (8.4 kg), with power supply, no HDDs, and no cards
Dimensions	1.7 × 17.2 × 19.8 in. (43 × 437 × 503 mm)
Power supply	1 × 300W internal power supply
Power requirements (no option cards)	• 110V/60 Hz: Spin-up surge: 175W, Steady-state: 128W • 220V/60 Hz: Spin-up surge: 222W, Steady-state: 143W
Operating temperature	50° to 95°F (10° to 35°C)
Non-operating temperature	−40° to 158°F (−40° to 70°C)
Operating relative humidity	8% to 90% (non-condensing)
Non-operating relative humidity	5% to 95% (non-condensing)
Heat output	552 BTU/hour with 4 x 1 TB HDD
On-board storage option	CIVS-HDD-1000—1 TB SATA hard-disk drive
On-board storage capacity	• IPICS—RAID-1 configuration with ~437 GB storage available • Video Surveillance Manager—JBOD configuration with ~874 GB and RAID-5 configuration with ~2.6 TB storage available • VSS Alloy for VSM—RAID-5 configuration with ~2.6 TB storage available
Number of on-board storage repositories	• 1 for JBOD hard drive for video surveillance application • 1 for RAID-5 configuration for video surveillance application

Table 5.   2-RU Technical Specifications

Item	Specification
Housing	2-RU × 19 in., 12 × SATA front-loading drive bays
Motherboard	Intel E5520 2.26 GHz Xeon Quad-core CPU, 4 GB DDR3 RAM
LEDs	Power, hard drive activity, network activity, system overheat/fan fail
Gross weight	• 42.5 lbs. (19.3 kg), 6 × 1 TB hard-disk drives, and 2 × power supplies • 27.5 lbs. (12.5 kg), no hard-disk drives, no power supplies, no cards
Dimensions	3.5 × 17.2 × 25.5 in. (89 × 437 × 648 mm)
Power supply	1 × 900W internal power supply
Redundant power supply	1 × 900W (1+1) redundant internal power supply (optional)
Power requirements (no option cards)	• 110V/60 Hz: Spin-up surge: 395W, steady-state: 274W • 220V/60 Hz: Spin-up surge: 480W, steady-state: 284W
Operating temperature	50° to 95°F (10° to 35°C)
Non-operating temperature	–40° to 158°F (–40° to 70°C)
Operating relative humidity	8% to 90% (non-condensing)
Non-operating relative humidity	5% to 95% (non-condensing)
Heat output	1216 BTU/hour with 12 × 1 TB HDD
On-board storage option	CPS-HDD-6TB-BNDL—6 x 1 TB hard-disk drive bundle
On-board storage capacity	• IPICS—RAID-5 configuration with ~1.5 TB storage available • Video Surveillance Manager—RAID-6 configuration with ~3.3 TB or ~8.5 TB storage available • VSS Alloy for VSM—RAID-6 configuration with ~8.5 TB storage available
Number of on-board storage repositories	1 for video surveillance application

Certifications

Please visit the Product Approval Status (PAS) tool for country approval status: http://tools.cisco.com/cse/prdapp

Note: Due to the European alarm specification EN50130-4, the Cisco Multiservices Platform server cannot contain a video capture card in Europe.

Ordering Information

To place an order, visit the Cisco Ordering Homepage. To download firmware, visit the Cisco Software Center. Table 6 provides ordering information for the Cisco Physical Security Multiservices Platform.

Table 6.   Cisco Physical Security Multiservices Platform Ordering Information

Item	Specification
CPS-MSP-1RU-K9	1-RU chassis with motherboard, one CPU, and one built-in 300W power supply (no drives, no power cables, and no option cards)
CIVS-HDD-1000	1 TB SATA hard-disk drive for CIVS-MSP and CPS-MSP platforms (1-RU)
CPS-MSP-2RU-K9	2-RU chassis with motherboard, one CPU, and one 900W power supply (no drives and no power cables)
CPS-HDD-6TB-BNDL	6 x 1 TB SATA hard-disk drive bundle for CPS-MSP platforms (2-RU)
CIVS-PS-900	Redundant 900W power supply option for 2-RU platform only
CIVS-FC-1P	Fibre Channel card option for video surveillance application
CIVS-ENC-8P	8-port encoder card add-on option for video surveillance application; provides full-frame rate at D1 resolution; includes H.264/JPEG codecs and software feature channel license
CIVS-ENC-16P	16-port encoder card add-on option for video surveillance application; provides full-frame rate at D1 resolution; includes H.264/JPEG codecs and software feature channel license

Item	Specification
CIVS-CAB-16V	Up to 16-port compact cable (3/4 meter) from encoder card to BNC connector panel; for mounting adjacent to the back of MSP server
CIVS-PAN-32BNC	32-port BNC connector panel; supports up to two cards; connects to either 8- or 16-port encoder card using 16-port cable
CPS-MSP-1RU-KIT=	1-RU MultiServices Platform spare rail kit; includes rails and screws
CPS-MSP-2/4RU-KIT=	2-RU or 4-RU MultiServices Platform spare rail kit; includes rails, square-hole adaptor, and screws
CPS-HDDTRAY-KIT=	Generic 1-RU or 2-RU or 4-RU Multiservices Platform hard-drive tray spare kit (no hard-disk drive included)

All servers are assemble-to-order and do not allow field upgrades for hard-disk drives, Fibre Channel cards, and video encoder cards.

Availability

Cisco Physical Security Multiservices Platforms are available through Cisco Authorized Technology Provider Partners.

Service and Support

Cisco and our certified partners can help you accelerate success and improve the return on your investment in a Cisco Physical Security solution. The Cisco lifecycle approach to services defines the requisite activities at each phase of the solution lifecycle:

- Reduce deployment costs by identifying the features that will best meet your business requirements.
- Accelerate migration by assessing the readiness of your network to support the system and by developing a sound design.
- Support smooth implementation through effective planning and expert installation, configuration, and integration.
- Increase operational efficiency and extend the value of your investment with superior technical support.

For more information about Cisco services, visit http://www.cisco.com/go/services.

For More Information

For more information about the Cisco Physical Security Multiservices Platforms, contact your local account representative or visit http://www.cisco.com/go/physec.

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV Amsterdam,
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at **www.cisco.com/go/offices.**