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Cisco Connected Physical Security Solutions



Transforming the Way Organizations and Communities Protect People, Property, and Critical Infrastructure

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Agenda

✓ Physical Security is Changing, Differentiated and Strategy

- ✓IP Cameras
- ✓Video Surveillance
- ✓Access Control
- Incident Respond (IPICS)
- Connected Physical Security Solutions
- Industry Applications

cisco

Physical Security Is Changing

Moving From:

Proprietary legacy systems

Siloed organizations and "point products"

Manual processes: Increases TCO

Geographically dispersed facilities and personnel

Separate network and physical security

Legacy technology: Analog, DVRs, standard definition

Dedicated architecture for hardware, applications, and storage

Local storage

Moving To:

Open standards-based

Solutions focus and converging organizations

Drive automation and efficiencies through new technology

Centralized security management via IP

Converged network and physical security

IP, high definition, network video surveillance

Virtualized architecture for security, applications, and storage

Local, data center, and cloud storage

Cisco's Differentiated Strategy

Differentiated Connected Physical Security Product Suite

- Video surveillance
- Access control
- Incident response/notification

Transition from Products to Solutions

Highest Quality Products, Easiest to Deploy, Use, and Maintain

Tight Cisco IP Network Integration (medianet)

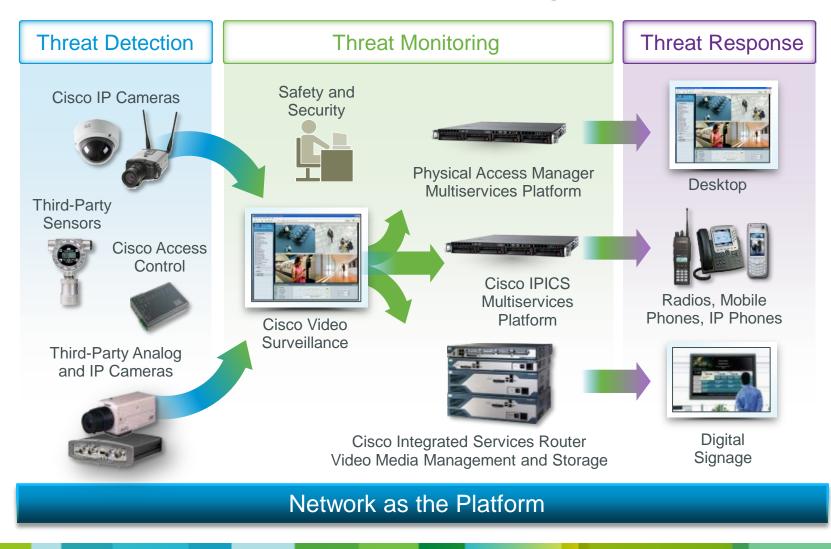
Lowest TCO for Customers



Cisco Connected Physical Security Solution

IP Cameras	Video Surveillance	Access Control	Notification and Response		
Standard Definition and High Definition IP Cameras	Video Surveillance Manager	Physical Access Manager	IPICS		
 Box, dome, PTZ Wi-Fi Indoor and outdoor Onboard analytics Medianet 	 Forensic search Bulk camera UPG Health dashboard Open standards Integrated video 		 Dispatch console Mobile client Rich media High availability PTT to IP phone 		
Ор	en API Ope	en API Ope	en API		
TelePresence VTG- PMBU—Logical/ Cisco Integration S+CC Digital VTG—Access ORA Physical Access Cisco Integration S+CC Media Control via IP Phone					
Media Trace Auto Discovery Medianet Auto Configuration Media Monitoring					
Security Health Monitoring Quality of Service IP Network Auto Updates Authentication					

Cisco Physical Security: Video Surveillance, Access Control, Incident Response



Cisco's Integrated Approach to Physical Security 60+ Ecosystem Technology Partners



Customer and Partner Success





IP Cameras



Cisco Video Surveillance IP Cameras

- High definition, standard definition, wired, wireless, box, dome, and PTZ IP cameras
- Access to video at any time from any place
- Embedded security and networking
- Motion detection and event notification
- Edge video analytics
- Easy to deploy with power over Ethernet



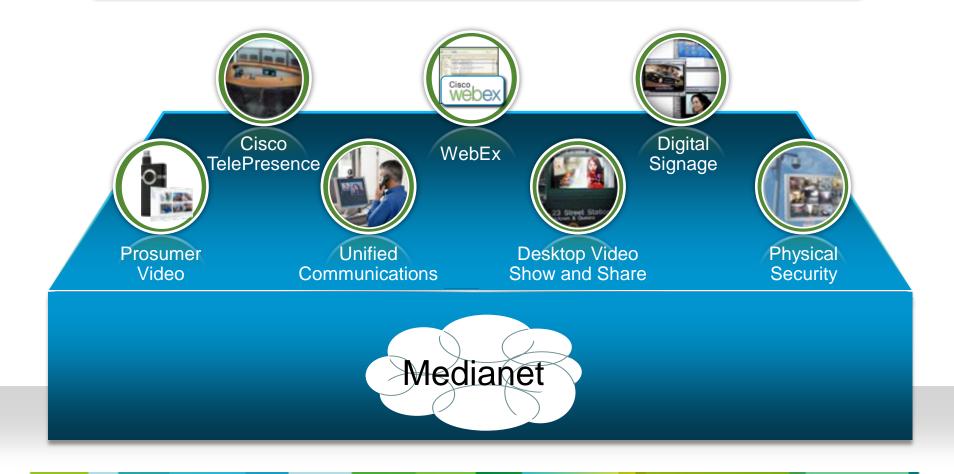


Cisco Video Surveillance IP Cameras

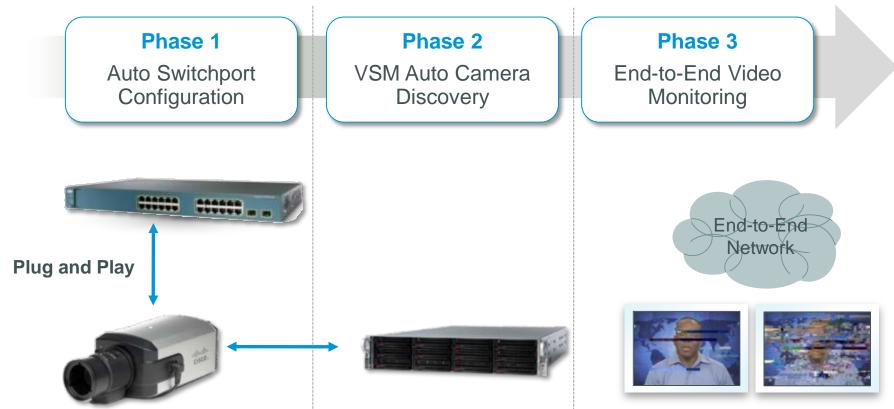
	Model	Description	Features
۲	5000 Series	1080p HD Dome IP Cameras	Auto back focusSuper low light
	4000 Series	1080p HD Box IP Cameras	Medianet supportEdge-based video analytics
	2900 Series	SD PTZ Dome IP Cameras	 Indoor and outdoor models 360° continuous pan and 256 presets
	2600 Series	SD Dome and Box IP Cameras	Motorized focus and zoom lensIndoor and outdoor mounting options
	2500 Wireless	SD Wireless IP Camera	 Better data throughput and higher link range Supports various network protocols for 802.1x authentication
	Encoder Card	8- and 16-Port Video Encoder Card	Hardware-based DSP encodingRemote camera control

Effectively Deploy All Forms of Business Video with Medianet

Video Is > 50% of Traffic on IP Networks, Growing to 90% by 2013



Cisco End-to-End Advantage with Medianet



Simplify Network IP Video Surveillance Solutions Improved End-to-End Video Management

Cisco Video Analytics

Cisco Video Analytics Base Package

- Security
 Tripwire
 Camera tampering
 Loitering
- Counting Multiline tripwire Object classification

Cisco Video Analytics Optional "Plus" Package

- Security Multi-tripwire
 Object left behind
- Counting Entry/exit
 Dwell time
 Occupancy

Advantages

- Base software at no charge with every camera
- Scalable, edge-based architecture: No need for external video analytics server
- New security and business
 applications

Cisco 4500 IP Camera



Events

Cisco Video Surveillance Manager



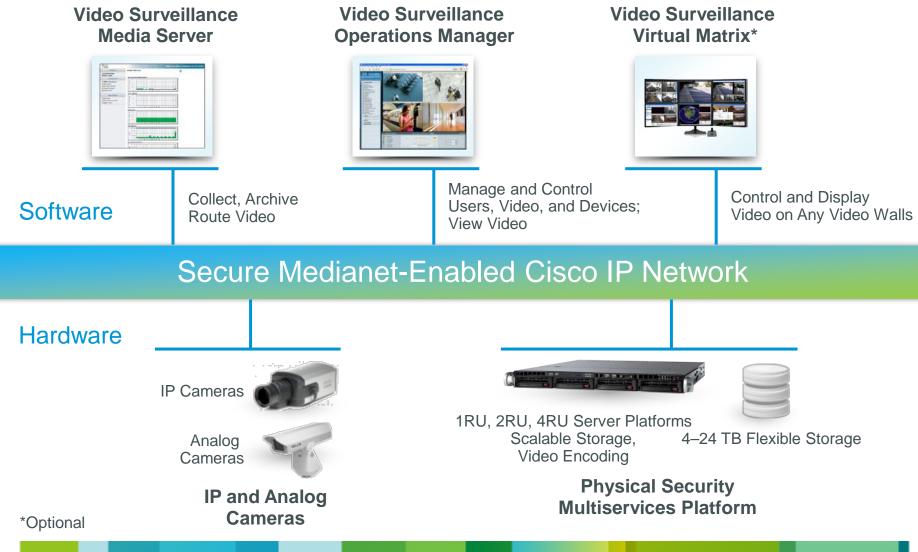
Simple and Cost-Effective IP Video Surveillance and Video Analytics Solution with Processing in IP Cameras at the Edge of the Network



Video Surveillance



Cisco Video Surveillance Manager



Cisco Video Surveillance Manager

Video Surveillance Media Server

- Core engine for the surveillance solution
- APIs for third-party integration (analytics, command, and control)
- Support for Cisco's portfolio of endpoints
- · Capable of supporting third-party cameras and encoders



Video Surveillance Operations Manager

- "Thin" web user interface for real-time/archived video viewing
- Integrated administration of all devices and storage
- Systemwide health monitoring
- · Forensic tools to speed investigations

Physical Security Multiservices Platform

- Easy-to-use and easy-to-deploy server suite
- · High storage density and high-performing motherboard
- Optional video encoder card



Video Surveillance Virtual Matrix

- · Remotely controlled video display application
- Simply push a defined layout of cameras to many operators



Access Control



Cisco Physical Access Control

CPAM: Badge Enrollment



CPAM: Access Control Map Interfaces



CPAM: Video Surveillance Integration



Cisco Physical Access Manager Software

HardwareVerticationPhysical Access
Gateway Calculation <p

Cisco Physical Access Manager

- Management application for configuring hardware, monitor activity, and enroll users
- Supports a comprehensive list of access control policies
- Easy integration with other IT systems
- Flexible reporting capability
- Easy access to video through integration with Cisco Video Surveillance Manager

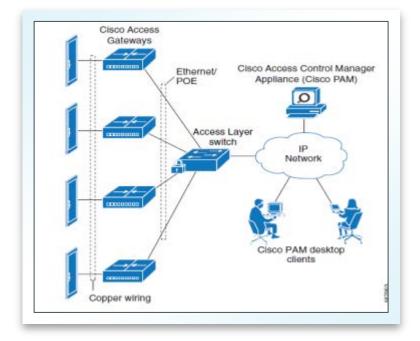




Quick Launch Bar, Integrated Video

Cisco Physical Access Gateways

- Connects door locks and readers to the IP network
- Controls up to thousands of doors
- Directly configurable through a built-in Web server
- Supports offline operations if network connectivity is lost
- 250,000 credentials can be cached and encrypted
- 150,000 events can be buffered by the door



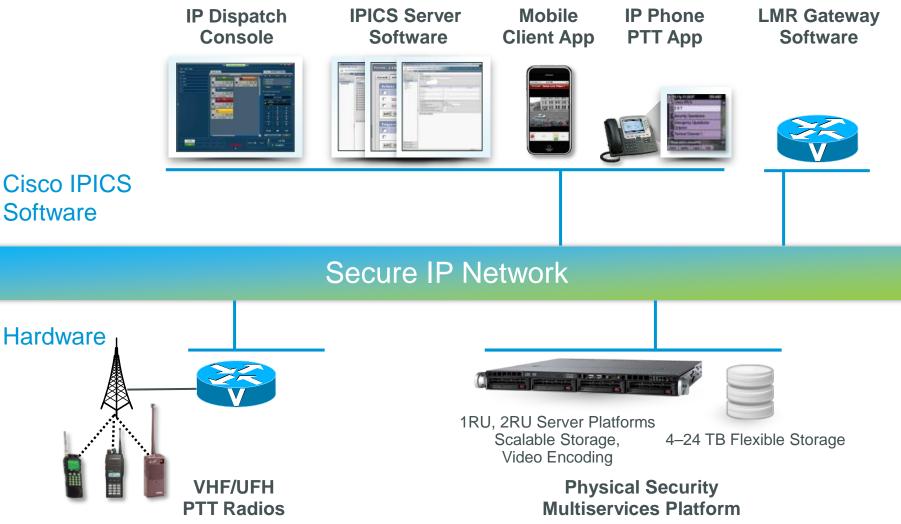




Incident Response



Cisco IPICS



Cisco IPICS Dispatch Console

- Communicate with onsite personnel using all media
- Push video images and data to first responders
- Collaborate with first responders and other organizations
- Use with any radio network for smooth evolution to new radio protocols (P25, Tetra)



Cisco IPICS Mobile Client

- App for Apple iPhone
- Integrated PTT with radio interoperability
- Rich-media incident management Increased situational awareness Increased collaboration: Citizens/others View incidents, status, media Receive/send video, images
- 3G and Wi-Fi support
- Secure access

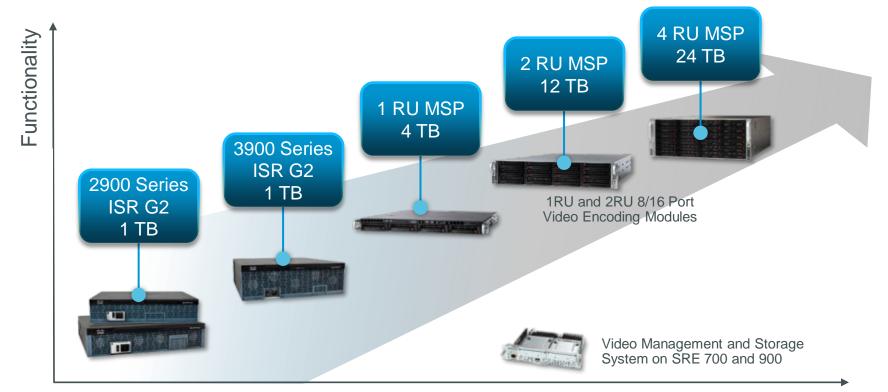




Connected Physical Security Solutions



Optimized IP Physical Security Solution Cisco End-to-End Platforms



Cost

Complete Portfolio of Cisco Physical Security Multiservices Platforms for an Optimized IP Network and Physical Security Foundation

Cisco Physical Security Operations Manager

- Scalable command and control interface that unifies Cisco Video Surveillance Manager, Physical Access Manager, and IPICS
- Improved security operations with unified command and control

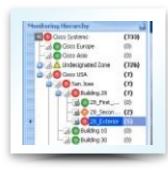
Interactive maps

Control sensors and devices

Video matrix and guard tour

- Powerful incident management with policy-based event correlation
 Correlates security events and alarms
 Event-based video recording
 Predefine operator tasks for events
- Advanced trend and incident reporting





- Video surveillance
- Access control
- Incident response
- Other systems



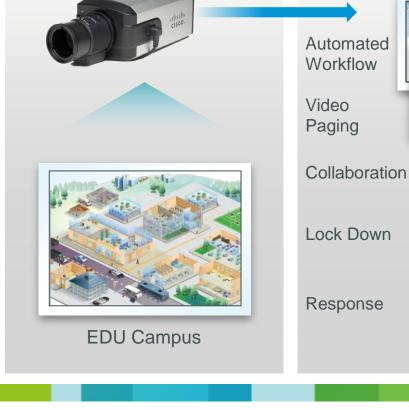
Industry Applications



Cisco Physical Security for Education

- Cisco PSOM
- Cisco Video Surveillance
 - Cisco Physical Access Control
 - Cisco IPICS
 - VSS Alloy

"Active shooter. All units respond."





- IP speaker/intercom
- Email to employee
- Text to security
- Voice call
- Paging
- Radio alert
- Digital signs

Cisco IP Cameras

Cisco Video Analytics

Education Application Identify and Help Reduce Loitering

Cisco 4000 Series IP Camera with Cisco Video Analytics





Cisco Video Surveillance and Cisco IPICS



Effective campus safety
 Enables safe learning
 Provides unified security
 Efficient use of IT network
 Ease to use and operate
 Lower costs

"Student in restricted area."

- Door annunciator
- Email to employee
- Text to security
- Voice call
- Paging
- Radio alert

Hospital Security Application Secure Hospital Operations, Entrances/Exits, Visitor Areas

Cisco 4000 Series IP Camera with Cisco Video Analytics

- Cisco PSOM
- Cisco Video Surveillance
- Cisco Physical Access Control
- Cisco IPICS

"Unauthorized entry into emergency room area."

Automated Workflow Live/ Recorded Video Collaboration Asset RFID Newborn Protection Response





- IP speaker/intercom
- Email to employee
- Text to security
- Voice call
- Paging
- Radio alert
- Digital signs

S+CC Application Urban Security, City Surveillance, Emergency Response

- **Cisco IP Cameras** •
- Cisco Video Analytics

- Cisco Video Surveillance •
- **Cisco IPICS** •
- Cisco Ecosystem Applications



"Pedestrian traffic incident at 1st and Main."





City Public Safety Command Center

- IP speaker/intercom
- Email to employee
- Text to security
- Voice call
- Paging
- Radio alert
- **Digital signs**



911 Response





Transportation



Effective public safety • Force multiplier Deter crime Safer community Identify and prosecute

- Port/border security
- Traffic management

Financial Services/Banking Application Secure Finance and Banking Operations

Cisco 4000 Series IP Camera with Cisco Video Analytics





Cisco Video Surveillance and Cisco IPICS



- Secure bank operations
- Boost profits
- Improve customer service
- Energy savings in building
- Improve marketing programs

"Remote banking assistance needed at area 1."



Cisco Remote Loan Officer Using TelePresence

Retail Application Improve Retail Store Operations

Cisco 4500 Series IP Camera with Cisco Video Analytics





Cisco Video Surveillance and **Cisco IPICS**



- Improve customer experience •
- Boost profits/grow revenues •
- Reduce shrink
- Point of sale video auditing •
- **PCI** compliance •
- Energy savings in buildings •
- Improve marketing programs .

Text •

iPhone PTT call

"Customer in

electronics aisle

needs assistance."

- Voice call •
- Paging call
- Radio call

Energy Security Example Remote Monitoring of Oil Pressure Gauges

Cisco 4000 Series IP Camera with Cisco Video Analytics



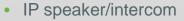
Cisco Video Surveillance and Cisco IPICS

Oil Rig



- Remote platform monitoring
- Ensure secure operations
- Reduce lawsuits/costs
- Improve response

"Warning: Oil pressure too high."



- Email to employee
- Text to security
- Voice call
- Paging
- Radio alert
- Digital signs

Enterprise Application Identify Occupancy of Buildings, Rooms, Lobbies (Virtual Lobbies)

Cisco 4000 Series IP Camera with Cisco Video Analytics





Cisco Video Surveillance and Cisco IPICS



Virtual Lobby Ambassador

- Energy savings in buildings
- Accurate occupancy counts/ usage/traffic for buildings and rooms

"Three people in lobby of building 10 need help."



Cisco TelePresence Virtual Lobby Ambassador Solution

Manufacturing Application Ensure Secure Manufacturing Operations

Cisco 4000 Series IP Camera with Cisco Video Analytics



Manufacturing Operations





Cisco Video Surveillance and **Cisco IPICS**



Worker safety •

- Ensure secure operations
- **Reduce** liability
- Improve response

"Malfunction: Line stop in sub-assembly area."



- IP speaker/intercom
- Email to employee
- Text to security
- Voice call
- Paging
- Radio alert
- **Digital signs**

Why Cisco Physical Security Solutions?

Cisco Provides End-to-End Solution

Leverage Your Existing Network Investment

Investment Protection as You Migrate

Open Standards to Build Best-of-Breed Solutions

Operational Flexibility

Improved Detection, Monitoring, Response Lower Cost

Centralized Management

Thank you.

www.cisco.com/go/physec