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Physical Security Convergence



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Agenda

- A Review of Convergence
- Physical Security Convergence

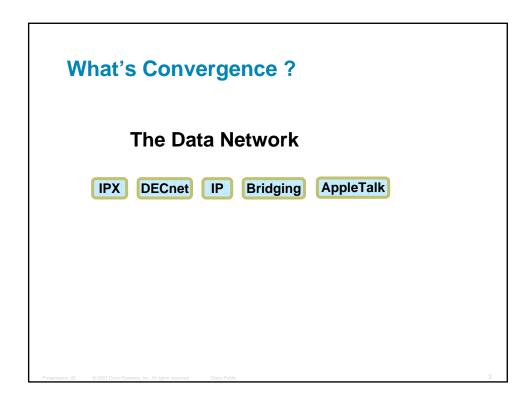
Video Surveillance

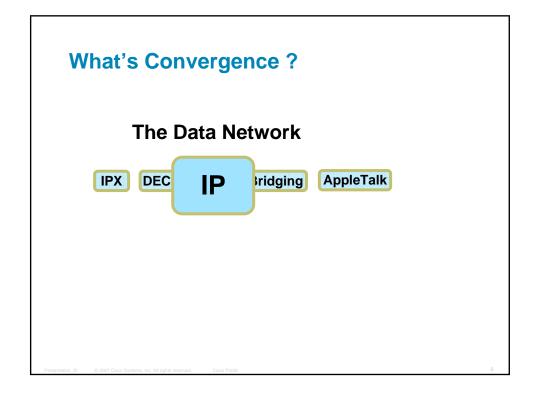
Radio Networks

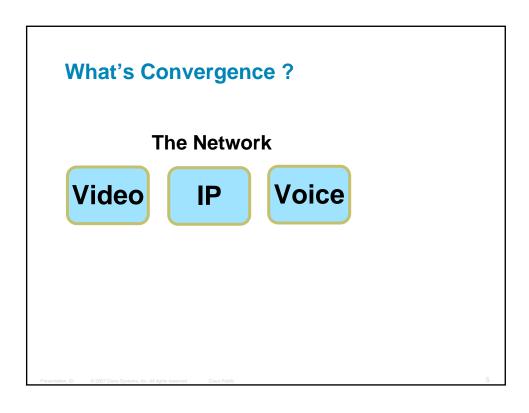
Asset Tracking

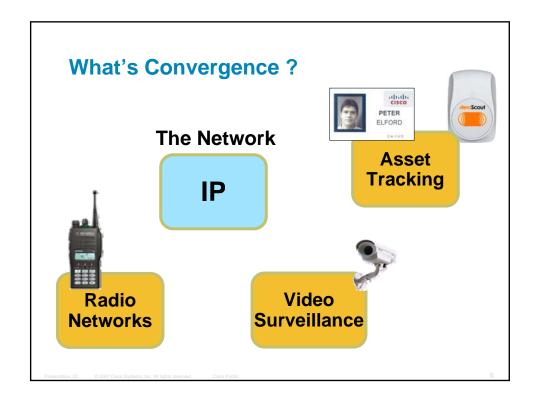
Why this is a good thing

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Outcomes of Convergence

- Improvements in overall TCO
- Improvements that impact legacy technology MAC's are simpler in a IP Telephony environment
- Innovation in converged applications
 Unified communications/messaging
 Collaborative tools
- Interoperability across technology/organisation silos
- Organisational challenges to extract best value from technology and solution innovation (ie. Convergence)

Need to take a Big Picture approach

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Video Surveillance

Traditional Video Surveillance

- Separate analogue cabling
 Matrix costly and limited in expansion
- Central station access only
 No remote access
 No on-scene collaborative access
 No mobile access
- Security and Video only
 No other sensors
 No process control
 No customer satisfaction
- Investigation delays
 No review from remote locations
 Review hours of video





Network-Based Surveillance

- Access video from anywhere on network
- Leverages existing investment in network and legacy security infrastructure
- "Distributed Matrix" increases availability and scalability
- Facilitates migration to digital content
- Opens up opportunities for more advanced and/or integrated usages of video (analytics)











Video Analytics

- Processing video to detect events
- Drives productivity and quality Operators are poor at watching video for long periods Good at confirming something an incident once flagged
- Examples

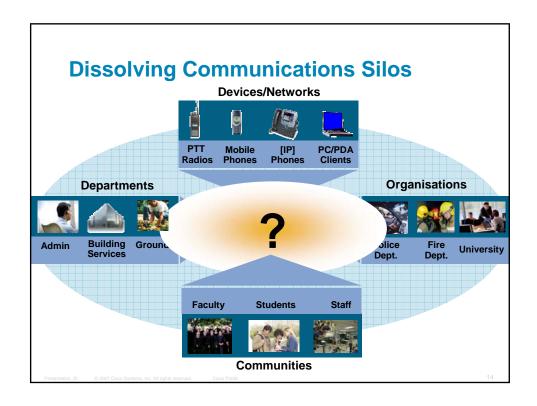
Congestion detection - too many people in too small a space Motion detection - person or vehicle moving across a scene Abandoned object detection - suitcase abandoned in airport Counter flow - person moving against an immigration route Tripwire - detection and alarm upon breach of a defined line Shape-based detection - vehicle detection.

Object tracking and theft detection - object removal

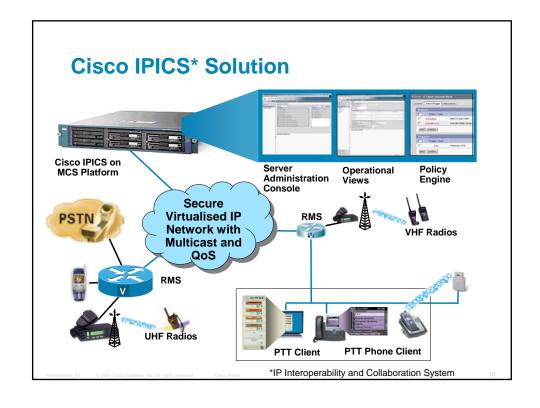








Safety and Security Communications Needs Requirement/Expectation **Communication Need** Improve communications **Intra Institution Communication** with all personnel — **Operational Efficiency** regardless of location or type of radio system or communications equipment **Achieve greater situational Improved Safety and Security for** awareness, effective event faculty, staff and students escalation / de-escalation, **Coordination for Public Events** and span of control for **Emergency Services Coordination** incident management



Cisco IPICS PMC

Push-to-talk (PTT) client for effective and efficient operations

- Provides PTT functionality for PC users
- Extends communications of PTT radio-only or broadcast environments
- Enables communication over multiple channels



Push-to-Talk Management Center

Reduces the Number of Communication Devices Needed for Monitoring and Communicating over Multiple Channels

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Cisco IPICS Phone Client

Push-to-Talk service for Cisco Unified IP Phones... a powerful collaboration tool

- Enables push-to-talk (PTT) functionality on select Cisco Unified IP Phones
- Extends voice reachability of PTT radio-only or broadcast networks
- Allows communications over a channel with a push of a button



Phone Users Can Now Respond to Incidents or Emergencies, Boosting Responsiveness and Operational Effectiveness

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Cisco IPICS Benefits

- Improved communications
 Daily operations
 Emergency response
- Integrated Communications, Incident Management, Notification, Alerting
- On-demand push-to-talk between multiple emergency services and local security/grounds staff
- Dispatch with multiple radio networks from any location
- Push-to-talk communications to any device
- Investment protection, reduced costs, enabling new applications and technologies



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Asset Tracking



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