



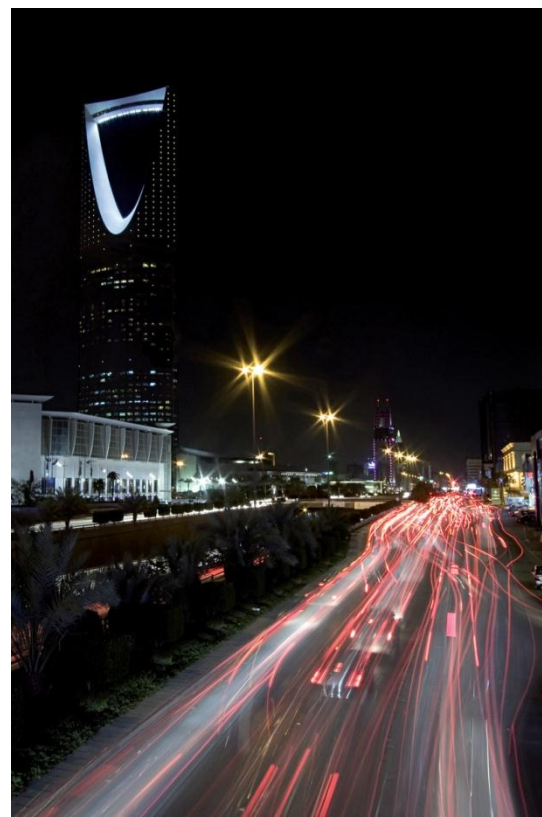
Riyadh, Saudi Arabia Country
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Cisco IPICS: Comprehensive Emergency Management & Communications Interoperability

Hani Khalaf

Customer Solutions Manager

Physical Safety and Security Solutions



Emergency Management Requirements



Cisco Connected Physical Security Solutions

Physical Security Information Managers (PSIM)

Physical Security Operations Manager

Video Surveillance



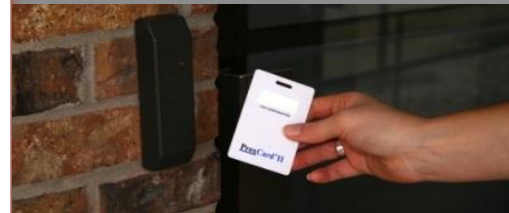
Video Surveillance
Manager 7

IP Cameras



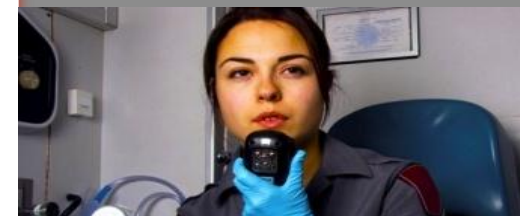
Medianet High Definition
6000 Series IP Cameras

Access Control



Multi-factor
authentication

Unified Incident Communications



CER, IPICS, P25 ISSI
Gateway, Android Mobile
Client Apps, etc.

End-to-End: Medianet Enable IP Network

Virtualization

Security

Management

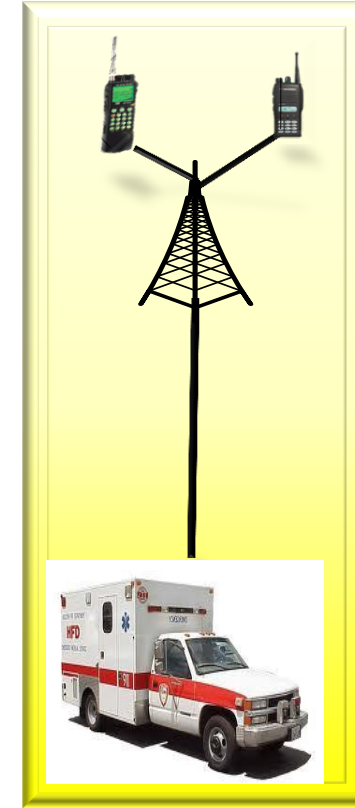
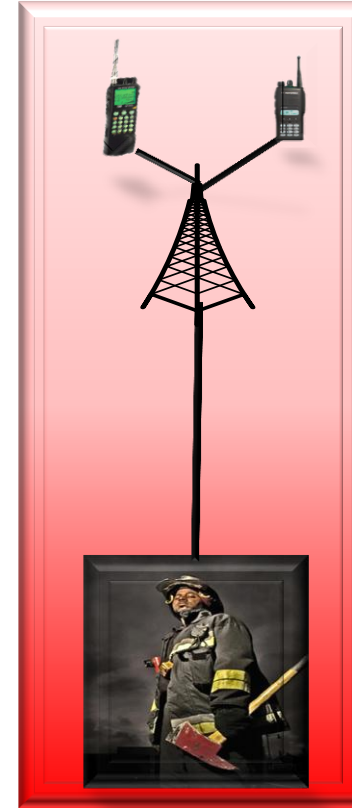
Cisco IP Interoperability and Collaboration System (IPICS) - Overview



Today's Current Operating Environment ... Silo'd Systems

Lack of Situational Awareness

- *Parallel Networks*
- *Radio outages*
- *Restricted Radio coverage*
- *"Arrive and Report" model*
- *Serial Operating environment*



The IPICS Solution Architecture... Push to Everything!



Assets Subscriptions

Publish Assets

IPICS Server

Subscribe to Assets

Pooled Assets



LMR

VHF/UHF/Nextel
PTT Radios



Dispatch Console



Mobile Client



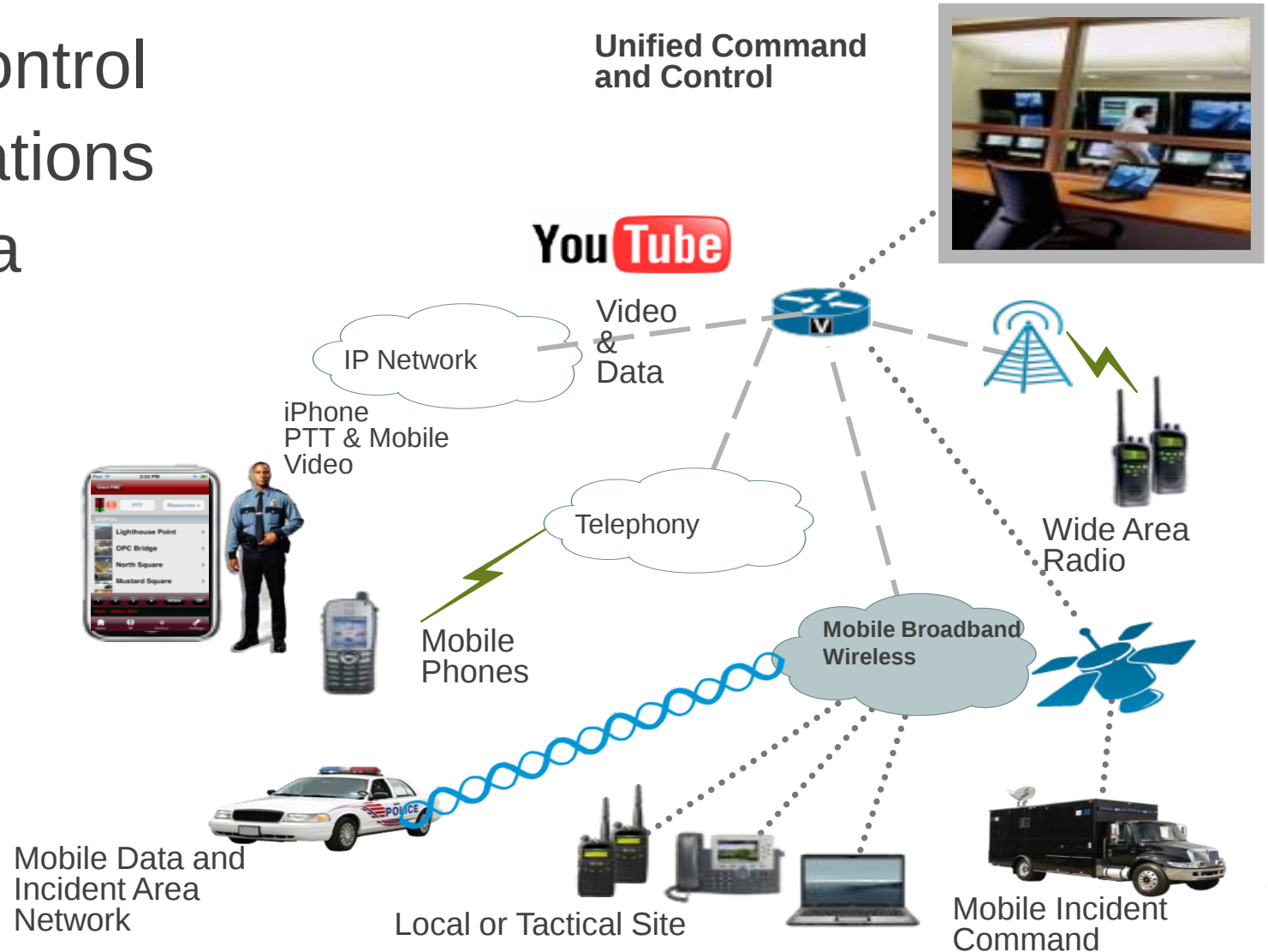
Video Surveillance



Unified
Communications

IPICS Overview any-to-any enabled Collaboration

- Unified Command & Control
- Converges Communications
- Mobility and Rich Media
- Situational Awareness
- Collaboration
 - Any Device
 - Any Network
 - Any Organization
 - Any Media



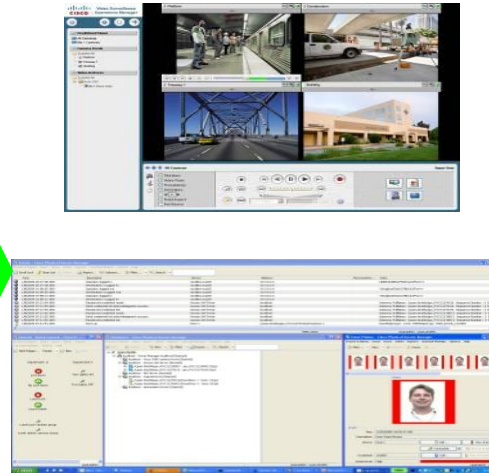
Threat Incident work flow

Threat Detection



- Cameras
- Alarms
- Sensors

Threat Monitoring



- Video Surveillance
- Access Control
- Intrusion Detection, etc.

Threat Response



- Dispatch Console
- Radio Dispatch Console
 - Notification
 - Collaboration

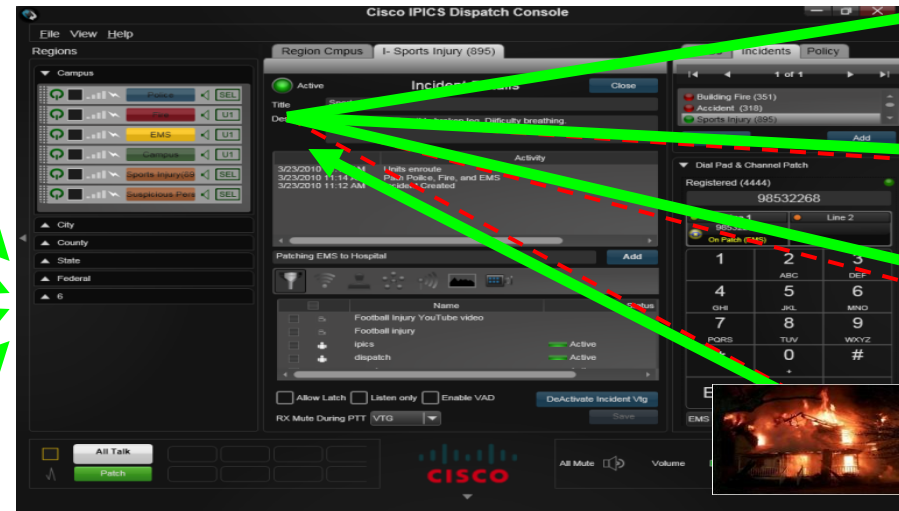


The Next Generation in Incident Response and Situation Awareness

Detection and Monitoring



Response

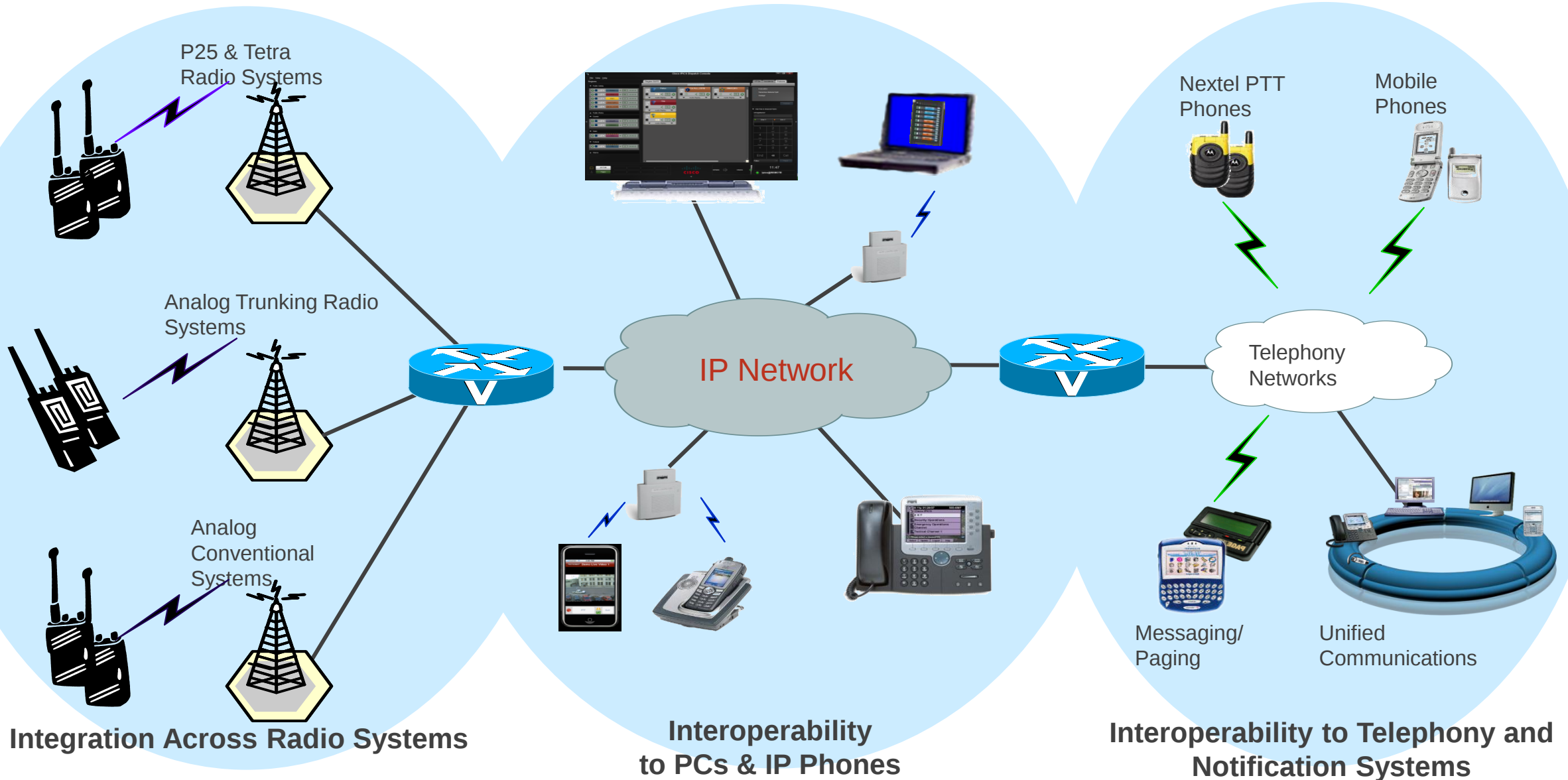


Cisco IPICS
Dispatch Console

Why IPICS

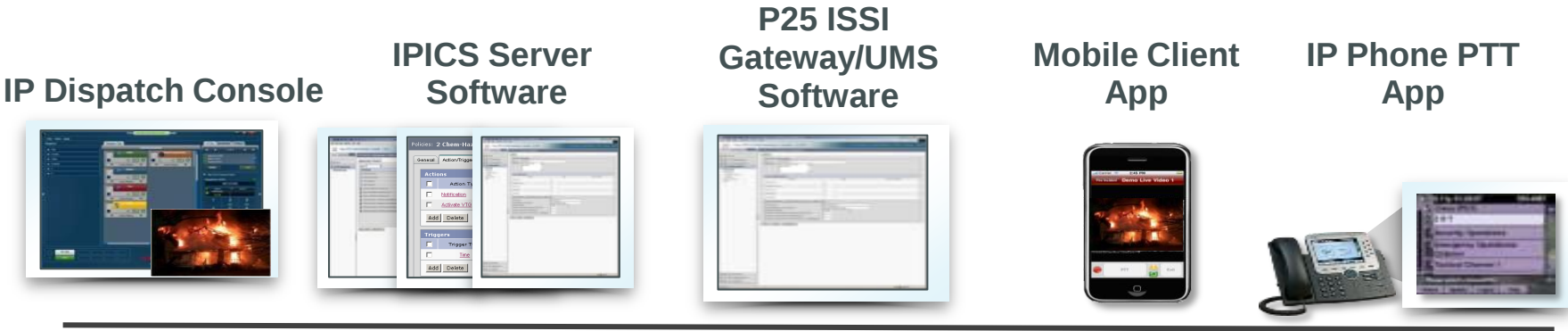
- **Mission Critical-** extend unified communications to include PTT radio users
 - Customers can **integrate push to talk** communications into UC infrastructure
- **BYOD-** **Extend collaboration and video surveillance to iPads and iPhones**
 - existing security customers can now have **mobile video** reaching where surveillance cameras don't and **collaborate** on the way to an incident
- **Radio over IP-** **no longer tied to expensive portables**
 - When the IT/Security travel they can still **securely collaborate** using IPICS mobile client over 3G/LTE and Cisco any connect
- **Fast-Automatic Notification-** not tethered to the desk, **increases visibility**
 - the **right people** are **notified** to join incidents triggered by alarms or events
- **Saves costs-** Improve operations through **automatic ticket response collaboration**
 - Customers set up incidents for each department, mobile users upload video, journal, and use push to talk to collaborate

IPICS Comprehensive Communications Interoperability



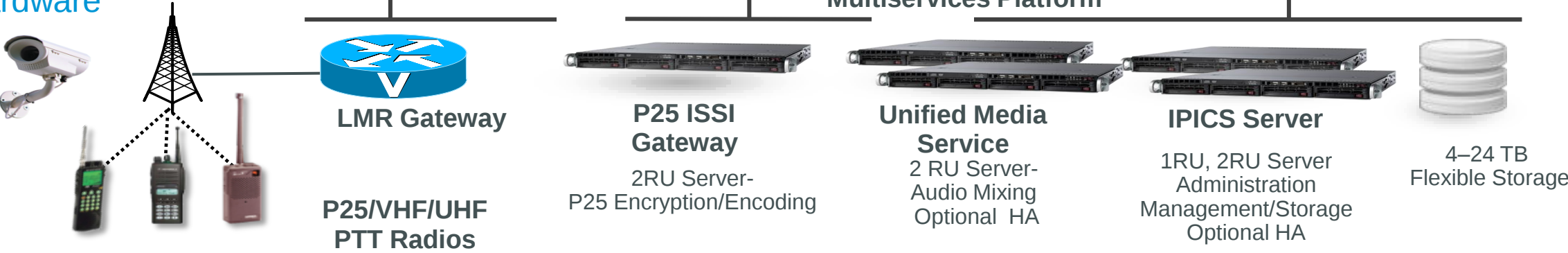
Cisco IPICS Solution Architecture

Cisco IPICS
Software



Secure Medianet-enabled IP Network

Hardware



IPICS User Interfaces



Cisco IPICS Dispatch Console

Integrated
Video, VTG,
Policy

Radio
Interoperability

Virtual Talk
Groups

Multiple Channels,
Users, Phones

Simple
Patch

P25 Supplemental
Radio Services

Integrated
10 Line Telephony
Client

Cisco IPICS Dispatch Console (IDC) Dispatch Console for PC users

- Allows PC users to perform radio dispatch enabling PTT communication from office or remote locations
- Integrates IP-Phone for incoming/outgoing calls
- Provides simple patch capabilities
- Extends dispatcher ability to share live/stored video, pictures and text with field

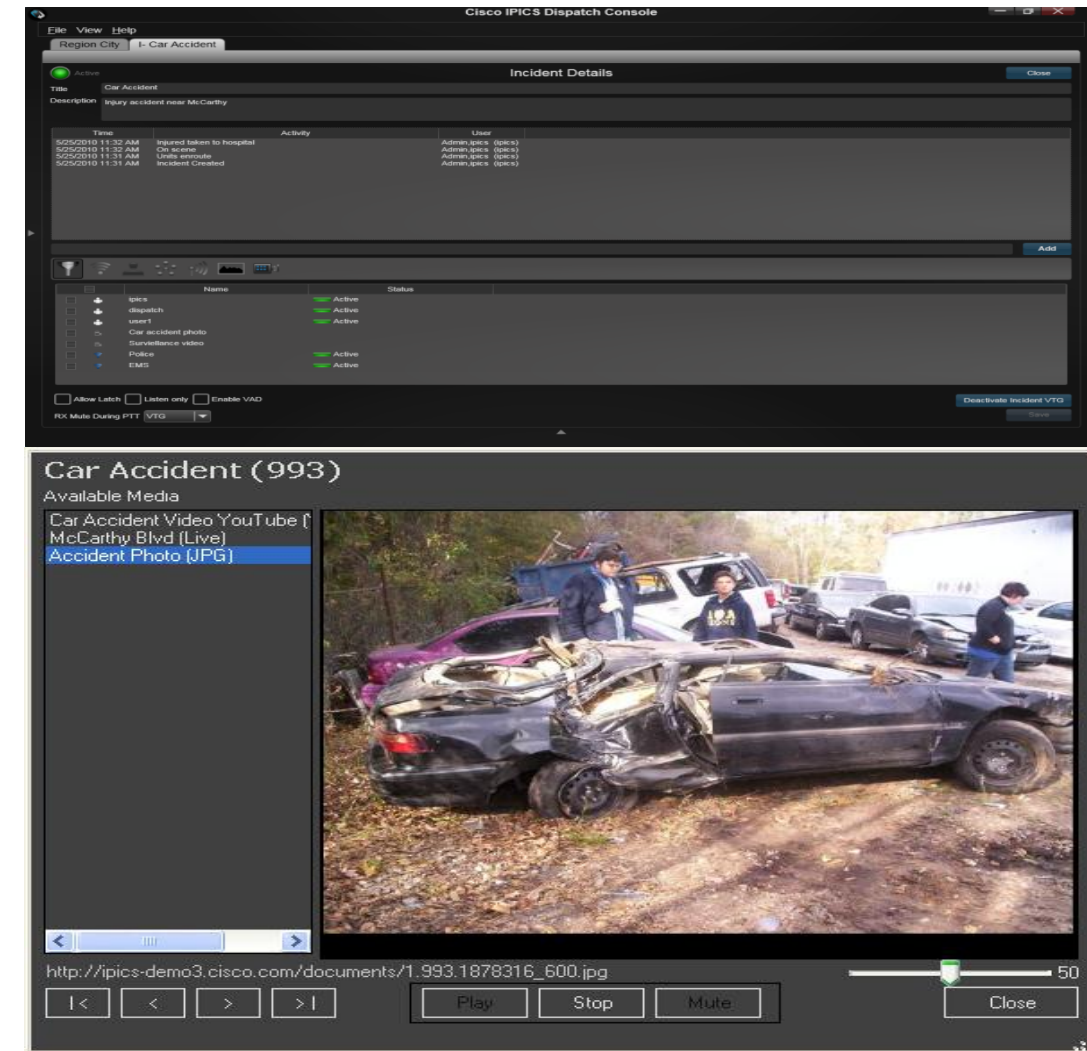


IPICS Dispatch Console

Extends to PC users radio dispatch capabilities previously reserved for hardwired dispatch consoles

IPICS Incident Management

- Rich Media Collaboration
- Create secure collaborative session between dispatch and responders in the field
 - common PTT talkgroup between radios, phones, PCs and cell phones
 - share live/stored videos, pictures, maps, documents and status
 - Archive incident information for later case management



Cisco IPICS Mobile Client

Mobile phone application for responders in the field

View:

- incidents
- status journal
- media (video, pictures, etc.)

Add:

- status updates
- media (video, pictures, etc.)

PTT w/radio interoperability

Secure access to media

3G, 4G/LTE and WiFi support



IPICS Mobile Client

Puts mobile rich media incident collaboration into the hands of the responder in the field

Cisco IPICS Mobile Client (cont.)



View assigned incidents



View available media choices within an incident



Cisco IPICS Mobile Client (cont.)



View live video within incident

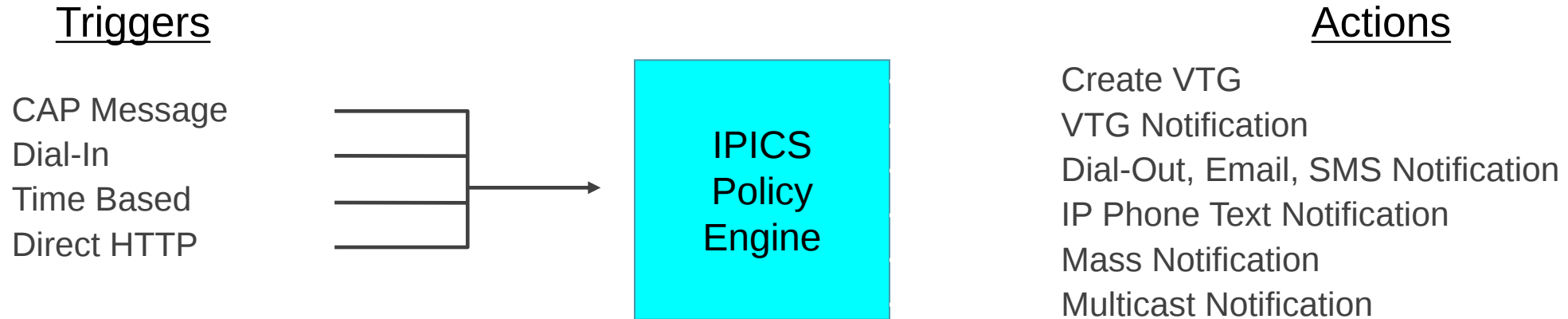


Participate in PTT session with radios



Add media to incident

The Policy Engine Drives Advanced Services



Advanced Application Examples

- Trigger: Accident w/injuries
 - Action: Activate VTG, add channels and send notification of emergency
- Trigger: Security event at a University
 - Action: Priority notification to first responders via phone and radio
 - Action: Notification to second responders via phone, page, text and IM

IPICS Benefits

- **Simplifies Process:** Brings together multiple dispatch controls into single platform (phone, radio, video, text)
- **Leverage the Network to reduce costs:** Use IP phones and existing IP network to reduce operational costs. No more proprietary communications or remote interfaces.
- **Dispatch Mobility:** IDC moves with the user versus old world dispatch console stays where it is installed
- **One Click Collaboration and Notification:** The IPICS policy engine allows disaster and incident preplanning to simplify operations when there's an emergency
- **Radio Interoperability and Rich Media:** IDC built on IPICS technology and supports multi-agency audio and rich media collaboration versus old world dispatch console locked to fixed radio channels/talkgroups
- **Differentiation:**
 - Incident with live/stored video, pictures, journal, etc
 - VoIP PTT, Mobile Client, and dial in/dial out PTT capability
 - Integrated Policy Engine
- **Incident and Policy Engine** Application Programming Interface (API) for CAD and PSIM integration

Thank you.



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