Cisco IPICS Mobile Platform

Simple, Scalable Comprehensive Communications Interoperability— Wherever Needed

During critical incident response and relief operations, establishing highly secure, reliable communications and interoperability among the people and agencies involved can be as challenging as the mission itself. Often there is limited or no network connectivity to the command center, and the entire operation relies on mobile or tactical networks. Participating agencies cannot communicate directly with each other because they use incompatible push-to-talk (PTT) radio systems that do not work with each other or with cell phones, public switched telephone network (PSTN) phones, or IP phones. Notification presents another challenge because in crisis situations it is difficult to remember all the right people to notify and how to reach them. Standard operating procedures may be gathering dust in a manual.

For first responders, tactical operations, and service agencies, these conditions are the norm. Now Cisco® and CACI International, Inc. provide an easy-to-use, scalable, comprehensive solution for communications interoperability - optimized for mobile operations in rugged conditions.

Cisco IPICS System: Mobile Platform

The Cisco IPICS portfolio of products and applications provides cost-effective and comprehensive communications interoperability between push-to-talk (PTT) radio systems and devices such as mobile phones, IP phones, public switched telephone network (PSTN) phones, and PC clients. Based on proven IP standards, Cisco IPICS takes advantage of ubiquitous IP networks to extend the reach of traditional communications networks and also to provide notification using email, pager notification, and Short Message Service (SMS). Using Cisco IPICS, public sector agencies and enterprises can intelligently apply resources to streamline operations and rapidly respond to routine events as well as emergencies.

Cisco IPICS-Mobile Platform (IPICS-MP) is designed explicitly for agencies that need to rapidly establish secure communications in any location - even in mobile command vehicles. It was developed in partnership with Panasonic and CACI, a federal Cisco Gold Certified Partner that provides IT and network solutions for today's new era of defense, intelligence, and e-government. Cisco IPICS-MP enables agencies and departments to communicate using their existing devices and networks and to dynamically reassign resources, including users, channels, and talk groups, as the incident situation changes.

Delivers the Right Information in the Right Format to the Right People at the Right Time

Cisco IPICS-MP empowers agencies to collaborate and coordinate across geographical, organizational, and ownership barriers:

- Comprehensive communications interoperability over IP: Sending all communications traffic over the IP network enables communications between previously isolated "silos" of incompatible devices, applications, and networks.
- Extended reach: Personnel can communicate when they are outside of radio range using PSTN phones, cell phones, IP phones, or PCs with Cisco IPICS Push-to-Talk Management Center (PMC) software.
- Enhanced incident management: The Cisco IPICS Policy Engine enables one-click activation of previously defined policies for notification, which can include PSTN dial-in and dial-out, e-mail, paging, and SMS.

Measurable Advantages

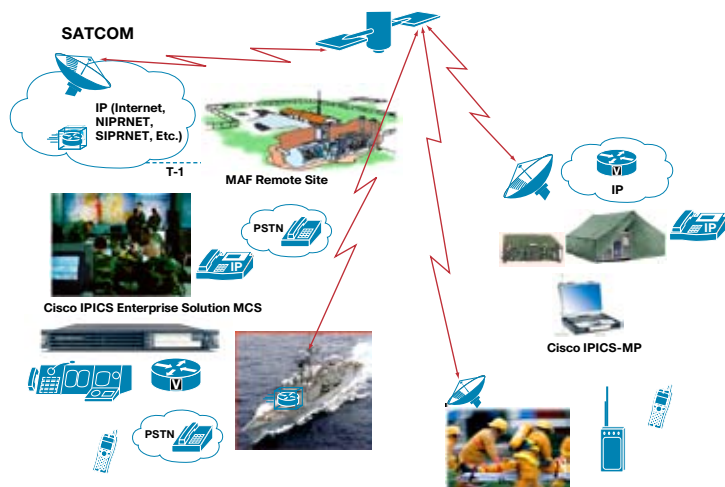Agencies now have a communications platform designed specifically for their rigorous demands:

- Resilience: IP networks are more resilient than radio infrastructures, which are subject to physical failures from fire, earthquake, power outage, and more.
- Flexible command and control: Cisco IPICS-MP can be managed from a central operations center or remotely from any connected PC with a Web browser.
- Faster response time: By enabling direct communication among personnel using different devices and networks, Cisco IPICS-MP avoids the delays of communicating through a dispatcher, and automated notification processes save more time.
- Lower costs: Multiple agencies and departments can securely share resources, including users, radio channels, and talk groups.

Mobile Interoperability

The Cisco IPICS-MP software is provided on a ruggedized Panasonic Toughbook, which is built for the rigors of extreme environments;

- Convenient size and weight
- Extended battery life
- Rapidly deployable in vehicles, mobile command centers, and in the field

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Figure 1 Cisco IPICS-MP Enables Comprehensive Communications Interoperability, Even in Extreme Environments

A Powerful Resource for Critical Operations

Cisco IPICS-MP is suited for any government operation that requires an easy-to-use, scalable, comprehensive solution for communications interoperability:

- Emergency response
- Command centers, stationary, and vehicle-based
- Homeland security

A Practical Investment

Cisco IPICS-MP protects federal agencies' existing investments in radio systems and networks, and avoids the expense of unnecessary upgrades to radio networks. It also enhances the value of existing applications, equipment, and networks:

- Reliability: Cisco IPICS-MP provides the inherent resilience of IP networks, unlike server- and appliance-based applications that have a single point of failure.
- Investment protection: Integrated IP standards and protocols in Cisco IPICS-MP enable agencies to continue using existing communications resources such as land mobile radio (LMR) PTT radios.
- Policy-based automation: Cisco IPICS Policy Engine enables administrators to create policies that define standard operating procedures - including talk group establishment and user notification - and then activate those policies with a single click.

Fully Supported Cisco IPICS-MP Comes Complete with Expert Service and Support from CACI, Increasing ROI

Why Cisco and CACI?

Cisco and CACI work together to offer industry-leading services that make networks, applications, and the people who use them work better together; these services deliver measurable results to first-responder, tactical operations, and service agencies. Advantages of working with Cisco and CACI include:

- Financial stability: Radio systems have very long life spans, and municipalities look for a vendor with financial health and stability to provide continued support.
- Independence from radio vendors: Cisco IPICS works with any vendor's radio system, giving municipalities the flexibility to deploy the system that best meets its business needs at the time.
- Availability of local partners for support: Organizations that deploy Cisco IPICS can receive deployment assistance and ongoing support from Cisco Advanced Services or local Cisco Advanced Technology Partners.
- Integrated IP: Whereas other vendors have approached radio interoperability by layering an application on top of the IP network, Cisco designed Cisco IPICS from the beginning to take full advantage of the inherent advantages of IP, including open standards, availability, redundancy, resiliency, and scalability. Integrated IP makes Cisco IPICS a comprehensive communications interoperability platform that is faster and has a longer life than interoperability systems that use IP for transport alone.

Technical Specifications and Ordering Information

Power

- Intel Core Duo Processor L2400 (2-MB Layer 2 cache)
- External battery charger
- Vehicle power adapter

Durability

- Full magnesium alloy case with handle
- Moisture- and dust-resistant LCD, keyboard, and touchpad
- Sealed port and connector covers
- Shock-mounted, removable hard disk drive in stainless steel case
- Vibration and drop-shock resistant design
- Rugged, dust-resistant hinges

Convenience

- Dimensions (H x W x D): 2.8 x 11.9 x 11.3 in. (with handle)
- Weight: 8.2 lb, including battery, floppy disk drive, and handle
- Sealed rubber LED backlit keyboard
- 13.3-in. touch screen display upgrade

Functions

- Global Positioning System (GPS) receiver
- SmartCard reader (occupies one Type II PC card slot)

Licenses

- Built into the Cisco IPICS Server license
- Cisco IPICS PMC license
- Cisco IPICS Phone Client license
- Cisco IPICS Server Software (CIS-IPICS-K9) with licenses to support 4 Cisco IPICS channel and radio (LMR) ports, 4 Cisco IPICS PMC Clients, 10 Cisco IPICS Phone Clients, 2 Cisco IPICS Operational Views, and 50 Cisco IPICS Virtual Talk Groups (VTGs)
- Additional licenses can be purchased up to a maximum of 10 Cisco IPICS channel and radio (LMR) ports, 10 Cisco IPICS PMC Clients, 2 Cisco IPICS Operational Views, 10 Cisco IPICS Phone Clients, and 50 Cisco IPICS VTGs
- Additional licenses available for Cisco IPICS Policy Engine and Cisco IPICS Policy Engine Dial Port

Support

- Service and support provided by CACI
- Customization of PMC and incident management console provided by CACI

Table 1   Ordering Information

Part Number	Production Description
IPCM1-P30	- CACI Mobile Cisco IPICS Server; Panasonic Toughbook CF-30 with 4-GB RAM, - 3-year warranty; includes Cisco IPICS Server Software, 4 channels, 4 Cisco PMC Clients, and 10 IP phone access licenses; server and PMC client maintenance updates for one year from date of purchase - One-year CACI Technical Assistance Center (TAC) support is included.

Figure 2   Rugged and reliable: Panasonic Toughbook 30

Ordering Information

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