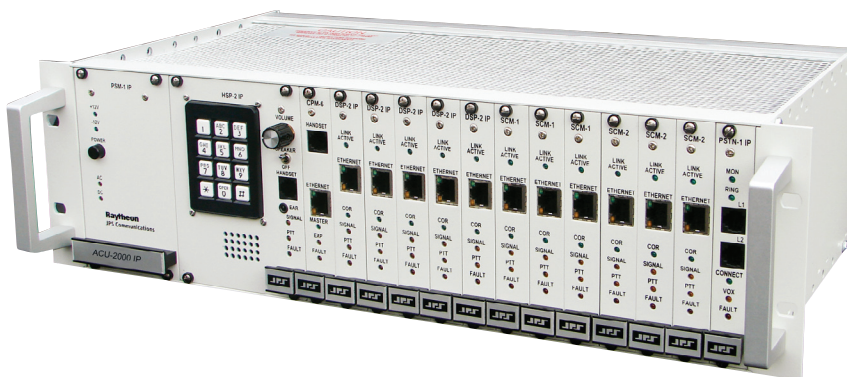# Raytheon: Enabling Communications Between Radios and Phones

How can public safety, security and other enterprises communicate across organizations, campuses and regions regardless of the radio type or IP communication platform used?

With the ACU-2000 IP gateway from Raytheon Civil Communications Solutions, a Gold-level member in the Avaya DevConnect Program, organizations can digitally connect their mobile radio fleet and their SIP telephones, network and devices. The system links mobile radio users into the network, giving them some of the same features and functionality as a telephone user. Administrators can monitor and control disparate communications systems over an IP network, allowing radio as well as telephone users to participate in interoperability conferences.

The SIP interoperability of the ACU-2000 IP gateway allows a remote user with access to a SIP device and network connection to communicate via radio from any remote location by simply dialing an extension. The ability to easily share critical information in real time helps better coordinate personnel and resources for a more effective response during routine activities and emergency situations.

The ACU-2000 IP is a modular, completely scalable and field configurable system. It includes a distributed network design that helps maintain local operation continuity in the event of a network failure.

The system works with the following Avaya products:

- **Communication Manager** – An open, scalable, and highly reliable telephony solution that provides centralized call control for a resilient, distributed network of media gateways and a wide range of analog, digital and IP-based communication devices

- **IP Softphones** – The simple graphical user interfaces and Microsoft desktop application integration make it easy to place and receive phone calls from a PC or laptop – ideal for working from any location with an internet connection.

- **SIP Enablement Services (SES)** – A bridge between Avaya MultiVantage™ applications and a wide range of standards-based user agents, web-based

applications and communication devices, creating a highly scalable, highly reliable SIP communications network that supports telephony, instant messaging, conferencing and collaboration.

Features

The ACU-2000 IP gateway creates a direct connection between two-way radio systems and an organization's IP network, effectively transforming each radio into a station port off the Avaya communications system. Administrators can connect, monitor and control their different radio systems via their IP network. Additionally, the solution:

- **Brings the many advantages of the open-standards SIP protocol to radio systems** and adds radio functionality to existing SIP networks

- **Gives two-way radio users access to features that have traditionally been available only to telephone users,** including the ability to directly call telephone extensions and use call forwarding, call logging, conferencing and call recording

- **Provides IP control** over a large interoperability system

- **Connects radio systems at multiple sites** across an IP network

- **Provides remote access to change radio channel** or frequency over IP

In addition, the ACU gateway allows:

- **Different radios and frequencies** to talk to each other

- **Radios and linked telephone users to talk from any company location around the world** via the Internet, Local Area Network (LAN) or Wide Area Network (WAN)

- **PCs equipped with wireless cards or other IP connections to communicate** with radios and linked telephones regardless of location

- **Administrators to see radio, telephone and connection status** from a PC with IP connection

System Requirements

The system requires a four-wire interface to the audio device microphone and speaker, preferably with a Raytheon manufactured cable. The ACU also requires rack mounting and indoor use.

ABOUT DEVCONNECT

The Avaya DevConnect Program provides a wide range of developer resources, including access to APIs and SDKs for Avaya products, developer tools, technical support options and training materials. Registered membership is free to anyone interested in designing Avaya-compatible solutions. Enhanced Membership options offer increased levels of technical support, compliance testing, and co-marketing of innovative solutions compatible with standards-based Avaya solutions. To learn more, or register for membership, please visit **www.avaya.com/devconnect**.

Learn More

For more information on how Avaya Intelligent Communications can take your enterprise from where it is to where it needs to be, contact your Avaya Client Executive or a member of the Avaya Authorized BusinessPartner program, or visit **"Do Your Research"** at **www.avaya.com**.

ABOUT RAYTHEON CIVIL COMMUNICATIONS SOLUTIONS

Raytheon Civil Communications Solutions meets the needs of national, state, metropolitan and local governments by enabling information sharing through innovative, interoperable standards-based telecommunication and service-oriented architecture solutions. The company delivers world-class systems integration expertise based on a detailed understanding of current applications, infrastructure and requirements.

For more information, visit **www.raytheon.com**.

ABOUT AVAYA

Avaya is a global leader in enterprise communications systems. The company provides unified communications, contact centers, and related services directly and through its channel partners to leading businesses and organizations around the world. Enterprises of all sizes depend on Avaya for state-of-the-art communications that improve efficiency, collaboration, customer service and competitiveness.

For more information please visit **www.avaya.com**.

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