TRP-1000
Transportable Interoperability

Benefits

- Reliable DSP-Based speech recognizing VOX
- Adjustable audio delay compensation for trunking systems
- Modular design for ease of maintenance
- Real-Time direct communications between multiple radio and telephones
- Radio & Telephone users control system via DTMF
- PIN security built-in
- Local control via Windows-based computer program
- Quickly configurable to meet mission requirements

In the event of a disaster or terrorist attack, the TRP-1000 provides First Responders with the ability to quickly set up and establish a direct communications link with federal, state, and local agencies as they arrive on the scene. Raytheon's TRP-1000 is completely self contained transportable case with radios, antenna, power supplies, and the ACU-1000 unit mounted inside.

The system is operational in minutes establishing a interoperable network for multi-jurisdictional response efforts with the ability to provide communications between HF, VHF Low Band, VHF High Band, UHF, 800 MHz, 900 MHz, trunked talk-groups and encrypted networks.

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TRP-1000 Overview

The TRP-1000 can contain multiple radios, a radio for each organization involved in response efforts - that can be quickly programmed to each organization's transmit and receive frequencies. Radios can then be cross-connected by the ACU- 1000 in a variety of ways, including a mixture of 2-way and conference conversations, as well as a mix of permanent and temporary connections to include radios, telephones and cell phones.

Although Raytheon's TRP-1000 is customizable, a typical system consists of two transportable cases. The primary cases houses the Raytheon ACU-1000, 2 radios (one UHF, one VHF), a radio power supply, and interconnect panels to interface the primary case to the outside world and to the secondary chassis. The TRP secondary case contains 8 additional radios (4 each UHF and VHF), radio power supplies, and interconnect panels. The TRP-1000 includes a laptop computer and special software to control the system, all required interconnect cables, RF output cables, and antennas necessary to operate the system. This is just one possible TRP-1000 configuration.

Applications

Raytheon's TRP system is an excellent tool for emergency management organizations like the U. S. Army Corps of Engineers (COE) and the Federal Emergency Management Agency (FEMA) since the transportable cases can be easily carried into a devastated area and within minutes provide cross-banded operation between FEMA, COE, Red Cross, National Guard and local law enforcement personnel. Similarly, in 911 applications, the TRP-1000 can prevent overloading the local 911 Center during a large scale emergency by providing direct radio interoperability of various emergency personnel outside of the 911 Center's normal communications circuits.

Response Scenario

An excellent response scenario created to enforce the effectiveness of Raytheon's TRP-1000 would be a hazardous materials spill. During such an emergency HAZMAT, EMS, Fire and Law Enforcement personnel would need to operate on alternate cross-connected frequencies leaving the 911 Center to handle normal emergency traffic. The TRP-1000 system could be configured to provide total system requirements for field or base station requirements allowing radio networks of different frequencies to communicate with each other via the ACU-1000. The TRP-1000's modular design can be installed with a variety of radio types and ACU-1000 modules to conform to the customer's mission requirements.

The ACU-1000 allows interconnections, in any combination, between the system's 10 radios and two phone lines. TRP-1000 ACU connection configurations include: phone lines connected to PSTN, cellular or satellite phones, any number of radio users communicating on two separate frequencies, telephone users connected with a radio network, or any number of radio and telephone users interconnected for a conference call.

Features

- Voice prompts and control software provide connection status for each port
- Can interconnect radios in any band including HF, VHF, UHF, P25, 800Mhz, and Nextel
- Radio templates for all supported devices located in controller software
- Control & connection to a WAIS using the WAIS Controller
- External audio connectors for a variety of handset and headset support

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