



## CommTalk™

### Radio communications and dispatch console system



CommTalk, Raytheon's integrated console system, provides secure, dependable, and open communications. Easily customizable, Raytheon is providing the most flexible radio communications and dispatch console system available.

#### Overview

Raytheon's CommTalk Radio Communications and Dispatch Console System integrates the many systems used by public safety dispatchers into a single, intuitive video workstation. Advanced diagnostics, online programming, and a wide range of features make CommTalk the system of choice. System features include:

- A flexible, scalable console system for any size installation
- System support for P25net trunked and conventional radio, legacy radio, and alerting systems
- Fully integrated telephone and web-browsing functionality
- Continuous self diagnostics ensuring optimal performance

#### Designed for Public Safety

Engineered for maximum up-time, the system can be reprogrammed and expanded while in full operation. Each controller in the system has its own dedicated microprocessor to minimize the effect of a card failure. Critical components have hot-stand-bys with automatic fail over should an event occur. Even loss of the central system server will not cause the loss of calls in process. Diagnostics and programming can be performed off-site to minimize disturbances to on-going dispatch during routine maintenance.

#### Scalable Architecture

Raytheon's modular hardware and software approach makes the system affordable for the smallest of systems yet powerful enough for the largest control centers. This flexibility allows customers to add new protocols as growth dictates without requiring expensive upgrades.

#### Workstations

The CommTalk workstation includes a flat panel display and Windows-based computer. Each workstation can store multiple screen layouts and channel configurations allowing any position to serve as a backup for the others and dispatchers to select screen layouts that are the most comfortable for them to use. A dedicated digital audio processor is used at each position to assure consistent, clean audio regardless of the PC task load. Should the PC fail, the dispatcher can continue to operate on the channel that was currently selected.

#### Flexible User Interface

Emergencies may require a console to be operated by replacement personnel. An intuitive operating screen reduces stress and allows dispatchers to focus on the incident rather than the equipment. CommTalk features both text-based and touch-screen interfaces. The text-based GUI allows the most efficient use of screen real estate for busy systems with many sites and options. The touch-screen GUI allows extra space between controls to ensure that the touch does not activate a function that was not intended.

#### Redundancy

Redundancy is standard for all components should a major system outage occur. Power supplies use N+1 hot swap modules to assure continuous operation. Each component shelf has two controller cards, either of which can operate the system. Should a failure occur, switch over is automatic and virtually invisible to the dispatcher. The system server has redundant power supplies, network interfaces and RAID 1 hard drives.

## P25 Systems Integration

### APCO Project 25

Raytheon consoles are P25 compatible enabling radio communications system to seamlessly join P25 networks. Raytheon's solution, which features FIPS 140-2 compliant voice security using the Advanced Encryption Standard (AES), ensures communications systems take full advantage of the P25 domain.

### Systems Integration

Raytheon's systems integration experience ensures complete customer satisfaction. Relying on standards-based technology, customers benefit from choosing best value solutions from a field of vendors to meet their specific requirements, and therefore avoid being confined by proprietary solutions. Leveraging more than 85 years of proven systems integration experience in fielding complex communications systems, Raytheon delivers innovative and cost-effective solutions for commercial, civil, international, government and military customers.



Agencies can customize the screen layout of their own workstation - as well as resources displayed - allowing them to better control their access to information and maximize operations efficiency.

### General

<b>System Capacity:</b>	Virtually unlimited with no specified limit on number of dispatch positions, radio resources or auxiliary controls.
<b>System Architecture:</b>	IP-based. Redundant Node Servers with hardware audio processing. Passive backplane. Wireline or VoIP connected console positions.
<b>Self Diagnostics:</b>	Continuous self diagnostics including cards in hot-standby mode. Diagnostic messages sent to designated positions and Maintenance Terminal upon detection of any abnormality.
<b>Self Healing:</b>	Automatic transfer to redundant server node upon failure of active server. Automatic transfer to hot-standby system controller upon loss of active controller. Automatic transfer to hot standby interface controller (if present) upon loss of active controller. N+1 redundant power supply modules.

### Optional Interfaces (contact Raytheon)

<b>Video Interfaces:</b>	Security Cameras, traffic cameras, weather maps, national news stations, local news feeds.
<b>External Time Sync:</b>	Synchronizes system clock to external NTP source such as Spectracom NetClock.
<b>Digital Telephony, E-911:</b>	Integration with digital PBX and E-911 systems using SIP, T1, or ISDN interface.
<b>CAD Interface:</b>	Control and status of selected console functions via Computer Aided Dispatch system.
<b>Vehicle ID Systems:</b>	Supports most legacy Vehicle ID systems (MDC-1200, G-Star, DTMF, FleetSync).

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