

IRCS

Integrated auto-routing Radio Communication System



From command posts to front-line soldiers, Elbit Systems of America's IRCS is an advanced military communication system that enables military personnel to directly communicate with one another across one network. With IRCS, you will have reliable operational coordination, command and control, and an overall complete picture of the operations and events. The IRCS gives you control of the operation.

The IRCS offers armed force essential benefits:

- Maximum communication adaptability and flexibility across various networks (VHF, HF, and Multi-Channel radios, LAN, WAN, PABX, satellite, and cellular)
- Interoperable with existing and older-model radios.
- Integrated into one harmonious system fitted to the need of the modern armed forces- land, sea, aerial, and satellite.
- Can be combined with other operation networks: public safety agencies, state and local emergency services, government institutions, etc. Such integration is crucial in large-scale disaster recovery operations involving a wide range of operation units and forces.
- Each communication hub serves as a backup for every other hub within in the IRCS, maximizing the overall reliability and durability of the military communications network.
- Eliminates the need for multiple communication systems.
- Enables easy usage of Voice and Data services with its automatic priorities, routing capabilities, and its highly sophisticated Network Management System.

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IRCS Building Blocks

- CCT (Communications & Control Terminal) /Tactical CCT (Tacter-31 or RPDA)
- NAT (Network Access Terminal) / Tactical NAT (Tacter or RPDA)
- DTMF phones / Cellular phones
- Satellite terminals
- Stand-alone radio equipment (HF, VHF, UHF)
- Multi-net Audio Terminals (Navy/Air Force applications)
- VRG (Voice over IP Radio Gateway)
 - VoIP technology + PTT
 - Audio switching capabilities
 - Voice conference
 - Voice relay between radio networks
 - Reliable radio RX voice detection
 - Simultaneous operation of multiple radio nets
 - Enables full control over radio equipment
 - Proven operating interfaces with more than 40 different types of radios worldwide

Every point to any point communications: IRCS provides military personnel at all levels direct command and control of every event and operation – a mile or thousands of miles away.

System Services

Voice, data and video communications

- Seamless voice and data communications within all levels of the military network.
- Video teleconference on wideband links.

System Management Capabilities

- IRCS Remote Control capabilities enable system administrators to:
 - conduct performance evaluation and Built-In Tests
 - update data-bases
 - program radio frequencies
 - manage and distribute encryption and frequency hopping keys
 - conduct maintenance of every communication device within the IRCS



All IRCS management functions can be performed from almost every location, and affect any communication device and element within the system, down to the last radio transceiver. At a touch of a button, all the devices within the IRCS can be adjusted and updated – simultaneously or one by one. Different management functions, distribution of encryption and frequency hopping keys for example, can be executed automatically, at specified intervals.

- IRCS automatic communication log tracks and records every communication link made within the system, providing military commanders and other decision makers essential information which can be used to investigate a specific operation or event, improve command and control, and maximize efficiency.

IRCS does away with the slow and cumbersome communication chains associated with legacy military networks, providing fast, automatic and direct operational connectivity.



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