

C⁴I-Connect™ Voice Communication System for Air Force C&C



Manage all voice sessions among C&C sites and airborne missions

Benefits

- Field proven
- Seamless convergence
- User/officer mobility
- Leading edge software for communication planning and fulfillment
- High scalability—thousands of simultaneous users
- Fully secured solution

The C⁴I-Connect is a voice communication system (VCS) designed for the specific needs of air force command & control (C&C). The C⁴I-Connect is high-scale, national system which manages all voice sessions between the C&C sites and the airborne missions. The C⁴I-Connect leverages the most advanced industry standard technologies such as IP, VoIP & RoIP to offer a powerful solution for the air force. Distinctive enhancements include:

Seamless Convergence

The system integrates various types of legacy radios into a single system with wide access over IP. The C⁴I-Connect provides the user seamless access to any HF, VHF, UHF, SatCom radios and to any legacy telephony system.

User/Officer Mobility

A user/officer can be located anywhere in the country and still be able to participate in a mission taking place elsewhere. The C⁴I-Connect recognizes and

authenticates the user. Following successful identification, the user automatically receives his communication profile, including all required radio conferences, to the user's current location.

Communication Planning & Fulfillment Software

Unique software completely automates the signal officer's work. The officer has only to fill out the daily or weekly mission template. The system allocates all required communication resources for these missions. At mission due time, the system sets up all relevant equipment according to mission requirements.

The C⁴I-Connect's enhanced capabilities not only minimize the signal officer's cycle time for new missions or mission changes, but they also optimize the air force's use of communication equipment.



Key Features

Fully Secured Voice Communication Solution

C⁴I-Connect uses the most advanced security techniques currently available over IP to protect voice sessions. Each voice session is isolated from the rest of the IP traffic, and only authorized users can obtain security keys allowing them to participate in a session.

Conference Bridge Capabilities

Military communication applications are characterized by the need for extended voice broadcast and conference capabilities. The C⁴I-Connect answers with a powerful embedded conference bridge that has the ability to run an unlimited number of broadcast or conference calls, each with up to 40 participants.

IP-PBX Capabilities

The system includes a standard telephony SIP softswitch that supports advanced telephony features such as call transfer, caller-ID, and call waiting indication.

Smart Voice Terminal

A smart voice terminal offers a unified interface to multiple, varied communication devices: HF/UHF radios, PSTN telephony, or VoIP broadcast/conference calls.

Digital Recording System

The C⁴I-Connect comprises a built-in recording system that records all voice, data, and video sessions over the tactical network. An easy-to-use debriefing application allows synchronized playback of past mission/events.

Industry Standards

The C⁴I Connect leverages the industry's most advanced standards: IP, SIP, RTP, G.711, G.729, S-RTP, TLP, SNMP v3.

Technological Advantages

- Distributed VoIP softswitch architecture
- End-to-end delay optimization
- High availability: no single point of failure
- Smooth integration with legacy radios

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