

RadioHub® Use Case Validation

Description:

Defense Cyber Operations (DCO) Broad Responsive Agreement (COBRA) Other Transaction Agreement (OTA), W52P1J-18-9-5023, DISA Travel Hub Project was satisfied with the development of the RadioHub® P25 System & Network software successfully validated in May of 2022 by the Federal government. The mission and performance details are outlined in this document for reference, this system is pre-competes and available for direct awards for Federal and DoD organizations, per the terms and conditions of the COBRA effort.

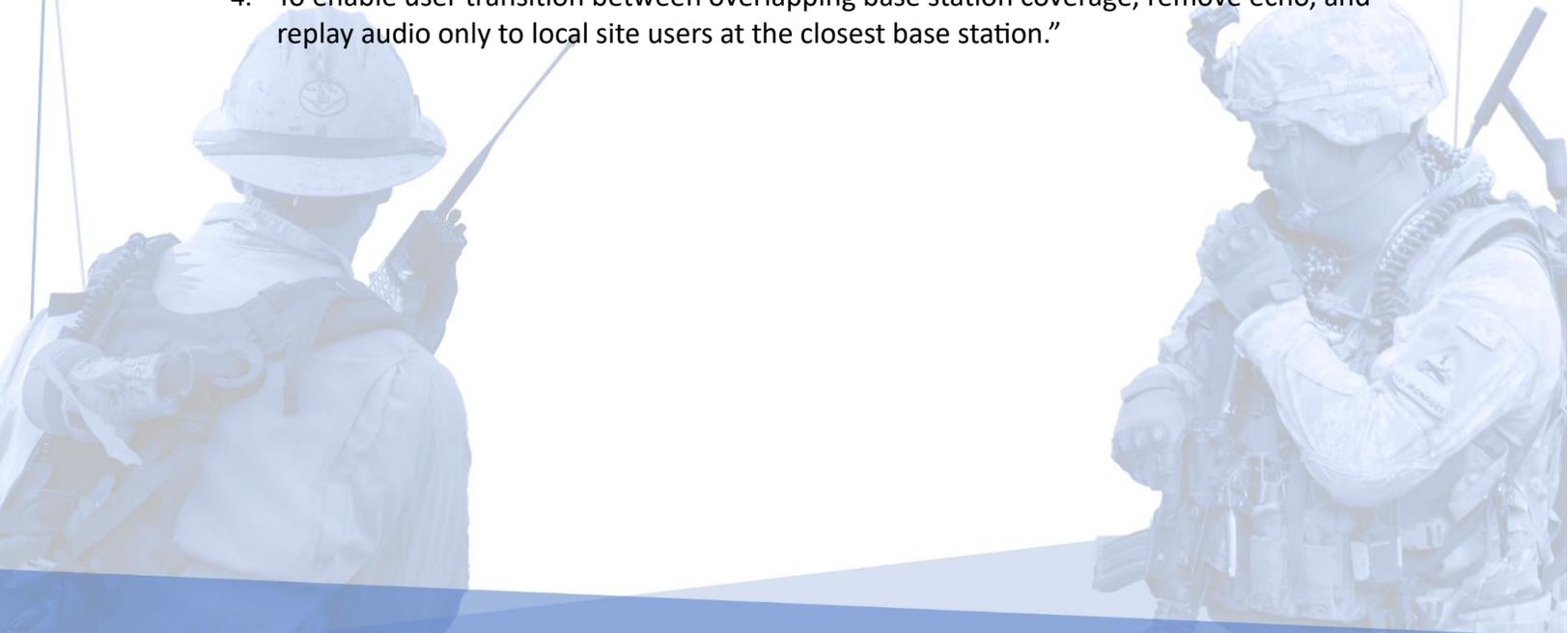
Background:

“The Defense Information Systems Agency (DISA) is responsible for establishing six (6) Very High Frequency (VHF) radio nets across multiple sites utilizing conventional Project 25 (P25) waveform anywhere in the world.”

Objective:

“DISA is interested in modernizing its deployable radio system which includes a travel hub and deployed radio base stations. DISA requires the travel hub solution to be significantly smaller and lighter than the current form factor (the travel hub is 3000 lbs. /900 cubic feet) and uses outdated communications technology. The solution must use the P25 conventional waveform and must be ruggedized to withstand constant travel conditions and settings. The travel hub solution must be able to pass keymat from the Motorola Key Management Facility (KMF) for over-the-air-rekey (OTAR) of the end user radios and base stations. Additionally, the audio traffic must stay encrypted from the end user radio to the hub. The travel hub must integrate with current and future WAVE versions. The travel hub solution must be able to be deployed anywhere in the world. The primary objectives of the desired solution are to:

1. Reduce the logistics footprint of deployable radio packages.
2. Eliminate DISA’s dependency on the PSTN/analog communications.
3. Promote scalability to meet secure radio requirements for all travel missions.
4. To enable user transition between overlapping base station coverage, remove echo, and replay audio only to local site users at the closest base station.”



Results:

The government Cross Functional Evaluation team, documented the following regarding ADCOM's RadioHub solution:

RadioHub System

- Plug and Play (Designed for Tactical deployment)
- Total weight for a radio site is 50lbs (90% lighter than current system)
- Cases are stackable to reduce footprint.
- Hot swap of radio is simple and can be any radio from any other case.
- Maintenance plan was identified for radios and parts.
- The only available redundant Voting capability available

RadioHub Tactical Console:

- Broadcast feature to all sites, all frequencies
- Transmit to all sites on one frequency.
- Playback ability if operator misses radio transmission.
- Auto select for last transmission.
- Reflective power out is less than 30mW across all radios

Customer Support:

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