

Statement of Work for FY23  
CRG – MPU5  
Joint Base McGuire-Dix-Lakehurst

1. General

The FY23 USAF Expeditionary Center (EC) Campaign Plan charges Contingency Response (CR) forces to be ready to operate in the Tier-3 threat environment by 2024. In order to operate in a contested environment, enable Mobility Air Force Agile Combat Employment, and address critical capability gaps listed in the Air Mobility Command (AMC)'s Rapid Global Mobility Capability Gaps Memorandum, AMC must make immediate investments in communications solutions for CR forces. As "first-in" forces providing the Open the Airbase Force Element, CR require reliable, redundant systems that ensure Beyond Line of Sight (BLOS) communications with command-and-control (C2) elements and secure line of sight (LOS) communications between teams on the ground. Current systems are outdated, no longer function reliably, and lack modern technological advances required to create a meshed network between nodes. While long-term enterprise replacements are being analyzed, the 621st and 821st Contingency Response Groups (CRGs) identified interim solutions to bridge acute capability gaps while advancing command level initiatives. These solutions have been socialized with AMC/A6, AMC/A34, AMC/CIG, and 618 AOC.

2. Objectives

The L3Harris multi-channel UHF/VHF handheld radio, AN/PRC-152A, currently possessed by CRG for internal ground communications have reached end of life and some maintenance/repair actions are no longer supported through the manufacturer. Additionally, the radios lack the Internet Protocol capability required to create a self-healing mesh network for teams to share voice and data transmissions on the ground. The CR requires Smart Handheld Radios that meets or exceeds the specs and peripherals of the Persistent Systems Man Portable Unit 5 (MPU5) capabilities that works seamlessly with the Android Team Awareness Kit (ATAK) systems, provides a self-healing mesh voice and data network on the ground and backbone utilizing the multiple-input, multiple-output technology aligning with other DoD efforts that allows extended range and increased bandwidth. The smart radio must have Radio over Internet Protocol (RoIP) capability to integrate with legacy radios, have no node limitation with smart routing capability to prevent communications degradation, have ability to communicate BLOS using cloud relay, and offers radio spectrum diversity to allow flexibility.

3. Scope of Work

This equipment will be used for the 621st Contingency Response Wing (621 CRW) operations, on base and various locations for deployments, trainings, and exercises. The vendor will provide the equipment to improve commercial Satellite Communication, Military Small Communications Package, and LOS communications capabilities. The 621 CRW will be responsible for maintaining the accountability for this equipment.

4. Personnel

The vendor will provide delivery of this item. The maintenance, accountability, and operations of this equipment will be the responsibility of the CRG Combined Communications Work Center.

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5. Equipment Requirements and peripheral shall meet or exceed the specs of:
  - a. Persistent Systems MPU5 and peripherals:
    - MPU5 Chassis – WR-5100
    - High Power S Band RF Module – RF-2150
    - S Band Dipole Spring Base antenna – ANT-2003
    - Antenna Hpol S Band dismounted – ANT-2040
    - MPU5-D to IP67 Ether-F – CBL-DATA-2013
    - MPU5-A to USB-Ethernet Converter – CBL-DATA-2019
    - MPU5 22 pin to 6 pin U-329//u RoIP 36” – CBL-AUD-0001
    - Gen 5 Lithium-Ion Twist Lock Battery – BAT-06
    - Universal Soldier Portable Charger Unit – BAT-05
    - Battery Adapter Plate – BAT-07
    - Ruggedized Display Console System – WR-DISP-SYS-01
    - Dual PTT System – WR-PTT-SYS-03
    - Stereo headset with Dual PTT connector – ACC-AUD-075
    - GPS Antenna – ANT-4001
    - S Band Integrated Sector Antenna – WR-INT-ANT-SYS-01
    - Battery Eliminator Cable – CBL-PWR-0001
    - USB out + USB (TOC Display CBL Kit) – CBL-DATA-3003
    - MPU5 Battery Eliminator to cigarette lighter – CBL-PWR-0003
    - MPU5 22 pin to USB Compatible with all ports – CBL-DATA-2003
    - TOC Speaker Setup – WR-SPKR-SYS-01
    - Tier 2 Cloud Relay Hub Solution Configuration File – Cloud Relay Tier 2
  
6. Deliverables  
 Delivery shall occur within 120 days of award. Items will be verified upon delivery.
  
7. Warranty  
 The contractor shall provide any Original Equipment Manufacturer (OEM) standard commercial warranty applicable to the products being purchased at no additional cost to the Government.
  - Prior to project acceptance, the contractor shall provide the customer with all manufacturer warranties as needed for any component incorporated into this project such as equipment manuals, literature, CDs and DVDs and other documentation on all equipment.
  - Prior to project acceptance, the contractor shall provide written procedures, points of

contact within company, and required information for all warranty services prior to project acceptance. This information shall include written confirmation of the warranty period, phone numbers and contact information/procedures for technical support, troubleshooting assistance, and replacement of faulty equipment.

8. GENERAL INFORMATION: ITEMS MUST BE BRAND NEW. REFURBISHED ITEMS ARE NOT AUTHORIZED.

JANIE J. RAMSEY, Capt, USAF  
Requirements & Resource Flight Commander