

PAC.18.003

PACIFIC ICAN Infrastructure Capability Set
Performance Work Statement



21 August 2018



Background

This Contract provides for the implementation of the majority of PdM P2E's requirements for modernization of ICAN infrastructure for Army Installations in the Pacific theater. It supports the communications systems of Department of Defense (DoD) Combatant Commanders, services and agencies, and crisis and consequence management planning activities worldwide.

Current operational capabilities in the Pacific are in need of modernization to include OSP, ISP and facilities remediation. The modernization required for this effort includes the implementation of Capability Set (CAPSET) upgrades in support of the Pacific theater sites in Hawaii, Guam, Alaska, Japan, Korea, and Kwajalein Atoll. The current capability set infrastructure resides on Non-secure Internet Protocol Router Network (NIPRNET) and/or Secure Internet Protocol Router Network (SIPRNET).

Consolidation of enterprise services provide a secure standardized network that enables global collaboration and access of the required services on any platform, anywhere at any time. The end-state objective of this task is to enable a Unified Capabilities Framework (UCF) / Unified Capabilities Requirements (UCR)-2013 compliant system.

Product Manager Power Projection Enablers (PdM P2E) is responsible for the integration and implementation of Information Technology (IT) infrastructure based on customer requirements to execute IT solutions that support the Pacific Command missions.

Scope

The scope of this project encompasses the functional requirements to Engineer, Furnish, Install, Secure, and Test (EFIS&T) the modernization of Department of the Army (DA) Installation ICANs in the Pacific AOR. The requirement is EFIS&T all Outside Plant (OSP), Inside Plant (ISP), and Facilities Infrastructure including racks, power infrastructure, heating, ventilating, and air conditioning (HVAC), uninterrupted power supplies (UPS), grounding, cabling, hardware, software, or any other materials required to support the modernization of the infrastructure for sites facilities to achieve compliance with government and industry standards. Other U.S. Department of Defense (DoD)/Host Nation (HN) installations, for which Army ICANs are dependent, may be identified as within scope of this effort.

EFIS&T of Inside Plant – Active (ISP-A) are outside the scope of this project.

This effort consists of validating and identifying deficiencies for the current infrastructure through site surveys, developing a design and strategy to modernize and update appropriate Telecommunication Rooms Maintenance Hole/Hand Hole Duct system and Fiber/Copper cable in accordance with (IAW) the Standards & Specifications for the Outside Plant Design and Performance Requirements (OSPDPR) and Technical Criteria for Installation, Information Infrastructure Architecture (I3A), DoD UFC 3-580-01, and as approved by the USG.

The Contractor shall provide all required Program Management Support including but not limited to Configuration Management, Cybersecurity, and Logistics support.

The Contractor shall conduct new equipment training support, when required, for equipment it installs.

Location and Period of Performance

Contractor shall primarily work at the Contractor's facility. All implementation shall occur on-site within the Pacific Theater which includes Korea, Japan, Alaska, Hawaii, Guam, and Kwajalein Atoll and other minor DOD sites throughout the Pacific Area of Responsibility (AoR). The Period of Performance (PoP) shall be one (1) contract period lasting five (5) years from award.

a) The **base award** shall include the following tasks:

- The Contractor shall provide all Programmatic, Contract Management, and Engineering oversight for the project (called the Management, Engineering, and Installation Support (MEIS) "Core Team"). (Base Year)
- The contractor shall also include the effort required to conduct the physical survey of the Pacific AoR Installation OSP Infrastructure supporting the ICAN. The surveys should include assessment of the OSP, ISP, and facilities for remediation in order to analyze and provide more accurate updates to their Contractor Work Breakdown Structure (CWBS) and associated cost estimates.
- The contractor shall conduct all surveying and engineering, when required, for ICAN Capability Sets project at each location.

b) Contract Options that may be exercised, in no particular order, are identified in the Pricing Workbook.

Functional Requirements

Assumptions and Dependencies

- Delays and/or interruptions in the work schedule may occur due to changes in the program schedule. Changes beyond the government's control may require changes in the sequence or schedule for executing various tasks throughout this Program. The government will notify the contractor (written, verbal) at the earliest possible date when changes occur. Contractor shall manage their performance in such a way to minimize the costs of delay.
- Contractor shall be responsible for coordinating installation site access prior to arrival at the work location. In the event that site access is properly coordinated and access is not possible upon arrival at site, Contractor shall anticipate site access delays of up to 5 business days under normal operating conditions and up to 21 business days during any JCS Directed, US INDO-PACOM Coalition (sp) and USARPAC Service Component bi-annual exercises.
- No Government Furnished Equipment (GFE) installation tools or Test, Measurement, & Diagnostic Equipment (TMDE) shall be available for use by the Contractor on this project. Installation tools and TMDE required for the equipment installation, cable fabrication, testing of equipment and cabling, and to support the burn-in testing and traffic migrations shall be the Contractor's sole responsibility.
- This ICAN Capability Sets (CAPSET) Pacific project contract is part of a larger P2E Unified Capability Set Portfolio that is being executed to complete the modernization of

OCONUS Voice, VOIP, Data Networking and Visual Information Systems. The Contractor may have elements of their scope which overlap with scope elements of other Capability Set Portfolio Contracts. The ICAN CAPSET contract is responsible for the modernization of the data networking systems modernizations throughout the Pacific and is the primary vehicle for the activities within that scope. ICAN CAPSET shares elements of common scope that are part of the Capability Set Voice Pacific (CSVP) program. The overlap in scope elements is required to ensure that CSVP is able to complete VoIP System Upgrades. The Contractor shall be informed of the other Capability Set Pacific contract activities by the government and shall incorporate any relevant considerations into their planning, engineering, and execution activities. This ensures that ongoing data network modernizations are considered during Engineering and/or installation activities.

Overview of Systems

This effort consists of validating and identifying deficiencies for the current infrastructure through site surveys, developing a design and strategy to modernize and update appropriate Maintenance Hole/Hand Hole Duct system, Fiber/Copper cable, Core Nodes, ISP and TR's IAW the Standards & Specifications for the Outside Plant Design and Performance Requirements (OSPDPR) and Technical Criteria for Installation, Information Infrastructure Architecture (I3A), DoD UFC 3-580-01 and as approved by the United States Government (USG).

Tasks

Base Award - Management, Engineering, and Support (MES)

The Contractor shall provide all required support to ensure a timely and quality delivery of the requirements within this Contract. The Contractor shall provide overarching support across the contract and for at least the following functions:

- Project Management and Engineering Oversight
- Initial Site Surveys of selected locations
- Scheduling
- Logistics Support
- Document Editing and Publishing
- Knowledge Management
- Cybersecurity
- Technical Drawing/Drafting

Additional detailed Program Management Requirements are found within this PWS, Para 7. Ultimately, the Contractor is responsible for ensuring an efficient but effective support structure to ensure the successful, timely, and quality delivery of the requirements of this contract in successfully controlling and minimizing cost. The Contractor shall document their approach in its Project Management Plan (PMP) (**CDRL B001**).

List of Sites

See Appendix E for a list of specific sites.

Engineer ICAN Capability Set (CAPSET) Pacific

This contract uses Cost Plus Fixed Fee (CPFF) CLINS for Labor to complete the engineering for this project and Firm Fixed Price (FFP) CLINS based on Fixed Unit Pricing (FUP) model for FIS&T.

Conduct Site Survey

Conduct Physical Site Survey for each site, the Contractor shall survey all OSP, ISP and facilities at OCONUS Pacific (PAC) locations to ensure compliance with industry codes and applicable regulations. The Contractor shall survey the existing site conditions that includes all facilities infrastructure for OSP/ISP infrastructure. The survey report for each site shall annotate any information regarding: items, requirements, or responsible agencies needed to facilitate the new equipment installation, testing, and traffic migration. The Contractor shall identify the existing GFE (i.e. MH/HH, pathways, cables, racks, Uninterruptable Power Supply (UPS), Power Distribution Unit (PDUs), HVAC that may be re-used in a GFE re-utilization Plan. The Contractor shall identify the “to” and “from” termination points for each cable being installed as identified in the site survey report **IAW CDRL A001**.

Following completion of the Site Survey(s), the Contractor shall submit a Site Survey Report per site **IAW CDRL A001**.

Engineering Implementation Plans (EIPs)

For each site, the Contractor shall develop an Engineering Implementation Plan Preliminary Design Review (EIP PDR) and submit the EIP **IAW CDRL A002** and all applicable attached documentation. The EIP shall address requirements for all materials installed by the Contractor including both GFE and CFE.

Upon approval of the EIP PDR the Contractor shall incorporate document modifications and any USG guidance into the development of the more comprehensive engineering design for the EIP Critical Design Review (EIP CDR) **IAW CDRL A003**.

Upon approval of the EIP CDR, the Contractor shall finalize and submit the Final design for the EIP Final Design Review (EIP FDR) **IAW CDRL A004**. The Contractor shall ensure the Final design instructions provide sufficient detail and clear guidance for the implementation plan **IAW CDRL A004**.

If the Contractor has obtained electronic scan data, they shall identify the Government Furnished Information (GFI) required to support the Contractor’s engineering design. The Contractor shall work with the USG to define a network integration scheme for the implementation plan to achieve a configuration end-state that is ICAN-DI compliant and it could be incremental to accommodate the following dependencies:

- unavailability of OSP infrastructure to provide diverse physical paths for critical nodes,

The Contractor shall identify the GFE (i.e., MH/HH, pathways, cables, racks, UPS, PDUs, HVAC) required to support the Contractor’s engineering design. The Contractor shall document the Cable Running List and OSP cable record identifying the “to” and “from” termination points for each cable being installed for the requirement. The Contractor shall provide other documentation, (i.e. OSP design, MH/HH butterfly drawings, facility design, configuration tables and other design and engineering-related documentation) as requested by the KO, COR or P2E Representative, **CDRL A002**.