

**Automatic Identification Technology-6 (AIT-6)
Performance Work Statement**

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Army Contracting Command



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AUTOMATIC IDENTIFICATION TECHNOLOGY – 6 (AIT-6) PERFORMANCE WORK STATEMENT (PWS)

1. GENERAL SCOPE

The mission of the Product Lead for Automated Movement and Identification Solutions (PL AMIS) Program Management Office (PMO) is to provide a single point of contact for procurement and technical expertise across the suite of Automatic Identification Technology (AIT) enabling technologies that support focused logistics, Total Asset Visibility (TAV), and the integration of global supply chains. The AIT contract will provide commercial hardware, software, documentation, and services to authorized users worldwide. Services include training, warranty, and technical engineering services (TES). Hardware and software delivery and installation, as well as performance of associated training, warranty, and documentation, shall be required at continental United States (CONUS) and outside the Continental United States (OCONUS) Government sites. Performance of TES shall be required at CONUS and OCONUS Government sites and the contractor facility.

1.1. AUTOMATIC IDENTIFICATION TECHNOLOGY ACQUISITION OBJECTIVES

The objectives of the Automatic Identification Technology VI (AIT-6) acquisition are to provide a state-of-the-art, common, integrated structure for logistics tracking, locating, and monitoring of assets and processes. Data collection, storage of information, information processing, and transmission of AIT data will greatly enhance systems within Department of Defense (DoD), United States Coast Guard (CG), North Atlantic Treaty Organization (NATO), Coalition Partners, other Foreign Military Sales (FMS), and other federal agencies. AIT technologies will provide standardization among Government users of AIT components purchased under this contract.

1.2. DESCRIPTION AND SPECIFICATION

This Performance Work Statement (PWS) sets forth the requirements for the AIT-6 technology acquisition. The contract shall provide for state-of-the-art, commercial items needed for automatic identification, data collection, keyless data entry, data processing, data storage, data retrieval, data transmission, and the tracking of assets, including the use of Radio Frequency (RF) technology for users throughout DoD, CG, NATO, Coalition Partners, other FMS, other federal agencies, and contractor purchasers in support of DoD. The Government requires software for development (e.g., libraries, device drivers, application programming interfaces, and software development tool kits), equipment operating systems, RF transaction management (i.e., RF engines), barcode label and form generation, application generation software, application software development kits, and communications. Associated TES, turnkey integration services, systems integration, software development, surveys and installations, instruction and training, warranty, documentation, and program management are required.

The technologies required by the Government encompass barcode symbologies,

contact or touch memory, direct thermal and thermal transfer printing, RF data communications, and newer technologies as they are further developed. These newer technologies may include, but are not limited to, biometrics, systems using satellite communications to relay data and provide position information, cellular communications, voice recognition, smart labels (combined barcode label and RF transponder), Item Unique Identification (IUID) marking equipment, and Radio Frequency Identification (RFID) technologies. The Government requires equipment with these technologies to support both current and future requirements. The requirements are for both civilian and military operations worldwide. The Government requires equipment compliant with open systems standards, as described in the Defense Information Standards Registry (DISR).

The categories of required equipment include, but are not limited to:

- a. Data collection devices (portable, pen-based, and mobile);
- b. Barcode laser scanners and imaging scanners;
- c. Printers (direct thermal and thermal transfer barcode label printers);
- d. Wireless communications equipment.

Turnkey solutions integrating technology purchased under the AIT-6 contract with existing Government-provided Passive RFID and Active RFID shall be provided under TES Task Orders to provide a transparent solution to the user. To support the warfighter in field operations, the AIT-6 contract shall also provide transit cases to safely transport AIT-6 equipment and related accessories required to install and operate AIT-6 equipment. The AIT-6 equipment is required to meet worldwide DoD, CG, NATO, Coalition Partners, and other Federal Agencies needs in various CONUS and OCONUS locations. Since DoD components have shared AIT technology with Allied partners in joint operations, the AIT-6 contract will be available for orders to meet FMS requirements in order to provide standardization for logistics support with Allies.

1.3. AIT-6 APPLICATIONS

Some anticipated AIT-6 applications include, but are not limited to:

- a. Inventory and warehousing environments;
- b. Large open-area storage facilities (austere marshaling areas and staging-and-assembly areas) with or without electrical power or an established communications infrastructure;
- c. Maintenance, repair, and tracking facilities;
- d. Entry and exit points of military facilities, and roadside installations;
- e. Restricted office and laboratory environments;
- f. Transactions at custody exchange points (for example: weapons issue facilities);
- g. Military transportation community (for example: seaports and air terminals) and petroleum distribution points (including fueling operations at airports, in-flight, and at sea);

- h. Handling of hazardous, explosive, or other regulated materials; and
- i. Military convoys.

1.4. WORLD WIDE GEOGRAPHIC SUPPORT

The Government requires equipment that can be used worldwide. The contractor shall provide AIT-6 hardware, software, documentation, and incidental services (including TES), training, and warranty to support the DoD operations in U.S. Northern Command (USNORTHCOM), U.S. Pacific Command (USPACOM), U.S. Central Command (USCENTCOM), U.S. European Command (USEUCOM), U.S. Southern Command (USSOUTHCOM), and U.S. Africa Command (AFRICOM).

1.5. RESTRICTION OF HAZARDOUS SUBSTANCES (ROHS)

All hardware provided under the contract shall comply with the Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32002L0095:EN:HTML>.

1.6. OFFICIAL HOURS OF OPERATION

The contractor shall provide TES support during local official hours of operation, based on the geographic location of the Government site at which the support will be provided. Help desk requirements are specified in PWS paragraph 8.1.1 entitled "Toll-Free Customer Support Help Desk."

1.7. ATTACHMENTS

The PWS attachments are listed below and included at the end of this document:

- PWS Attachment 1, Monthly Contract Status Report
- PWS Attachment 2, Monthly Equipment and Service Report
- PWS Attachment 3, Monthly Asset Management Report

2. APPLICABLE DOCUMENTS, DEFINITIONS, AND ACRONYMS

2.1. FEDERAL INFORMATION PROCESSING STANDARDS (FIPS)

Copies of the Federal Information Processing Standards may be obtained from:
U.S. Department of Commerce
National Technical Information Service
5301 Shawnee Rd.
Alexandria, VA 22312
Telephone: 1-800-553-6847
Website: <http://www.ntis.gov>

2.2. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) STANDARDS

Copies of ANSI Standards may be obtained from:

American National Standards Institute
25 W 43rd Street, 4th Floor
New York, NY 10036
Customer Service or Document Sales 8:30am – 6:00pm EST
Telephone: 1.212.642.4980
Website: <http://www.ansi.org>

2.3. INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

Copies of ISO standards may be obtained from:

<http://www.iso.org>

2.4. FEDERAL COMMUNICATION COMMISSION (FCC) REGULATIONS

Federal Communications Commission Regulations may be obtained from the Government Printing Office website:

<http://www.gpo.gov/>

2.5. UNIQUE IDENTIFICATION (UID) AND ITEM UNIQUE IDENTIFICATION (IUID) POLICY

Updates to policy and associated guides for UID and IUID of tangible items may be obtained from:

<http://www.acq.osd.mil/dpap/pdi/uid/index.html>

2.6. MHI STANDARDS

MHI standards may be obtained from:

<http://www.mhi.org/standards>

2.7. DEFINITIONS

The following are definitions of terms used in this PWS. All other definitions and meanings used shall be those which are commonly used in the AIT industry:

Assured Radio Deactivation – For any device not meeting FIPS 140-2 for Bluetooth transmission: a process or design that prevents the end user from enabling any/all integrated radio(s) and prevents any possibility of unintentionally enabling the radio(s) transmission as a result of a warm or cold boot. Methods of Assured Radio Deactivation could include: not integrating radio(s) into the hand-held terminal (HHT) platform or

printers; disabling the radio(s) at the vendor or original equipment manufacturer (OEM) facilities; or allowing radio deactivation by a systems administrator via a protected password.

Automatic Identification Technology (AIT) – Any device designed to gather, process, and store source-entry data and transmit and receive data.

Configuration Item – An aggregation of hardware or software that satisfies an end-use function and is designated by the Government for separate configuration management.

Continental United States (CONUS) – All locations and sites within the 48 contiguous States.

Equipment – Individual or any combination of hardware, software, device drivers, utilities, libraries, and firmware.

Federal Information Processing Standards Publication (FIPS) Security Requirements for Cryptographic Modules – Throughout the AIT-6 PWS, noted encryption references to FIPS 140-# shall be to the latest approved revision level as/if applicable, i.e. FIPS 140-2 or 3 .

Functional Configuration Audit – The formal examination of the functional characteristics of a configuration item to verify that the item has achieved the requirements specified in its functional and allocated configuration documentation.

Hand-held, Non-contact Barcode Scanners –Barcode scanners that are lightweight and ergonomically designed, provide barcode scanning from varying distances, and do not require the user to physically touch the barcode with the scanner.

Host Computer – A computer running the latest DoD-approved version of the Operating System (updated with the latest Service Pack) or other common operating system executing application programs on behalf of users and employing standard network communication services in support of this function.

IEEE 802.11– Throughout the AIT-6 PWS, reference to the Wireless Institute of Electrical and Electronics Engineers (IEEE) STD 802.11 is synonymous with the current revision, IEEE Std 802.11-2012 and all previously published amendments – specifically: IEEE Std 802.11a™-1999, IEEE Std 802.11b™-1999, IEEE Std 802.11b-1999/Corrigendum 1-2001, IEEE Std 802.11d™-2001, IEEE Std 802.11g™-2003, IEEE Std 802.11h™-2003, IEEE Std 802.11i™ (WPA-2).

Industrially Hardened Components – Components that can operate in a warehouse or manufacturing setting and survive the rough treatment and handling often found in shipping areas, loading docks, catwalks, ladders, or on the floor of a manufacturing facility.

Non-Government Standard – A standardization document developed by a private sector association, organization, or technical society, which plans, develops, establishes, or coordinates standards.

Nonincendive Equipment – Equipment having electrical/electronic circuitry that is incapable, under normal operating conditions, of causing ignition of a specified

flammable gas-air, vapor-air, or dust-air mixture due to arcing or thermal means. (See PWS paragraph 3.4.1, "Hazardous Environment").

Outside Continental United States (OCONUS) – All locations outside the 48 contiguous States.

Outside Official Hours of Operation – All hours not included in official hours of operation, i.e., from 5:00 p.m. to 8:00 a.m. local time Monday through Friday; all day during Saturday and Sunday; and U.S. Federal and Host Nation holidays, based on the geographic location of the U.S. Government site.

Return Material Authorization (RMA) – A number assigned by the contractor and furnished to the AIT-6 user to assist in quickly ascertaining the status of components returned for warranty service.

Set – Used when defining the battery requirement as a single battery or multiple batteries, depending on what is required for the battery-operated device to meet the specifications of the PWS.

Software Development Kit (SDK) - A set of software development tools that allows the creation of applications for a certain software package, software framework, hardware platform, computer system, operating system, or similar development platform.

Universal Serial Bus (USB) - is an industry standard that establishes specifications for cables and connectors and protocols for connection, communication and power supply between computers, peripheral devices and other computers. The USB standard is currently maintained by the USB Implementers Forum (USB IF). There have been three generations of USB specifications: USB 1.x, USB 2.0 and USB 3.x;

Workday – Monday through Friday, excluding U.S. Federal holidays.

2.8. ACRONYMS

The following acronyms are used in this PWS:

AC	Alternating Current
AIT	Automatic Identification Technology
ANSI	American National Standards Institute
API	Application Programming Interface
ASCII	American Standard Code for Information Interchange
CAC	Common Access Card
CAGE	Contractor and Government Entity
CCP	Contract Change Proposal
CG	Coast Guard
CLIN	Contract Line Item Number
CONUS	Continental United States
COR	Contracting Officer's Representative
DC	Direct Current
DISR	Defense Information Standards Registry
DoD	Department of Defense
EC	Engineering Change
EMC	Electromagnetic Compatibility
FCA	Functional Configuration Audit
FCC	Federal Communications Commission
FMS	Foreign Military Sales
HERO	Hazards of Electromagnetic Radiation to Ordnance
HHT	Hand Held Terminal
IETM	Interactive Electronic Technical Manuals
IP	International Protection rating
ISO	International Organization for Standardization
IUID	Item Unique Identification
IEC	International Electrotechnical Commission

IPT	Integrated Product Team
LAN	Local Area Network
MESR	Monthly Equipment Service Report
NEMA	National Electrical Manufacturer's Association
NI	Nonincendive
NIST	National Institute of Standards and Technology
NSN	National Stock Number
OCONUS	Outside Continental United States OEM Original Equipment Manufacturer
OS	Operating System
PC	Personal Computer
PCA	Physical Configuration Audit
PMO	Product Management Office
PPR	Project Progress Review
RAM	Random Access Memory
RF	Radio Frequency
RFDC	Radio Frequency Data Communications
RFID	Radio Frequency Identification
RMA	Return Material Authorization
SDK	Software Development Kit
SOW	Statement of Work
TCO	Total Cost of Ownership
UC APL	Unified Capabilities Approved Product List
UID	Unique Identification
UII	Unit Item Identifiers
UPC	Universal Product Code
USB	Universal Serial Bus

3. AIT-6 SYSTEM REQUIREMENTS

3.1. GENERAL

The Government requires equipment that supports the requirements of the Defense Information Standards Registry (DISR). The Government requires contractor support during official hours of operations. AIT-6 commercial equipment and its components shall operate in worldwide locations and in the identified environments. The equipment shall support required industry standard symbologies. The equipment shall support U.S. and host nation electrical power and RF requirements. The platforms of AIT are required to support the requirements of the Government. Transit case configurations are required to support missions that require rapid deployment worldwide of groups of AIT-6 equipment. The Government requires commercial software packages and software for application development. Warranty services are required to ensure the reliability and availability of AIT-6 equipment. TES are required to help the Government incorporate AIT-6 equipment into its applications. Instruction, training and documentation are required to inform and educate the Government users.

3.2. DEFENSE INFORMATION STANDARDS REGISTRY COMPLIANCE

The DISR is the minimal set of rules governing the arrangement, interaction, and interdependence of the parts or elements that together form an information system. Its purpose is to ensure that DoD systems are interoperable, scalable, and portable. AIT-6 equipment specified in this contract is not considered by DoD to be a system. Rather, AIT-6 equipment is used to provide data entry front-ends for DoD systems. This specification includes small computer platforms and components that may be proprietary or that have neither the capacity nor the scope to satisfy DISR requirements. DISR requirements for modeling and designing a system are also not required by this contract. Systems developers incorporating AIT-6 equipment purchased from this contract will address AIT product modeling and design requirements in their system models and designs. The DISR requirement for purposes of this contract is for AIT-6 equipment to interface with supported systems. Interface requirements for AIT-6 equipment are part of the specifications for these components. For each component provided by the contractor, the contractor shall identify each external interface of the component for which a standard interface specified in the DISR applies and shall certify that each interface is compliant with a DISR standard.

3.3. OPERATING ENVIRONMENTS

AIT-6 components shall operate in diverse environments and under a full spectrum of climatic conditions. AIT-6 components may be subjected to rough handling, shock, and vibration during transportation, setup, and dismantling. All AIT-6 components shall be operated in industrial, hazardous, and ordnance environments; on board surface and subsurface naval vessels, aircraft, tanks, in conditions that range from protected and

controlled (office settings) to extremely harsh and severe environments; and in areas with high levels of electromagnetic noise and interference. AIT-6 components are required for outdoor use and may be subjected to desert and Arctic areas. The contractor shall certify that the provided components meet applicable Environmental Protection Act (EPA) requirements. Except for laser marking equipment and integrated marking cart configuration, the Government requires AIT-6 equipment that can be used in the following environments: electromagnetic, hazardous, ordnance, RF, and rugged environments. The laser marking equipment and integrated marking cart configuration are intended for use in an indoor industrial environment.

3.4. ELECTROMAGNETIC ENVIRONMENT

AIT equipment may be used in the vicinity of spectrum-dependent devices that receive low-level signals and/or transmit high-level signals (MIL-STD-464, latest revision: Electromagnetic Environmental Effects Requirements for Systems).

In order to certify the use of commercial AIT equipment in these environments, the Government may subject representative categories of equipment to radiated emission and susceptibility tests (MIL-STD 461, latest revision: Requirements for the Control of Electromagnetic Interference Emissions and Susceptibility).

The contractor shall support Government-testing efforts by providing technical data sheets and responding to the Contracting Officer's Representative (COR) requests for additional data.

3.4.1. HAZARDOUS ENVIRONMENT

Where specified in the PWS, the contractor shall provide equipment that is identified and certified as nonincendive (NI) for operation in environments where flammable and explosive gases and vapors may be present. At a minimum, the following NI requirements shall be met:

- Class 1 (Gases and Vapors)

- Division 2 (Not present in normal operation) Groups

- A (Acetylen)

- B (Hydrogen)

- C (Ethyl Ether, Ethylene)

- D (Acetone, Ammonia, Benzene, Butane, Cyclopropane, Ethanol, Gasoline, Hexane, Methanol, Methane, Natural Gas, Naphtha, Propane)

- Class 2 (Combustible Dust)

- Division 2 (Not present in normal operation) Groups

- F (Combustible carbonaceous dusts)

- G (All other combustible dusts, such as grain dust)

- Class 3 (Easily Ignitable Fibers)

- Division 2 (Not present in normal operation)

NI is a rating classification of equipment specifically defined in the National Electrical Code (NEC). To be given an NI rating, the contractor shall have demonstrated that equipment cannot, under normal operation, produce a spark or other undesirable effects that might cause combustion in any potentially hazardous environment. The presence of gases, vapors, flammable liquids, combustible dust, or ignitable fiber or flyings are examples of potentially hazardous environments. Equipment shall be certified by an approved testing laboratory as meeting Occupational Safety and Health Administration (OSHA) standards. Circuits shall not produce a spark under normal operation. AIT-6 equipment may be used under conventional, chemical, or biological warfare conditions. The contractor shall label components that are approved for use in a hazardous environment in accordance with governing body markings.

3.4.2. ORDNANCE ENVIRONMENT

AIT-6 equipment may be used in the vicinity of ordnance susceptible to radiated energy. In order to certify that AIT-6 equipment is safe to use in these environments, the Government will select and subject a single item from each AIT-6 contractor's pertinent equipment categories to stringent Hazards of Electromagnetic Radiation to Ordnance (HERO) environment testing (see MIL-STD 464, latest revision: Electromagnetic Environmental Effects Requirements for Systems).

3.4.3. TESTING

If required by the Government user, each AIT-6 item tested shall successfully complete HERO testing prior to being made available for ordering on the AIT-6 contract, including equipment added after contract award. Each AIT-6 contractor shall be responsible for providing any and all support required to successfully complete HERO testing for their equipment at the direction of the Government COR at no additional cost to the Government. Contractors may be required to provide on-site support at the Government test facility (United States Navy Dahlgren Laboratory) to support testing. The Government will bear the cost of the initial testing for each AIT-6 hardware item. All subsequent testing costs to meet the HERO requirements shall be the responsibility of the contractor.

3.4.4. SPECTRUM SUPPORTABILITY COMPLIANCE

PMO will obtain spectrum supportability guidance and approvals upon award of the contract for equipment that is designed to either transmit or receive electromagnetic (RF) energy. Spectrum supportability includes spectrum certification, frequency assignments, and host nation coordination where employment of the system or equipment is planned. RF dependent components of the proposed system shall comply with applicable DoD, national, and international spectrum management policies and regulations, to include spectrum certification in accordance with DoDI 4650.01, "Policy

and Procedures for Management and Use of the Electromagnetic Spectrum,” and DoD Directive (DoDD) 5000.01, "The Defense Acquisition System." Frequency allocation shall be documented with a DD Form 1494, Application for Equipment Frequency Allocation, and/or a "Note to Holder," as appropriate. The contractor shall provide the technical data required to complete the spectrum supportability process, including information concerning specifications and testing of the transmitter, receiver, and antenna characteristics necessary for host nation coordination. The PMO will apply for spectrum supportability by submitting a DD Form 1494. The Contractor shall provide the technical support necessary to complete the DD Form 1494 no later than 30 days after the effective date of contract award or approval of a Contract Change Proposal (CCP) to add or replace applicable items on the contract. All contractor-provided spectrum supportability compliance shall be provided at no additional cost to the Government.

3.4.5. RUGGED ENVIRONMENT

AIT-6 hardware will be used by the Government in “rugged environments” (i.e. industrial and field settings under temperate, arctic, maritime, desert, and tropical conditions). The words “rugged” or “ruggedized,” when used in this PWS, mean that the Government requires AIT-6 hardware that is industrially hardened, designed, built, and tested to ensure reliable and continuous performance in all harsh environments. In this environment, AIT-6 components may be subjected to rough handling, continuous operational use, vibration, dropping onto hard surfaces, and shock caused by transportation over rough terrain. Mobile devices may experience a drop to concrete from a height of 4’ while in normal use. Contractor-provided AIT-6 HHTs shall be ruggedized (industrially hardened), weatherproof (rain, wind, etc.), and comply with the IEC Standard 60529 and International Protection Marking 54 rating requirements, unless otherwise stated.

3.5. ORIGINAL EQUIPMENT MANUFACTURER ENGINEERING CHANGES

All OEM-sponsored Engineering Changes (ECs) adopted prior to the effective date of contract award shall be incorporated into the hardware and software delivered under this contract.

3.6. ONLY NEW EQUIPMENT

Only new equipment shall be delivered under this contract. The contracting officer will not grant approval for used equipment.

3.7. RECONDITIONED COMPONENTS

No equipment provided by the contractor under this contract may be used or reconditioned; however, components of such equipment may be reconditioned, provided such components are drawn from stockage that does not differentiate between new and reconditioned components.

3.8. CONNECTIVITY TO GOVERNMENT-OWNED COMPUTERS

The Government currently uses a wide variety of computers that may be connected to the contractor-provided AIT- 6 components. Connections shall be in accordance with standard protocols (e.g., RS-232, RS-485, Universal Serial Bus (USB), and Transmission Control Protocol/Internet Protocol (TCP/IP)).

3.9. AC/DC POWER REQUIREMENTS

3.9.1. POWER REQUIREMENTS

The contractor shall provide equipment designed and certified to meet the quality and safety standards of Underwriters Laboratory (UL) or equivalent standards. The contractor shall provide equipment with power supplies, fuses, and cables for components that shall allow the use of locally available commercial power. All AIT-6 components shall be compatible with the power supply, power outlets, and connectors for the geographic area in which it is to be operated, as specified in the delivery order, task order or Government purchase card (GPC) order. The contractor shall also provide all necessary and appropriate alternating current (AC) plug adapters (when required for AC operation) for AIT-6 components delivered.

3.9.2. POWER SUPPLIES

AIT-6 devices and printers shall, to the extent available, automatically enter a low-power mode after a period of inactivity and automatically return to active mode upon resumption of system activity or receipt of external input. AIT-6 devices and printers shall be shipped with the power management feature enabled. The power supplies and AC adapters (when required for AC operation) shall be of a type to prevent damage to the device when transient high voltage is present. The contractor shall provide a single unit to convert the plug type to one that is required by the country where the equipment will be operated. The power supplies and AC adapters shall be appropriately marked to indicate the product's safety and quality.

3.9.3. BATTERY-OPERATED AIT-6 EQUIPMENT

The contractor shall provide rechargeable batteries with each battery-operated AIT-6 device acquired under this contract, unless otherwise stated.

3.9.3.1. Rechargeable Batteries

The contractor shall provide rechargeable batteries that supply eight hours of operation under typical use, unless otherwise stated, and that require no more than five hours to fully recharge. Typical use is benchmarked as the device powered on with two complete

actions per minute. HHTs are to scan, decode, display data, and transmit data (via RF) throughout the typical eight hour operational cycle. Rechargeable batteries shall be chargeable without removal from AIT-6 equipment. Batteries or battery packs shall be user-replaceable in the field in less than two minutes, without special tools needed. Positive and negative terminals of rechargeable batteries shall be clearly marked, unless the shape of the rechargeable battery prevents improper or reversed installation. All battery charging devices shall be equally capable of charging batteries (e.g., waking up a battery, if required, to affect a charge). See more specific requirement for printers in subparagraphs under PWS paragraph 4.3, "Barcode Label Printers."

3.9.3.2. Internal Back-up

The contractor shall provide:

- a. A method to maintain the data content of Random Access Memory (RAM) for all HHTs during changing of the battery and for a minimum of five minutes when the battery is removed.
- b. AIT-6 devices shall not require special storage procedures to prevent internal backup batteries from failing.

3.9.3.3. Low-Power Operation

Battery-operated AIT-6 equipment shall provide the operator with a visible signal when battery power is low. The low-battery power signal shall provide the operator with at least five minutes of advance warning of an automatic shutdown. To preserve stored data and conserve power, battery-operated AIT-6 equipment shall automatically shut down before battery power is completely depleted.

3.10. ACCESSIBILITY

The contractor shall provide a comprehensive list of all electronic and information technology (EIT) products (supplies and services) provided under the contract and ensure that all EIT products fully comply with the standards for Section 508 of the Rehabilitation Act and the guidelines for Section 255 of the Communications Act, which are set forth at 36 CFR Part 1194 (Information and Communication Technology Standards and Guidelines). The contractor shall clearly indicate where this list with full details of compliance can be found (e.g., contractor, subcontractor, vendors, or exact web page location). The contractor shall ensure that the list is easily accessible by typical users, beginning five calendar days after receipt of the notice to proceed. The contractor shall maintain this detailed listing of compliant products for the full contract term, including all extensions, and shall ensure that the detailed listing is updated within three calendar days of changes to the contractor's, subcontractor's, or vendor's product line.

3.11. BARCODE SYMBOLOGIES

Where barcode capability is required, equipment and software shall decode and printers and marking equipment shall produce barcodes in symbologies that comply with industry standards and specifications for Code 39, Code 128, CODABAR, Interleaved 2 of 5, GS1 Barcodes, Universal Product Code (UPC), Data Matrix ECC 200, and Portable Data File (PDF) 417. Where barcode capability is required, contractor-provided equipment shall provide for the production and reading of bar code labels and markings and decode labels in accordance with the specifications defined in MHI MH10.8.2 Data Identifier and Application Identifier Standard, MHI MH10.8.3M Material Handling - Unit Loads and Transport Packages – Two Dimensional Symbols, and ANSI INCITS 182-1990 Barcode Print Quality Guidelines. When additional standards are developed during the life of the contract, the Government may require other symbologies. Equipment shall be capable of printing or decoding these symbologies with a nominal 'x' dimension of 10 mils for linear and PDF. Equipment shall be capable of decoding data matrix at 7.5 mil cell module width and printing at 10 mil cell module widths.

3.12. WARRANTY REQUIREMENTS

The contractor shall provide a minimum three-year warranty (including the initial and separately orderable HHT batteries, but excluding cables and ancillary items, such as power supplies, docking stations, battery charger, etc.) and an optional two-year warranty (excluding batteries and ancillary items) where specified in this PWS, including all parts, labor, and transportation costs for all AIT-6 components provided under this contract. All products delivered under this contract shall have a permanent label affixed to each serialized item (excluding batteries and cables) that, at a minimum, identifies: the contractor company name, telephone number and website URL. The contractor shall provide a minimum of a three-year warranty for all software products. The three-year warranty shall be included in the purchase price of the component, and not priced separately.

3.13. EQUIPMENT DELIVERY REQUIREMENTS

The contractor shall provide all necessary equipment, software, firmware, cables, connectors, drivers, essential accessories, and ancillary items required to make each deliverable item operational. Software shall be provided with the item and be available for download from the contractor's site.

For delivery orders against this contract that contain only supplies, representatives of the Defense Contract Management Agency (DCMA) shall perform inspection and acceptance of the supplies at origin. The DCMA Contract Administration Services (CAS) directory can be found at <http://www.dcma.mil>. The CAS directory also identifies the Defense Finance and Accounting Services (DFAS) payment office that is associated with the DCMA.

The contractor shall deliver hardware and software items to the destination specified in the order within 60 days after date of order for all orders. DCMA inspection must also be performed within the 60 days after date of order for all orders.

The contracting officer issuing the order may arrange for a longer delivery period. Additionally, the contracting officer may order expedited delivery of items, in which case, the contractor shall deliver the items IAW PWS paragraph 3.14, "Expedited Delivery Requirements." Partial delivery requires prior approval from the ordering office, unless specified otherwise on the delivery order. The period of performance (PoP) shall be stated on each task order. Orders shall be mailed or notice of award furnished to the contractor no later than date of order. All delivery and performance schedules include the three calendar day contractor review time for acceptance or rejection of orders.

3.14. EXPEDITED DELIVERY REQUIREMENTS

Contractor shall provide expedited delivery for CONUS and OCONUS locations when required and specified in equipment orders (delivery orders and GPC orders). The price and delivery time for expedited delivery shall be negotiated on a firm-fixed price basis, subject to product availability and timeliness. The contractor's objective delivery of products to destination is within seven calendar days after date of award for CONUS orders, or within fourteen calendar days after date of award for OCONUS order, unless other terms are negotiated and specified in the order. Expedited deliveries not requested by the Government will be acceptable if at no additional cost to the Government and the Government is notified of the early delivery. Prior approval is required for partial deliveries.

3.15. UNIQUE IDENTIFICATION

3.15.1. REQUIREMENTS

Items identified in the DFARS clause 252.211-7003 or exhibits/attachments thereto requiring IUID shall be marked in accordance with contractual requirements, including DFARS 252.211-7003, MIL-STD-130 (latest version), and the DoD Guide to Uniquely Identifying Items (latest version). These publications are available for download at: <http://www.usarmyamis.army.mil/Customersupport/iuid.html>. The data from which the Unique Item Identifier (UII) is derived shall, at a minimum, be encoded in an Error Correction Code (ECC) 200 data matrix mark on the item. For items bearing data plates, the mark shall, when feasible, be incorporated onto the data plate. The required ECC 200 data matrix marks containing the unique identification data shall be verified and validated as prescribed by MIL-STD-130 (latest version). The reports of those validation and verification results shall be maintained, subject to Government examination, for one year. Marking method, location, size, content, and durability shall be compliant with MIL-STD-130 (latest version). The UII shall be constructed as described in the DoD Guide to Uniquely Identifying Items (latest version). The option of whether to use Construct #1, Construct #2, or a DoD-recognized IUID equivalent as the

UII is reserved to the organization that assigns and guarantees the uniqueness of the UII. The enterprise identifier used to construct a UII shall be the enterprise identifier of the organization guaranteeing the uniqueness of the UII. If an original part number is used as a component of the UII, it shall be the identifier assigned by the enterprise at item creation to a class of items with the same form, fit, function, and interface.

3.15.2. PACKAGING

Packaging of uniquely identified items shall be marked IAW MIL-STD-129 (latest version). A sample of packaging marks, including those on the packaging of each Contract Line Item Number (CLIN) requiring IUID, shall be validated and checked for readability. In the absence of software to validate MIL-STD-129 compliance of IUID item packaging marks, the contractor shall manually validate marks on the packaging of items bearing IUID to ensure proper content and use of proper syntax, as prescribed in MIL-STD-129 (latest version). The manual validation process is discussed in the Information sheet that can be downloaded at: <https://usarmyamis.army.mil/Customersupport/CorrectEncodingPerMIL-STD-129R.pdf>.

3.15.3. IUID REGISTRY

The contractor shall employ the procedures specified in DFARS 252.211-7003 to submit required IUID registration data to the DoD IUID Registry. Normally, contractors using Invoicing, Receipt, Acceptance and Property Transfer (iRAPT) shall use its receiving report to register the IUID-identified end items and the IUID-identified components of those end items. In limited cases, the alternate methods described in DFARS 252.211-7003 may be employed.

3.16. IPV6 ENABLED ASSETS

The contractor shall warrant that each item delivered under the AIT-6 contract shall accurately transmit, receive, process, and function correctly using the Internet Protocol Version 6 (IPv6), excluding the barcode label printers. Specifically, the contractor warrants that: 1) each item delivered complies with the current DISR developed IPv6 standards profile; 2) each item delivered maintains interoperability with Internet Protocol Version 4 (IPv4) (specifically, each item delivered shall operate on/coexist on a network supporting IPv4 only, IPv6 only, or a hybrid of IPv4 and IPv6); and 3) each item delivered is supported by the contractor's IPv6 technical support. Additionally, as IPv6 evolves, the contractor shall upgrade or provide an appropriate migration path for each item delivered. The duration of this warranty and the remedies available to the Government for breach of this warranty shall be as defined in and subject to the terms

and limitations of the contractor's standard commercial warranty or any other warranties proposed by the contractor. Notwithstanding any provision(s) to the contrary in such commercial warranty or warranties, the remedies available to the Government under this warranty shall include repair or replacement of any product whose non-compliance is discovered and made known to the contractor no later than one year after acceptance. Nothing in this warranty shall be construed to limit any rights or remedies the Government shall otherwise have under an AIT-6 contract with respect to defects other than IPv6 performance.

4. EQUIPMENT REQUIREMENTS

The contractor shall provide programmable HHTs, imagers, IUID marking devices, printers, wired and wireless communications capabilities, interfaces, and various storage media with the associated readers and writers.

4.1. HAND-HELD TERMINAL

HHTs are microprocessor-based, hand-held devices used to automatically capture and store data. The HHTs shall accept data through touch screen, pen base (stylus), keypad, integral barcode imager, or attached devices, and shall communicate via communications docking stations or 802.11 networks for data transfer and for downloading HHT program instructions. The contractor shall provide a FIPS 140 client solution for all the Hand-Held Terminals that have activated wireless communications to allow for secured communication. Client software that is FIPS 140-2 Level 2 compliant and certified shall be proposed via a contract change proposal (CCP) when it becomes commercially available. The devices shall be provided with an operating system, as described in the paragraph entitled "Hand Held Terminal Operating Systems." HHTs shall be delivered with an integrated Common Access Card (CAC) reader or the HHT shall accommodate a provision for integration with a tethered Bluetooth CAC reader. The contractor shall affix a permanent label to the Bluetooth CAC reader that states the UL Nonincendive Certified Hazardous Location Designation (as applicable) and ambient temperature range, and includes the following marking on the label: "WARNING – EXPLOSION HAZARD – DO NOT CONNECT WHILE CIRCUIT IS LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS." In addition, the contractor shall ensure the OEM's name (or trademark / identifier), electrical ratings, and catalog number (or equivalent) markings appear on the device.

All HHTs shall be capable of supporting CAC enablement software. HHTs shall also be capable of supporting DoD Public Key Infrastructure (PKI) interfaces (reference: <https://public.cyber.mil/pki-pke/about/#>). The contractor shall provide software development kits (SDK) that can be used with standard application development tools to produce executable code for all of the provided HHTs. The contractor shall have available an SDK for their devices, which can be downloaded at no additional cost for Government users. The unit shall also charge the batteries in the HHT without removing the batteries from the HHT. These HHTs are intended for use in office, warehouse, and outdoor military environments worldwide.

4.1.1. TECHNICAL REQUIREMENTS

The contractor shall provide HHTs with all of the following attributes and components, unless otherwise noted:

- a. An integral barcode imager with capability to read the linear and 2-D barcodes specified in PWS paragraph 3.11, "Barcode Symbologies;"
- b. An integral barcode imager that provides a depth of field of at least 4" for low- and medium-density barcodes and 2" for high-density barcodes;
- c. Ruggedized construction with minimum IP54 rating;
- d. Minimum operating temperature range of 14° to +122° Fahrenheit;
- e. Certified nonincendive as specified;
- f. Screen or display that can receive input via stylus and touch;
- g. Capability to retain operator/user data for a minimum of five minutes without main battery power;
- h. Operating systems (OS), as described in PWS paragraph 4.1.2, "Hand Held Terminal Operating Systems";
- i. One set of operational batteries;
- j. Tethered stylus;
- k. Built-in wireless RF data communications conforming to Bluetooth and IEEE 802.11, with capability to deactivate all radios;
- l. A provision to charge the HHT battery; and
- m. Capability to withstand multiple 4-foot drops to concrete

4.1.2. HAND-HELD TERMINAL OPERATING SYSTEMS

The contractor shall provide HHTs with the latest approved mobile operating system or a minimum configuration using Army Gold Master (AGM) Windows 10 Professional for Tablet form factor based devices, unless otherwise stated, configured to provide the following:

- a. Graphical user interface with pen/character recognition;
- b. Support for both IPv4 and IPv6;
- c. Full system support of color touch screen;
- d. FIPS-140 security client;
- e. Software to perform data synchronization via communication dock and wireless to a host computer, if required;
- f. Capability to execute non-proprietary development environments/compilers i.e. Java, Basic, C/C++, HTML 5, etc.;

- g. Wireless data communications (IEEE 802.11);
- h. An Internet Browser that shall pass XML data and PKI certificates;
- i. A utility program to monitor and display battery status; and
- j. Ability to host antivirus and firewall software.
- k. For Army orders, unless otherwise specified, the HHT shall be integrated with a default Windows 10 AGM (latest approved version, if applicable) Operating System and Application image load, as stated in the guidelines under Network Enterprise Technology Command (NETCOM) Technical Authority Implementation Memorandum For Army End-User Computing Environment, Version 2 (NETC-G-0412-002-E- STD) or most current version. NETCOM will manage and maintain configuration management control over the standard AGM configuration. The AGM support desk maintains a list of approved hardware vendors. If the contractor is not listed on the approved Army vendors list, the contractor shall coordinate with the AIT-6 customer (Army customers only) the availability of the appropriate AGM-based image so that it can be integrated onto the HHT platform, or the Contractor shall obtain a customer waiver (exemption) for the AGM install. The Contractor shall maintain and update images for their platforms using the AGM standard configuration and provide NETCOM with a copy of each platform specific image delivered to the Army. Note: The AGM program is responsible for the release of the Army Standard Baseline Configurations for commonly used computing environment within the Army Enterprise Infrastructure. The AGM baseline may change throughout the life of the contract, as directed by the Government.

4.1.3. SEPARATELY ORDERABLE ITEMS FOR HAND HELD TERMINALS

The contractor shall provide the following separately orderable components and features/configurations for the HHTs:

- a. Warranty upgrade for a total of five years (includes two-year optional warranty, excludes batteries);
- b. Holster with adjustable, detachable shoulder strap;
- c. Rechargeable battery;
- d. Multiple-battery charger for a minimum of two HHT batteries;
- e. Single-battery charger / communications docking station and a 6' USB cable data communication to host computer. The HHT Battery charger / communications dock shall have, at a minimum, two each USB ports, one each HDMI port, one each VGA port, and one each RJ45 Ethernet port;
- f. Replacement styli;
- g. Transparent screen protector;
- h. Printer interface cable that interfaces the HHT to the portable wearable printer;
- i. Detachable hand strap; and
- j. Carrying case (IP54 rating, minimum).

4.1.4. HAND HELD TERMINAL–A (HHT-A)

HAND HELD TERMINAL–A, LARGE DISPLAY, INTEGRATED IMAGER, FULL ALPHANUMERIC KEYPAD CAPABILITY, AND CERTIFIED FOR HAZARDOUS LOCATIONS (MINIMUM CLASS 1, DIVISION 2, GROUPS A, B, C, AND D)

The contractor shall provide a hand-held, user-programmable HHT-A, with a full alphanumeric keypad capability, Bluetooth, and IEEE 802.11 wireless communications functions. The user shall have the capability to enable/disable all radios, both manually and by firmware. The HHT-A shall be capable of communicating with the portable/wearable barcode label printer through a cable interface.

The HHT-A shall, at a minimum, be a ruggedized (industrially hardened) and have a dual-core 64 bit processor, with a minimum 128 GB internal data storage capacity, 8 GB RAM, 2.3 GHz minimum processing speed, one stylus (no spare required), an integrated CAC reader, eight hours of operational battery life, 1D/2D imager barcode reader, a docking connector, an input power jack, and one Universal Serial Bus 3.0 (USB 3.0) compliant interface connector. The mobile device shall have a nominal screen size between 9 to 12 inches diagonal; have a full color display with a minimum resolution of 1280 x 768; and weigh no more than four pounds.

The mobile device shall accommodate the latest version DISA-approved Microsoft OS (updated with the latest Service Pack), and must implement and be in compliance with the International Standard ISO/IEC 11889:2015 or the Trusted Computing Group Trusted Platform Module (TPM) 2.0 Library, revision 1.16 (or later) specification. The contractor shall harden the OS to the DISA Risk Management Executive (RME) configuration. The current method of hardening Windows 10 is to create the system using the Win 10 Secure Host Baseline image and then applying the Security Technical Implementation Guide Group (STIG) Group Policy Object (GPO) requirements. . The point of contact (POC) at DISA is disa.letterkenny.re.mbx.stig-customer-support-mailbox@mail.mil

4.1.5. HAND-HELD TERMINAL-B (HHT-B)

HAND-HELD TERMINAL-B (HHT-B) SMALL DISPLAY, INTEGRATED IMAGER, AND FULL ALPHANUMERIC KEYPAD CAPABILITY

The contractor shall provide a hand-held, user-programmable HHT-B, with a full alphanumeric keypad capability, Bluetooth, and IEEE 802.11 wireless communications functions. The user shall have the capability to enable/disable all radios, both manually and by firmware. The HHT-B shall be capable of communicating with the portable/wearable barcode label printer through a cable interface.

The HHT-B shall, at a minimum, be a ruggedized (industrially hardened) and have a dual-core 64 bit processor, with a minimum 128 GB internal data storage capacity, 4 GB RAM, 1.2 GHz minimum processing speed, one stylus (no spare required), an integrated CAC reader, four hours of operational time with hot-swappable batteries, and a docking connector, an input power jack, and one Universal Serial Bus 3.0 (USB 3.0)

compliant interface connector. The mobile device shall have a nominal screen size between 5 to 8 inches diagonal; have a full color display with a minimum resolution of 1280 x 768; and weigh no more than four pounds.

The mobile device shall accommodate the latest version DISA-approved Microsoft OS (updated with the latest Service Pack), and must implement and be in compliance with the International Standard ISO/IEC 11889:2015 or the Trusted Computing Group Trusted Platform Module (TPM) 2.0 Library, revision 1.16 (or later) specification. The contractor shall harden the OS to the DISA Risk Management Executive (RME) configuration. The current method of hardening Windows 10 is to create the system using the Win 10 Secure Host Baseline image and then applying the Security Technical Implementation Guide Group (STIG) Group Policy Object (GPO) requirements. The point of contact (POC) at DISA is disa.letterkenny.re.mbx.stig-customer-support-mailbox@mail.mil

4.1.6. HAND-HELD TERMINAL-C (HHT-C)

HAND-HELD TERMINAL-C, LARGE DISPLAY, INTEGRATED IMAGER, AND FULL ALPHANUMERIC KEYPAD CAPABILITY

The contractor shall provide a hand-held, user-programmable HHT-C, with a full alphanumeric keypad capability, Bluetooth, and IEEE 802.11 wireless communications functions. The user shall have the capability to enable/disable all radios, both manually and by firmware. The HHT-C shall be capable of communicating with the portable/wearable barcode label printer through a cable interface.

The HHT-C shall, at a minimum, be a ruggedized (industrially hardened) and have a dual-core 64 bit processor, with a minimum 128 GB internal data storage capacity, 8 GB RAM, 2.3 GHz minimum processing speed, one stylus (no spare required), an integrated CAC reader, eight hours of operational battery life (on a single charge), 1D/2D imager barcode reader, and a docking connector, an input power jack, and one Universal Serial Bus 3.0 (USB 3.0) compliant interface connector. The mobile device shall have a nominal screen size between 9 to 12 inches diagonal; have a full color display with a minimum resolution of 1280 x 768; and weigh no more than four pounds.

The mobile device shall accommodate the latest version DISA-approved Microsoft OS (updated with the latest Service Pack), and must implement and be in compliance with the International Standard ISO/IEC 11889:2015 or the Trusted Computing Group Trusted Platform Module (TPM) 2.0 Library, revision 1.16 (or later) specification. The contractor shall harden the OS to the DISA Risk Management Executive (RME) configuration. The current method of hardening Windows 10 is to create the system using the Win 10 Secure Host Baseline image and then applying the Security Technical Implementation Guide Group (STIG) Group Policy Object (GPO) requirements. The point of contact (POC) at DISA is disa.letterkenny.re.mbx.stig-customer-support-mailbox@mail.mil

4.1.7. HAND-HELD TERMINAL-D (HHT-D)

HAND-HELD TERMINAL-D (HHT-D) SMALL DISPLAY, INTEGRATED IMAGER, FULL

ALPHANUMERIC KEYPAD CAPABILITY, AND NI CERTIFIED (PER PWS PARAGRAPH 3.4.1, "HAZARDOUS ENVIRONMENT")

The contractor shall provide a hand-held, user-programmable HHT-D that is NI certified and compliant with the requirements described in PWS paragraph 3.4.1, "Hazardous Environment." The device shall provide a full alphanumeric keypad capability, Bluetooth, and IEEE 802.11 wireless communication functions. The user shall have the capability to enable/disable all radios, both manually and by firmware. The HHT-D shall be capable of communicating with the portable/wearable barcode label printer through a cable interface.

The HHT-D shall, at a minimum, be ruggedized (industrially hardened) and have a dual-core 64 bit processor, with a minimum 128GB internal data storage capacity, 4GB RAM, 1.2 GHz minimum processing speed, one stylus (no spare required), and an integrated CAC reader or a tethered Bluetooth CAC reader (with the ability to separately charge the Bluetooth CAC card reader battery from an AC electrical source). The HHT-D shall provide eight hours of operational battery operational life (on a single charge). HHT-D shall have a docking connector, an input power jack, and one Universal Serial Bus 3.0 (USB 3.0) compliant interface connector. The HHT-D shall also have a nominal screen size between 5 to 8 inches diagonal; have a full color, scratch-resistant display with a minimum resolution of 1280 x 768 pixels; and weigh no more than four pounds.

The mobile device shall accommodate the latest version DISA-approved Microsoft OS (updated with the latest Service Pack), and must implement and be in compliance with the International Standard ISO/IEC 11889:2015 or the Trusted Computing Group Trusted Platform Module (TPM) 2.0 Library, revision 1.16 (or later) specification. The contractor shall harden the OS to the DISA Risk Management Executive (RME) configuration. The current method of hardening Windows 10 is to create the system using the Win 10 Secure Host Baseline image and then applying the Security Technical Implementation Guide Group (STIG) Group Policy Object (GPO) requirements. The point of contact (POC) at DISA is disa.letterkenny.re.mbx.stig-customer-support-mailbox@mail.mil

4.1.8. HAND-HELD TERMINAL-E (HHT-E)

HAND-HELD TERMINAL-E (HHT-E) SMALL DISPLAY, INTEGRATED IMAGER, FULL ALPHANUMERIC KEYPAD CAPABILITY, AND NI CERTIFIED (PER PWS PARAGRAPH 3.4.1, "HAZARDOUS ENVIRONMENT") WITH PISTOL GRIP HANDLE.

The contractor shall provide a hand-held, user-programmable HHT-E that is NI certified and compliant with the requirements described in PWS paragraph 3.4.1, "Hazardous Environment." The device shall provide a full alphanumeric keypad capability, Bluetooth, and IEEE 802.11 wireless communication functions. The user shall have the capability to enable/disable all radios, both manually and by firmware. The HHT-E shall be capable of communicating with the portable/wearable barcode label printer through a cable interface, and the HHT-E shall accommodate a permanent or removable pistol grip handle with an operational trigger for the integrated barcode scan engine.

The HHT-E shall, at a minimum, be ruggedized (industrially hardened) and have a dual-core 64 bit processor, with a shock mounted or solid state 128GB hard drive, 4GB RAM,

1.2 GHz minimum processing speed, one stylus (no spare required), and an integrated CAC reader or a tethered Bluetooth CAC reader (with the ability to separately charge the Bluetooth CAC card reader battery from an AC electrical source). The HHT-E shall provide 8 hours of operational battery life (on a single charge). HHT-E shall have a docking connector, an input power jack, and a one Universal Serial Bus 3.0 (USB 3.0) compliant interface connector. The HHT-E shall also have a nominal screen size between 5 to 8 inches diagonal; have a full color, scratch-resistant display with a minimum resolution of 1280 x 768 pixels; and weigh no more than four pounds.

The mobile device shall accommodate the latest version DISA-approved Microsoft OS (updated with the latest Service Pack), and must implement and be in compliance with the International Standard ISO/IEC 11889:2015 or the Trusted Computing Group Trusted Platform Module (TPM) 2.0 Library, revision 1.16 (or later) specification. The contractor shall harden the OS to the DISA Risk Management Executive (RME) configuration. The current method of hardening Windows 10 is to create the system using the Win 10 Secure Host Baseline image and then applying the Security Technical Implementation Guide Group (STIG) Group Policy Object (GPO) requirements. The point of contact (POC) at DISA is disa.letterkenny.re.mbx.stig-customer-support-mailbox@mail.mil

4.2. BARCODE SCANNING/IMAGING DEVICES

The contractor shall provide ruggedized barcode scanning and imaging devices with data conversion and character substitution capabilities. Barcode scanning/imaging devices shall scan barcodes printed with direct thermal, thermal transfer, dot matrix, ink jet, and laser technologies, as well as barcodes printed on colored substrates that meet the grade requirements of subparagraph b below. The scanners/imagers shall read and decode all of the symbologies listed in PWS paragraph 3.11, "Barcode Symbologies." The contractor shall provide barcode imagers that:

- a. Read the barcodes and densities specified and have a depth of field of at least 4 inches for low and medium density barcodes and 2 inches for high density barcodes and 2D barcodes;
- b. Read a minimum print quality of grade C barcodes in accordance with ANSI INCITS 182-1990 (R2002);
- c. Inherently perform data conversion (user configurable) to substitute printable characters for the non-printable ASCII characters utilized in IUID data syntax;
- d. Have a desktop stand to hold the barcode imager when not in use;
- e. Include cable interfaces consisting of a coiled, strain-relieved USB cable, expandable from 3 to 8 feet in length (except Bluetooth models); and
- f. Have a minimum IP rating of IP54, unless otherwise stated.

4.2.1. IMAGER FOR PC INPUT– GENERAL BARCODE (TETHERED)

The contractor shall provide a barcode imaging device that reads printed symbologies

and high contrast data plate markings and is user configurable as a keyboard wedge and as a direct serial input device with a USB connector.

4.2.2. IMAGER FOR PC INPUT – GENERAL BARCODE (BLUETOOTH)

The contractor shall provide a barcode imaging device with communications/charging dock that reads printed symbologies and high contrast (minimum 50% contrast) data plate markings and is user configurable as a keyboard wedge and as a direct serial input device via FIPS 140-2 level 1 encrypted Bluetooth communications. The imaging device shall have the capability to continue to read and store data when the device is outside of the Bluetooth communications range. The imager shall automatically forward the stored data when the imaging device reestablishes Bluetooth communications with the communications/charging dock.

4.2.3. IMAGER FOR PC INPUT – IUID LABEL MARKING

The contractor shall provide a programmable barcode imaging device that reads printed symbologies and high contrast (minimum 50% contrast) data plate markings. The imager shall include the capability to decode IUID markings and output a properly configured UII String. The imager shall be user configurable as a keyboard wedge and as a direct serial input device with a USB connector.

4.2.4. IMAGER FOR PC INPUT – IUID DIRECT PART MARKING

The contractor shall provide a programmable barcode imaging device that reads direct part markings meeting MIL-STD 130N requirements, including laser etching and dot peen marks on a variety of material substrates and surfaces in addition to printed symbologies and high contrast (minimum 50% contrast) data plate markings. The imager shall include the capability to decode IUID markings and output a properly configured UII String. The imager shall be user configurable as a keyboard wedge and as a direct serial input device with a USB connector.

4.2.5. IMAGER WITH EXTENDED READING RANGE FOR PC INPUT – GENERAL BARCODE (TETHERED)

The contractor shall provide a barcode imaging device that reads printed symbologies and high contrast (minimum 50% contrast) data plate markings and is user configurable as a keyboard wedge and as a direct serial input device with a USB connector. The device shall have a minimum IP54 rating, operational temperature range of -4 to 122 degrees Fahrenheit, and the capability to withstand multiple drop tests to concrete from 6 feet. In addition to reading all the symbologies listed in PWS paragraph 3.11, “Barcode Symbologies,” this imager shall have the capability of reading extended range linear barcodes (up to 100 mil 'x' dimension on retro- reflective or plain backing) at a range of up to 15 feet and have integrated laser pointer aiming capability.

4.3. BARCODE LABEL PRINTERS

4.3.1. GENERAL REQUIREMENTS

The contractor shall provide printers designed for single and bulk production of barcode labels. Printers shall be designed and ruggedized for an industrial warehouse environment.

4.3.2. TECHNICAL REQUIREMENTS

The contractor shall provide ruggedized barcode label printers that generate general purpose labels and special purpose labels with special adhesives for use in rugged environments. They shall produce labels on various synthetic and paper label media, utilizing both thermal transfer and direct thermal technologies (portable/wearable printer direct thermal only). The printers shall print barcodes, text, and black and white graphics on the labels. The contractor shall provide barcode label printers with the following features:

- a. The capability to print all barcode symbologies listed in PWS paragraph 3.11, "Barcode Symbologies," at standard densities with at least a Grade A print quality, as defined in ANSI INCITS 182- 1990 (R2002);
- b. The capability to store and produce two forms comparable in size and data content to the DD Form 1348-1;
- c. The capability to print barcodes in all four of the cardinal directions (both picket fence and ladder barcodes);
- d. The capability to print barcode symbologies with a minimum resolution of 203 dots per inch;
- e. The capability to print barcodes, using direct thermal and thermal transfer printing;
- f. A minimum 4 inch throat size; and
- g. Drivers provided for the latest version DISA-approved Microsoft Windows OS (updated with the latest Service Pack).

4.3.3. PORTABLE/WEARABLE BARCODE LABEL PRINTER

The contractor shall provide a portable barcode label printer that can be used as a portable or fixed printer with the following attributes and components:

- a. A printer size that allows the unit to be easily carried with one hand;
- b. Easily fastened to a belt or shoulder strap;
- c. Operating rechargeable batteries and AC adapter;
- d. Host cable to interface to the HHT;
- e. A USB cable to interface to a PC;
- f. Print speeds of at least 1.5 inches per-second;

- g. Print labels while the printer is being carried by the user; and
- h. Print 1200 linear inches of labels on a single battery.

For any device that is not FIPS 140-2 compliant, the contractor shall ship any Bluetooth capable printing device with the Bluetooth transmission set to “off” and ensure that a warning label has been affixed to the device. The device shall utilize an assured radio deactivation method (Reference the definition for Assured Radio Deactivation in section 2.7).

4.3.3.1. Separately Orderable Components

The contractor shall provide the following separately orderable components for the portable barcode label printer:

- a. Battery Charger; and
- b. Printer Carrying Case with shoulder strap (for printer only) to allow the operator to utilize the printer in an industrial setting, while allowing the operator's hands to be free to perform other tasks.

4.3.3.2. Consumable Supplies

The contractor shall provide the following consumable supplies for the portable barcode label printer: one roll of 4”x6” weatherproof labels (minimum 70 labels per roll) for applications where durability and resistance to abrasion, tearing, moisture, chemicals, weathering, and extreme temperatures is required.

4.3.4. STATIONARY BARCODE LABEL PRINTER

The contractor shall provide stationary barcode label printers with the following attributes and components:

- a. Built in diagnostic display and keypad for configuration and troubleshooting;
- b. USB and Ethernet communications ports;
- c. A USB interface cable;
- d. On-demand printing for at least 16 hours per day;
- e. Ability to use a roll of label stock with a diameter of 8 inches;
- f. Automatic sensing for different label sizes; and
- g. Minimum print speed of 6 inches per second.

4.3.4.1. Configurations

The contractor shall provide the following variations of the stationary barcode label printer:

- a. Stationary barcode label printer; and
- b. Stationary barcode label printer with an installed take-up reel that rewinds an entire 8-inch diameter roll of label stock and has the capacity to dispense a self-stripped label on demand.

4.3.4.2. Consumable Supplies

The contractor shall provide the following consumable supplies for the stationary barcode label printer:

- a. One 8-inch diameter roll of 4x6 inch synthetic label stock (minimum 700 labels per roll) ;
- b. One 8-inch diameter roll of 4x3 inch synthetic label stock (minimum 1400 labels per roll); and
- c. Resin-based printer ribbon for 4 inch width labels.

4.4. ITEM UNIQUE IDENTIFICATION (IUID) MARKING AND VERIFICATION EQUIPMENT

4.4.1. GENERAL REQUIREMENTS

The contractor shall provide equipment for producing IUID marks on permanent labels in the Data Matrix ECC200 symbology and DOD IUID specified data syntax.

4.4.2. LASER MARKING EQUIPMENT

The contractor shall provide laser marking equipment with the following attributes and components:

- a. Capability of producing IUID markings on temperature resistant laser-etchable, layered polyacrylic adhesive film and cutting film to actual label size;
- b. Ability to accommodate stock with a minimum size of 5x12 inches;
- c. Integrated carbon/high-efficiency particulate air filtration system;
- d. Safety features to protect the vision of that operator and personnel who may be in proximity to equipment in use;
- e. Ability to accommodate the use of 120 volt 20 amp power; and
- f. Operational software to produce IUID labels.

4.4.3. CONSUMABLE SUPPLIES

The contractor shall provide the following consumable supplies for the laser marking equipment:

- a. 1 each roll (minimum 500 feet) temperature-resistant, laser-etchable, layered polyacrylic adhesive film stock to produce white on matte black marking and
- b. A package of 25 sheets of stock with a size of 5x12 inches.

4.5. VERIFICATION EQUIPMENT

4.5.1. TECHNICAL REQUIREMENTS

Verification equipment shall verify Data Matrix ECC 200 marks to International Organization for Standardization 15415, Society of Automotive Engineers International Aerospace Standard 9132A, and Automatic Identification and Mobility Direct Part Mark 1-2006 Standard. Equipment shall also validate data structure encoded in the marks to DoD IUID syntax. At a minimum, the equipment shall verify marks with cell sizes from 7.5 mils to 25 mils and up to one square inch in overall size. The equipment shall include a USB-to-USB interface cable to connect to a computer operating Windows 10 (or latest version), and shall include necessary software to produce, store, and print verification reports for each mark verified.

The contractor shall provide the following IUID/data matrix verification equipment: Desktop verifier for labels that accommodates label and data plate stock up to 12x24 inches.

4.6. RADIO FREQUENCY DATA COMMUNICATION (RFDC) CONFIGURATIONS

The contractor shall provide DoD Unified Capabilities Approved Products List (UC-APL) -approved RFDC configuration components that use spread spectrum transmission for linking information to material flow in various applications; for example, in yard, warehouse, and retail operations. Configuration components are access points and gateways.

4.6.1. TECHNICAL REQUIREMENTS

The contractor shall provide spread spectrum RFDC equipment conforming to IEEE 802.11 standards. The contractor shall provide components with field-selectable/adjustable frequency bands. Components shall have an operating range of at least 500 feet in open unrestricted environments. Since the allowable power and frequency bands configurations vary from country to country, the contractor shall provide units with allowable output power and frequency bands consistent with the laws, regulations, and rules of the country stated on the delivery order or task order. These components shall comply with requirements of 47 CFR Part 15, Subparts A, B, and C, for Class A digital devices. In order to certify the use of AIT-6 equipment in these environments, the Government may subject representative categories of equipment to radiated emission and susceptibility tests (See MIL-STD 461, latest revision). Components shall maximize net throughput, conform to IEEE 802.11, and provide

TCP/IP addressing.

4.6.2. RF ACCESS POINT (AP)

RF APs are small transceivers that are wired into network configurations (combined transceiver, controller, and bridge between wireless and wired communication). These APs permit two-way communications between mobile RF data collection terminals and a PC or LAN. The contractor shall provide RF APs that provide IEEE 802.11 spread spectrum communications. The RF APs shall be provided with appropriate antenna(s). The RF APs shall have a direct interface for communicating with a host computer. The AP shall be provided with an IEEE 802.3/Ethernet interface card with a 10BaseT connector, implement TCP/IP addressing, and provide Simple Network Management Protocol, and Management Information Base (MIB) I and MIB II reporting. IEEE 802.3 "Power over Ethernet" function shall be provided. APs shall be user configurable by both serial and IP connection. User configuration functions shall allow complete integration into new and existing IEEE 802.11 Wireless Networks.

The contractor shall provide the following types of the RF AP:

- a. AP, protected environment: these RF APs shall be sufficiently ruggedized for use in industrial warehouse and warehouse docking areas when mounted under-cover, and shall comply with the IEC 60529 IP54 (minimum) rating requirement;
- b. AP for worldwide indoor/outdoor use: these RF APs shall be sufficiently ruggedized and weatherproof (rain, wind, etc.) for use in outdoor locations, and shall comply with the IEC 60529 IP66 (minimum) rating requirement.
- c. AP, office environment: these RF APs shall be sufficiently robust for indoor use and do not need to comply with an IEC 60529 rating requirement.

4.6.3. RF GATEWAY

RF gateways provide a communications point between APs and a PC or LAN. The contractor shall provide RF gateways that provide IEEE 802.11 conformant spread spectrum communications. The RF gateways shall have a direct interface for communicating with a host computer. The RF gateways shall be provided with an IEEE 802.3/Ethernet interface card with a 10BaseT connector, shall implement TCP/IP addressing, and provide Simple Network Management Protocol and MIB I and MIB II reporting. The contractor shall provide a FIPS 140 gateway solution to communicate securely with associated FIPS 140 Hand Held Barcode Terminal Client. The gateway solution shall, at a minimum, be FIPS 140-2 Level 2 Compliant and Certified, accommodate 30 LAN-connected APs, accommodate 125 Remote APs, provide wireless intrusion detection and licenses (if applicable), contain software to enforce role based access and security policies to each user or device, and include 8 AP licenses (if applicable). Any Gateway Information Assurance (IA) solution procured must be on the DoD UC APL

(https://aplits.disa.mil/CAS/login?service=https%3A%2F%2Faplits.disa.mil%2Fj_spring_

cas_security_check). The gateway IA solution shall be preloaded and configured on a hardware appliance device prior to delivery to the Government.

4.7. TRANSIT CASES

If additional transit cases are required in the future, contractor shall use best commercial practices in the design and manufacturer of the configured transit cases to protect the contained AIT-6 equipment. The transit cases shall be rigid, stackable, lockable, suitable for rugged environments, reusable, and waterproof to protect AIT-6 components during intermodal transport and storage. Transit cases shall protect AIT-6 components from rugged environment damage resulting from dropping during cargo loading and unloading, and vibration and shock when transported as loose cargo over unpaved secondary roads. The transit case shall be flexible enough to absorb shock, yet durable enough to protect the contents from forces striking the case from any angle. Transit cases shall be equipped with automatic pressure-vacuum relief valves to accommodate differences in pressure from sea level up to an altitude of 40,000 feet.

4.7.1. CONTENTS

The contractor shall provide transit cases that contain cutouts or molded cushioning to protect the contents from damage during transit and storage. AIT-6 components contained within the transit cases shall not be affixed to the case. The transit case cover shall be non-hinged, and inserts shall be split so as to be an integral part of the top and bottom pieces of the case. Cushioning material used for cutouts or molded compartments shall be non-flaking, permanent, reusable, and attached to the transit case.

4.7.2. INVENTORY LIST

Each transit case shall have a durable, permanent inventory list of all AIT-6 components in the case that includes: nomenclature, quantity of each component, number of cases per configuration, and graphic packing instructions. The inventory list shall be affixed to the inside top cover and visible to the user.

4.7.3. TRANSIT CASE COLOR

The contractor shall provide transit cases in olive drab.

4.7.4. TRANSIT CASE SURVIVABILITY

Transit case materials shall be treated or otherwise engineered to protect against transit case deterioration caused by moisture, mold, rot, ultraviolet radiation, industrial solvents, hydraulic fluids, petroleum products, and jet fuel. Transit cases shall be compliant with the requirements identified in PWS paragraph 14.3, "Rugged Environment Certification." All metallic parts shall be corrosion-resistant.

4.7.5. HUMAN FACTOR SIZE, WEIGHT, AND DIMENSION LIMITATIONS

The contractor shall make every effort to minimize the weight, size, and number of transit cases for each configuration. Transit cases shall be able to fit through a 30 inch wide opening, such as a doorway. The weight of the transit case contents shall be evenly distributed between the transit case handles, with a low center of gravity when fully loaded or unloaded. The gross weight of the transit case, plus contents, shall not exceed 130 pounds. The use of the transit case cover for storage shall not make the cover inordinately heavy (more than 37 pounds) or cause problems during the lifting or removal of the cover. The weight lifting limits per transit case shall not exceed those listed below:

- a. One-person lift: 37 pounds;
- b. Two-person lift: 74 pounds; and
- c. Four-person lift: 130 pounds.

4.7.6. HANDLES AND CLASPS

The contractor shall provide transit cases with a sufficient number of handles to facilitate movement by the specified number of personnel. All one-person and two-person lift transit cases shall have at least two handles. Transit cases requiring a four-person lift shall have a minimum of two handles on each side of the case. Handles shall return to a closed position by a spring-loaded mechanism or a simple restraining mechanism when not in use. Handles and clasps shall be recessed, non-reflective, dark in color, non-corrosive, easily accessible, and operable by personnel wearing low-temperature protective gloves.

4.7.7. IDENTIFICATION PLATE

An identification (ID) plate shall be permanently affixed to each transit case. ID plate lines, letters, numerals, and characters shall be permanent and legible in compliance with Military Standard 130 (latest revision), Identification Marking of U.S. Military Property. ID plates and mounting provisions shall be resistant to abrasion, rain and salt spray, and common cleaning solutions. ID plates shall not detach from the transit case when subjected to the elements and extreme temperatures. ID plates shall have smooth edges, and shall be free of blisters, cracks, sharp corners, foreign matter, or any other defects. The ID plate drawings shall be provided to the COR for approval prior to commencement of manufacture of ID plates and the assignment of serial numbers. The contractor shall assign a serial number to each transit case, and this serial number shall be included in the UID.

4.7.7.1. ID Plate Dimensions

ID plate dimensions shall be no less than 1.75 inches wide by 3.0 inches long. The thickness for all ID plates shall be 0.03 inches, plus or minus 0.0005 inches, without backing material.

4.7.7.2. ID Plate Printing

Letters printed on ID plates shall be Gothic capitals, and numbers and characters shall be of similar appearance. The background color shall be black and the printed characters shall be white. Barcodes shall be on a white background with the barcodes printed in black.

4.7.7.3. ID Plate Information

At a minimum, the Government requires the following information on the ID plate:

- a. Contract number;
- b. Contractor And Government Entity (CAGE) Code;
- c. Nomenclature
- d. Transit case serial number;
- e. Government ownership designation: "PROPERTY OF THE U.S. GOVERNMENT";
and
- f. The UID of the transit case group and configuration shall be bar-coded in data matrix symbology.

4.7.7.4. ID Plate Location

ID plates on transit cases shall be located at the left or center of the exterior, vertical surface of the top portion of the transit case that is facing the user when the case is ready to be opened. An ID plate shall also be affixed to the left or center of the exterior, vertical surface of the bottom portion of the transit case that is facing the user when the case is ready to be opened. Location of ID plates shall be consistent for all transit cases.

4.7.8. TRANSIT CASE HEALTH AND SAFETY LABELS

The contractor shall label each transit case to inform users of health and safety considerations before moving or opening the transit case. Transit case health and safety labels shall be placed horizontally (on the front of the case) and externally on the top of each transit case in a consistent manner. The health and safety labels shall identify:

- a. Gross or loaded weight;

- b. Volume in cubic feet and cubic centimeters;
- c. External linear dimensions in inches and centimeters;
- d. The number of persons required to lift the case (for example, "TWO- PERSON LIFT") in accordance with PWS paragraph 4.7.5, "Human Factor Size, Weight, and Dimension Limitations" above; and
- e. Any other considerations that may affect the health or safety of users attempting to lift, move, or open the transit case.

4.7.9. TRANSIT CASE CONFIGURATIONS

If additional configurations are required in the future, contractor shall provide transit case configurations consisting of AIT-6 equipment that meets all of the requirements as individually specified in this PWS. The make and model of all items included in the transit cases specified shall be the same as the individual items listed in the contractor's AIT-6 CLIN list, if applicable. If requested through a task or delivery order, the contractor shall provide transit case configurations that are grouped, as defined in the following; each configuration shall be self-contained, and shall include all necessary adapters, cables and components, and commercial user manuals to operate worldwide. Recognizing that many countries have unique power plug designs, the Government will accept operation with the three plug types designed for use in Central Europe (Germany), North America (United States), and the United Kingdom (Great Britain) as fulfilling the requirement for worldwide operation. Most countries of the world conform to one of these plug types. Generally, the North American type plug is acceptable in North and Central America, Western South America, Japan, and parts of Korea. The Central Europe type plug is acceptable in most of Continental Europe and some of the Middle East and Africa. The United Kingdom type plug is acceptable in Great Britain, Ireland, Malaysia, and many countries in the Middle East and Africa. The contractor shall consolidate applicable accessories with the associated primary component identified in a transit case. Commercial user manuals shall be provided in accordance with PWS paragraph 11.2, "Commercial User Manuals," and secured within appropriate width slot(s) within each transit case.

4.7.10. SMALL ARMS ROOM TRANSIT CASE CONFIGURATION

The small arms room transit case group shall be available for ordering on the AIT-6 contract no later than 90 calendar days after the effective date of contract award.

The small arms room kit transit case group shall, at a minimum, contain the following:

- a. One transit case with foam inserts to support the below items;
- b. One barcode imager for direct part marks, as specified in PWS paragraph 4.2.4, "Imager for PC Input – IUID Direct Part Marking";
- c. LCD touch screen display, minimum of 15 inches;
- d. Portable laser document printer;
- e. Ruggedized notebook computer with touch screen monitor;

- f. Mini port replicator;
- g. USB CAC reader;
- h. Signature pad;
- i. One external back up hard drive with USB interface cable;
- j. One uninterrupted power supply (UPS);
- k. Packing lists for each case; and
- l. Installation manual & hardware manuals for individual products.

The contractor shall provide a hard copy and electronic setup manual with the small arms room kit transit case that specifies the step-by-step instructions, with illustrations, for equipment connection, setup, and use. Each notebook computer shall include an on-line tutorial application to provide the user with all information required to successfully install and operate the kit.

4.7.10.1. KIT CONFIGURATION

The contractor shall provide a small arms room notebook computer that shall, at a minimum:

- a. Have a touch screen display,
- b. Be ruggedized (industrially hardened), with a 250 GB hard drive, 8GB RAM, i7 core processor,
- c. Have a CAC reader; and
- d. Have a combination internal or external DVD-ROM and CDR/RW drive.

The notebook computer shall meet or exceed the IP54/IEC 60529 standard for being sealed against water and dust intrusion. The notebook computer shall weigh no more than seven pounds, and shall be equipped with an additional outdoor viewable point of sale (POS) 15 inch LCD touch screen display for customer user data input to the small arms room kit notebook computer.

The notebook shall accommodate the latest version DISA-approved Microsoft OS (updated with the latest Service Pack), and must implement and be in compliance with the International Standard ISO/IEC 11889:2015 or the Trusted Computing Group TPM 2.0 Library, revision 1.16 (or later) specification. The contractor shall harden the OS to the DISA FSOS-CAP. The POC at the DISA isdisa.letterkenny.re.mbx.stig-customer-support-mailbox@mail.mil. The small arms room kit notebook computer shall be capable of hosting the small arms room management software described in PWS paragraph 5.2, "Small Arms Room Management Software."

5. SOFTWARE AND FIRMWARE REQUIREMENTS

The contractor shall provide software that will operate on a variety of Government-owned workstations and on AIT-6 equipment provided under this contract. The contractor shall provide barcode label and form design software and IUID marking

integration software. The contractor shall provide all AIT-6 software. All AIT-6 software shall include a perpetual license for use by the Government.

5.1. BARCODE LABEL AND FORM DESIGN SOFTWARE

Barcode label and form design software is a set of programs in one package that shall allow the Government user to design and print barcode labels and forms. The contractor shall provide barcode label and form design software with graphic functions, as well as ISO 9075-3 SQL Call-Level Interface (open database connectivity). The software shall generate low, medium, high, and ultra-high Code 39 barcodes, as well as the other barcode symbologies listed in PWS paragraph 3.11, "Barcode Symbologies." The software shall generate DD 1348-1 and DD 1387 forms, and shall be designed to drive the provided barcode label printers. The contractor shall provide software that allows rapid label and form design, without having to learn the complexities of barcode symbologies and printer control languages; displays a "what-you-see-is-what-you-get" editor for designing barcode labels and forms; and allows viewing of barcode labels and forms prior to printing. The software shall permit the use of fixed or variable data for label or form text and barcodes, and shall import information to be used with labels and forms from databases. The barcode label and form design and printing software shall execute under the latest version DISA-approved Microsoft Windows OS (updated with the latest Service Pack). The software shall perform network printing, and no custom programming shall be required for use.

5.2. SMALL ARMS ROOM MANAGEMENT SOFTWARE

The contractor shall provide commercial automated small arms room management software. The software shall use both barcode and data matrix-based AIT, including data matrix encoded unique item identifiers, compliant with MIL-STD-130 (latest revision), to automate processes related to all small arms and other serially managed items found in Army arms rooms. The automated processes shall include, at a minimum, issue, receipt, inventory, maintenance management, and ammunition management. The software shall assign specific serialized arms and accessories to specific soldiers and control issues based on those assignments. The software shall produce standard and ad-hoc management reports, an automatic data backup capability and document transactions on appropriate standard Army printed forms. Access to the system shall be CAC-enabled. The software shall be deployable and allow use of its full suite of capabilities in both garrison and field environments, such as the Army's National Training Center. The small arms room management software shall support the assignment and labeling of uniquely managed items not marked with standard UII with machine-readable temporary unique identifiers and associate items to their assigned serial numbers and to their UIIs, if assigned. For uniquely managed items lacking UIIs, the small arms room management software shall associate to temporary unique identifiers and provide capability to issue and receive the armory assets using electronic signatures and CACs. The small arms room management software shall allow performance of manual inventories and input of that data to the digital arms room module and manage non-standard weapons and sensitive items. The small arms room

management software shall support continuity of operations by providing data backup and a process for data recovery. The software shall provide an automated capability to restrict issue of weapons for administrative reasons.

The Government requires the following functions and capabilities to be included in the small arms room management software: maintain a lifecycle history of items while managed by the system, including issues, turn-ins and maintenance; provide host Interactive Electronic Technical Manuals (IETM), to include ability to use all IETM features not requiring external communications; provide a capability to read and store information from all types of standard Army barcoded media and ECC200 data matrix symbology, employing the area imager in the keyboard wedge mode; maintain and track training information related to Soldier skill qualification on items in the arms room; provide a warning when a Soldier's qualification does not match an item's skill qualification requirement; provide an intuitive user interface that requires minimal training; enable automated cyclic inventory scheduling; automate key control management; automate the production of weapons cards; provide a feature during system shut down that will alert the armorer to weapons pending return; provide automatic alerts for issued items not returned to the arms room as scheduled; and automate functionality of current key control registers for weapons, weapon racks and trigger locks (DA Form 5513, Key Control Register and Inventory), and for Standard Forms 701, DA Forms 3749, DA Forms 2062 and DA Forms 2404.

5.3. FIRMWARE REQUIREMENTS

The contractor shall provide necessary firmware as part of the equipment configuration of AIT-6 contract components. Firmware shall reflect the baseline configuration and all subsequent Government-approved engineering changes. All firmware shall be installed prior to equipment delivery.

5.4. COMMERCIAL SOFTWARE LICENSES

Commercial software and commercial software documentation delivered under this contract shall be subject to the terms of this clause and the governing commercial product license, to the extent the latter is consistent with Federal law and FAR 12.212, and otherwise meets the Government's needs. Notwithstanding the foregoing, the commercial product license shall apply only if a copy of the license is provided with the delivered product. In the event of conflict between this paragraph and the commercial software product license, this paragraph and the following subparagraphs shall govern.

Unless otherwise mutually agreed, all commercial software shall be licensed and priced for use on a single computer. The license shall be in the name of the U.S. Government and perpetual (also referred to as a nonexclusive, paid-up, world-wide license). Software and software documentation shall be provided with license rights no less than rights provided with the software and software documentation when sold to the public. The license shall apply to any software changes or new releases.

Notwithstanding the foregoing, the Government's rights to software developed per the PWS Paragraph 10.1.6, "Software Development Services," shall be governed by DFARS 252.227-7014, Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation and DFARS 252.227-7019, Validation of Asserted Restrictions-Computer Software.

6. SECURITY

6.1. SECURITY STANDARD

All vendor solutions shall conform to the policies, requirements, and capabilities definitions for Unified Capabilities (UC), if/as applicable. UC compliant products must have completed Interoperability (IO) and IA certification and be posted on the DoD UC APL (<https://aplits.disa.mil>). However, products offered on the AIT-6 contract that do not fall into the scope of the Unified Capabilities Requirements (UCR) or fall into an existing product category, still shall meet all the requirements outlined in this IA section of the PWS. When product version updates are announced on the DoD UC APL, the Contractor shall make available the updated version for their currently fielded HHTs and integrate the updated version into the HHTs for new orders no later than 90 days after the product has been incorporated on the DoD UC APL. It is the contractor's responsibility to monitor the DoD UC APL to identify any required hardware or software additions and changes.

The contractor shall comply with the following standards and Government guidelines, to include all new versions, amendments, and modifications made to the listed documents and standards, as applicable.

- a. Office of Management and Budget (OMB) Circular No. A-130 Revised (Transmittal Memorandum No. 4), Management of Federal Information Resources – Appendix III, Security of Federal Automated Information Resources, 28 November 2000.
- b. National Institute of Standards and Technology (NIST) Federal Information Processing Standards (FIPS) Publication 140 – 3, Security Requirements for Cryptographic Modules, 22 March 2019.
- c. DoDD 8100.02, Use of Commercial Wireless Devices, Services, and Technologies in the Department of Defense (DoD) Global Information Grid (GIG), April 14, 2004 (Certified Current as of April 23, 2007).
- d. Department of Defense Instruction (DoDI) 8420.01, Commercial Wireless Local-Area Network (WLAN) Devices, Systems, and Technologies; November 3, 2017.
- e. DoDI 8500.01, Cybersecurity, March 14, 2014.
- f. DoDI 8510.01, Risk Management Framework (RMF) for DoD Information Technology (IT), March 12, 2014.

- g. Army Regulation (AR) 25-2, Army Cybersecurity, 4 April 2019.
- h. Department of the Army Pamphlet (DA PAM) 25-2-9, Wireless Security Standards, 8 April 2019.
- i. DFARS 252.239-7001, Information Assurance Contractor Training and Certification, January 2008.

After award, the contractor may propose alternatives at no additional cost to the Government that meet or exceed the provisions of the listed standards.

6.2. DOD INFORMATION ASSURANCE REQUIREMENTS

All devices and/or systems provided by the contractor that receive, process, store, display or transmit information shall comply with the applicable IA requirements specified in DoDI 8500.01, Cybersecurity. Examples of systems that must meet these IA requirements include, but are not limited to: stand- alone information systems; networked computers and servers; mobile computing devices, such as laptops, handhelds, and personal digital assistants operating in either wired or wireless mode; and other information technologies as may be developed and/or proposed by the contractor.

6.3. DOD WIRELESS DEVICE SECURITY REQUIREMENTS

AIT-6 implementations that utilize IEEE Standard 802.11 WLAN products to store, process, or transmit unclassified information shall comply with the requirements specified in DoDI 8420.01, Commercial Wireless Local-Area Network (WLAN) Devices, Systems, and Technologies.

6.4. ARMY WIRELESS DEVICE SECURITY REQUIREMENTS

Army AIT-6 implementations that utilize IEEE Standard 802.11 WLAN products or other wireless technologies to store, process, or transmit unclassified information shall comply with the applicable requirements specified in AR 25- 2, Cybersecurity, and DA PAM 25-2-9, Wireless Security Standards.

6.5. COMMON CRITERIA COMPLIANCE REQUIREMENTS

Common Criteria compliance is determined and verified by favorable product testing against a Common Criteria Protection Profile (CCPP). CCPPs are developed under sponsorship of the National Security Agency (NSA). Common Criteria tests are conducted by a Common Criteria Test Laboratory (CCTL) that has been approved and accredited by the National Information Assurance Partnership (NIAP). NIAP is a partnership agreement between NSA and NIST. Upon approval and adoption of a CCPP for AIT-6 technology, for which no CCPP exists, the contractor shall, no later

than six months after the adoption of a relevant CCPP submit product(s) with documentation to a designated CTL for Common Criteria testing. Subsequently, only products tested and compliant at the Medium Robustness level (as defined in the CCPP standard) shall be provided under this contract. Information regarding Common Criteria Compliance can be obtained from the following website:
<http://www.commoncriteriaportal.org/>.

6.6. SECURITY ASSESSMENT AND AUTHORIZATION SUPPORT

The contractor shall support all Government efforts to obtain assessment and authorization for the products provided under this contract in accordance with the guidance contained in the DoDI 8510.01, Risk Management Framework (RMF) for DoD Information Technology (IT). In support of the Government's assessment and authorization activities, the contractor shall provide copies in vendor format of component design specifications, component user manuals, and results of any security tests already completed. For testing in support of assessment and authorization, the contractor shall provide the Government with access to contractor personnel involved with the design, engineering, operations, and security attributes of the products.

6.7. SECURITY MAINTENANCE SERVICES

The contractor shall ensure that the devices and/or systems provided under this contract comply with all new versions, amendments, and modifications made to the security documents and standards cited in this PWS, when applicable and commercially available. To ensure continued compliance, the contractor shall perform the necessary configuration changes, as approved by the Government. These configuration changes may include, but are not limited to, performing system configuration changes; installing patches and bug fixes; and conducting hardware/software upgrades, updates, and replacements.

6.8. GOVERNMENT EVALUATION

The contractor shall support Government compliance verification evaluation and security certification and accreditation of the products provided under this contract. The Government will coordinate the scheduling of any evaluation with the contractor. The contractor shall cooperate with Government personnel and Government representatives who plan, conduct, and report any Government testing. Support of Government testing, when requested, includes providing the Government or its agents access to contractor facilities, documentation, and/or personnel used by the contractor to produce the products provided under this contract. The contractor shall assist in resolving any problems resulting from the Government verification evaluations and the security certification and accreditation process.

6.9. PRODUCT SOLUTIONS ON CONTRACT

Upon contract award, for products not currently on the DoD UC APL, the contractor will

have 21 days to complete all documentation and submit the necessary paperwork to conform to the policies, requirements, and capabilities definitions for UCR to the governing body. Until such products have completed IO and IA certification and are posted on the UC APL (<https://aplits.disa.mil>), the Government reserves the right to place these products on CONTRACT RESERVE. During the period of contract performance, any new products, substitutions based on end-of-life issues, or insertions based on contract change proposals for new technology will also conform to the same stipulation. In addition, post-documentation submission, the contractor shall provide the PMO COR with email updates regarding the status of the product posting on the DoD UC APL until such time that it appears.

7. MANAGEMENT

THE REQUIREMENTS STATED WITHIN THIS PARAGRAPH/SECTION WILL NOT BE SEPARATELY PRICED

7.1. PROGRAM MANAGEMENT

The contractor shall provide the following AIT-6 program management activities and services:

- a. Provide a response within two-work days to program issues and problems associated with the execution of the contract, as identified by PMO;
- b. Support, by means of Electronic Commerce/Electronic Document Interchange (EC/EDI), web access for contractor-provided information and data;
- c. Maintain accurate records;
- d. Provide a response within one workday to PMO questions unrelated to subparagraph a, above;
- e. Provide information to various services and agencies with the approval of PMO;
- f. Receive and process customer delivery orders, GPC orders, and task orders;
- g. Develop, update, and maintain the ordering catalog;
- h. Coordinate shipments and deliveries;
- i. Report order and delivery status;
- j. Provide the requisite warranty services required by this contract;
- k. Maintain warranty records;
- l. Provide access for AIT-6 users to an identified customer support database location for this contract. The database shall, at a minimum, contain information on delivery order/task order status; product support issues, such as recalls or problem reports; product safety; and product news;
- m. Develop and execute an AIT-6 management plan that incorporates configuration management and risk management (see PWS paragraph 7.2);

- n. Schedule project reviews and internal seminars and conferences, and present contractor's vision of new technology;
- o. Schedule and perform demonstrations at contractor's discretion;
- p. Prepare presentations and participate in Project Progress Reviews (PPR);
- q. Provide Monthly Asset Management Reports (see PWS attachment 3 to include Warranty Status information);
- r. Provide Monthly Equipment and Service Reports (MESR) (see PWS attachment 2);
- s. Report contractor manpower information in accordance with PWS paragraph 7.2.5, "Contractor Manpower Reporting"; and
- t. Ensure DoD Anti-terrorism policies are supported (see PWS section 18).

7.1.1. POINTS OF CONTACT

The contractor shall provide a list of contractor POCs to the COR no later than ten workdays after the effective date of the contract. The list shall include names, telephone numbers, e-mail addresses, and areas of responsibility for the AIT-6 contract. The contractor shall notify the COR no later than five workdays after the replacement of a POC of the new POC's information.

7.1.2. CONTRACT PROGRAM MANAGER

The contractor shall identify to the Government a program manager for the AIT-6 contract. The program manager shall, at no additional cost to the Government, be available with 24-hours notice to meet with the Government at PMO facilities. The AIT-6 contract program manager shall address and resolve AIT-6 programmatic issues, facilitate information exchange with the Government, and facilitate management coordination.

The contractor's AIT-6 program manager shall manage and be the POC for all delivery orders, task orders, and GPC orders, and shall be the contractor's authorized POC for the PMO, the COR. The contractor's AIT-6 program manager shall be responsible for formulating and enforcing work standards, assigning schedules, reviewing work discrepancies, and communicating the organization's policies, purposes, and goals to the assigned contractor personnel for performance of this contract.

7.2. MANAGEMENT PLAN

The contractor shall provide an AIT-6 management plan. The plan shall be submitted to the COR no later than 30 calendar days after contract award. The PMO will either approve the management plan, or provide comments to the contractor for incorporation into the management plan. The contractor shall then have 10 workdays to incorporate the Government's comments into the plan, and resubmit the plan to the COR. The contractor shall manage the contract in accordance with the Government-approved AIT-

6 management plan. The AIT-6 management plan shall include, but not be limited to, the following:

- a. Management and reporting methodology for gathering, validating, and venerating reports;
- b. AIT-6 configuration management plan;
- c. Risk management;
- d. Repair approach;
- e. Integrated process team (IPT) methodology;
- f. Electronic commerce and electronic data interchange methodology;
- g. Website methodology;
- h. Training development and support;
- i. Technology assessment and control; and
- j. Logistics support, to include the contractor's approach to satisfying unusual or surge requirements and dealing with crises.

7.2.1. INTEGRATED PRODUCT TEAMS

The contractor shall participate in technical discussions with the Government on AIT-6 technical issues via IPTs and provide minutes of the meetings no later than five workdays after each meeting. IPTs will be composed of Government representatives and support contractors from all functional disciplines, working together to identify and resolve technical issues. IPTs will also recommend courses of action to the Government to make sound and timely decisions, build a successful and balanced program, and make maximum use of timely input from the entire team, including customers and suppliers.

7.2.2. PROJECT PROGRESS REVIEWS

The contractor shall conduct project progress reviews (PPRs) for Government personnel at a PMO facility located in the National Capital Region. The PMO will schedule the initial PPR. It is anticipated that the first PPR will occur no later than 60 calendar days after the contract award. Thereafter, PPRs shall occur on a quarterly basis for the life of the contract. During each PPR, the contractor shall present a PowerPoint presentation that addresses the following:

- a. Status of current technological substitutions and insertions;
- b. Status of end-of-life/end-of-sale for all products under contract;
- c. Status of configuration and risk management activities;
- d. Status of task orders, delivery orders and GPC orders, including, but not limited to, received and processed dates (listed by ordering agency), scheduled delivery

- date, shipped date, current contract sales totals status;
- e. Actions under warranty;
- f. Significant trends (industry direction with technology, component reliability safety issues, hardware or software problems, and recommended solutions);
- g. Minutes from the previous PPR;
- h. Activities determined to be of importance to the Government, such as unanticipated problems, and high visibility issues identified by the Government;
- i. Status of significant program events;
- j. Customer feedback;
- k. Agencies and organizations contacted and initiatives with each; and
- l. Reason for delinquent task orders, delivery orders, and GPC orders.

The contractor shall include in each review a current organizational chart that includes the names and telephone numbers of all key personnel, with any key personnel changes highlighted. The key personnel for this contract are as follows:

Software Systems Engineer;

Project Manager;

Senior Programmer performing on task orders;

Contract Program Manager

The contractor shall prepare and coordinate with the COR, an agenda for all PPRs at least five workdays before a scheduled PPR. The contractor shall provide the briefing charts to the COR electronically three workdays prior to the day of the PPR. The contractor shall prepare and coordinate minutes of the PPRs with PMO no later than five workdays after the PPR. Coordination shall be accomplished through electronic mail. The contractor shall post the minutes on the contractor website no later than five workdays after PMO approval. The contractor shall hotlink the website to the PMO website.

7.2.3. MONTHLY ASSET MANAGEMENT AND CONTRACT STATUS REPORT

The Monthly Asset Management Report (MAMT) focuses primarily on equipment orders, obligations, and funding; See PWS attachment 3, which identifies the mandatory fields/data reporting details. The Monthly Contract Status Report (PWS attachment 1) serves as an extension to the MAMT and provides detailed contract sales totals by CLIN, cost, and quantity of product, as well as total amounts of TES orders placed for the entirety of the contract. The report is to present the month, year, and contract-to-date amounts. Totals are to be broken out by military branch of service or non-DoD agency. The contractor shall provide the PMO, the COR, and the contracting officer with a MAMT in MS Excel format via e-mail and post it on the contractor's website for online

viewing and ad hoc inquiries by authorized users. The reports shall be submitted covering the first month after AIT-6 award and shall be provided no later than 10 calendar days after the end of each subsequent month e.g., January report is due by 10 February.

7.2.4. WARRANTY STATUS REPORT

The contractor shall provide a Warranty Status Report once each contract year, as requested by the COR, including, but not limited to, a list of all equipment due to leave warranty status no later than the next twelve months. It shall include the product(s) serial number, model number, Federal agency, unique control number, delivery order number, shipping date, warranty end date, Government user, POC, and telephone number. The initial report format shall be provided by the contractor for Government review and approval no later than 30 calendar days after the contract effective date specified in the Notice to Proceed.

7.2.5. CONTRACTOR MANPOWER REPORTING (CMR)

The contractor shall report all contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract via a secure data collection site. The contractor is required to completely fill in all required data fields using the following web address: <http://www.ecmra.mil/>.

Reporting inputs will be for the labor executed during the period of performance for each Government fiscal year (FY), which runs 1 October through 30 September. While inputs may be reported any time during the FY, all data shall be reported no later than 31 October of each calendar year for the previous FY. Contractors may direct questions to the help desk by clicking on "Send an email," which is located under the Help Resources ribbon on the right side of the login page of the applicable Service/Component's CMR website.

7.3. CONFIGURATION MANAGEMENT

7.3.1. AIT-6 CONFIGURATION MANAGEMENT PLAN

The AIT-6 equipment shall be configuration-controlled, accounted for, and audited in accordance with the Government-approved AIT-6 Configuration Management Plan. The contractor shall provide the AIT-6 Configuration Management Plan as an Annex to the AIT-6 Management Plan, which shall be submitted to the COR for approval no later than 30 calendar days after contract award. The AIT-6 Configuration Management Plan shall reflect best commercial practices, and shall be in accordance with accepted industry standards. The plan shall define those instances when the contractor shall notify the Government of pending changes to the AIT-6 equipment baseline configuration. See guidance on configuration software changes provided in PWS paragraph 7.3.7, "Configuration and Status Accounting (CSA)."

7.3.2. CHANGES AND MODIFICATIONS

- a. All OEM changes prior to contract award shall be included in equipment provided under this contract at no additional cost to the Government. All OEM-approved changes shall be provided to the Government prior to implementation for evaluation, and will be subject to the contracting officer's approval before the changed products may be placed on the contract.
- b. Post award, the contractor shall notify the contracting officer and COR of all OEM-sponsored changes. Such notice shall be provided within 30 calendar days of a product's announced end-of-life/end-of-sale. Submission of draft CCP(s) for potential replacement product(s) shall be provided within 60 calendar days of notification, as required by the Government.
- c. The Government reserves the right to place AIT-6 solutions that have been designated by the Original Equipment Manufacturer as end-of-life or end-of- support in a non-orderable reserve status.

7.3.3. CHANGES TO SOFTWARE

The contractor shall notify the contracting officer of all changes to the software and documentation provided under the contract throughout the warranty period, including any software updates and upgrades (for example, bug fixes, new features, enhancements, and revisions) as they become available. Software changes are further defined as any software product and documentation, which is provided for any other customer free of charge, or which the software manufacturer does not consider a new product. Changes to software or documentation (e.g., User Manuals), including packaging and shipping, shall be provided at no additional cost to the Government.

7.3.4. NOTIFICATION OF SOFTWARE CHANGES

The contractor shall provide the PMO one copy of the changed software/firmware, with documentation (e.g., User Manuals), for each affected software/firmware item previously accepted by the Government.

The PMO defines a software version change as a change to software/firmware identified to the left of the decimal point. For example, Microsoft Windows 10.0 changing to Windows 11.0 would be a version change and require a CCP to be submitted to the PMO by the contractor.

The PMO defines a software revision change as a change to software/firmware identified to the right of the decimal point. For example, Microsoft Windows 10.0 change to 10.1 or 10.2 would be a minor revision change that shall require the contractor to provide written notification to the PMO; however, a CCCP is not required. After Government evaluation of the changed software/firmware, the contracting officer will notify the contractor of the acceptance or rejection of the latest release.

7.3.5. CORRECTION OF SAFETY HAZARDS OR EQUIPMENT MALFUNCTIONS

In accordance with commercial practices, the contractor shall notify the contracting officer and PMO of all OEM-sponsored changes to correct safety hazards or equipment malfunctions. The contractor shall implement changes to correct safety hazards in accordance with commercial practices. The implementation shall be in accordance with a mutually agreed-upon schedule. All such changes shall be implemented at no additional cost to the Government.

7.3.6. CONFIGURATION AUDITS

The Government is required to maintain configuration control over functional and performance requirements (form, fit, and function). Subject to the issuance of a TES task order, the contractor shall support the Government in performing functional configuration and physical configuration audits. The contractor shall provide a demonstration of the equipment. At least seven workdays prior to commencement of the equipment demonstration, the contractor shall deliver a demonstration plan to the Government. The plan shall include the agenda, demonstration procedures, and a matrix identifying the baseline equipment. The baseline matrix shall include, at a minimum: equipment nomenclature, model number, firmware version, software version, relevant specification paragraph, and any constraints. The matrix shall be in MS Excel format.

7.3.6.1. PHYSICAL CONFIGURATION AUDIT

A physical configuration audit (PCA) is the formal examination of the “as-built” configuration of a commercial item against its technical documentation to establish or verify the commercial item’s product baseline.

7.3.6.2. FUNCTIONAL CONFIGURATION AUDIT

A functional configuration audit (FCA) is the formal examination of the functional characteristics of a configuration item to verify that the item has achieved the requirements specified in its functional and allocated configuration documentation. The Government’s configuration management team or quality control representative performs the FCA by auditing the requirements specifications against the AIT-6 contractor specifications for each configuration item (hardware, middleware, and software).

7.3.7. CONFIGURATION AND STATUS ACCOUNTING (CSA)

The intent of configuration and status accounting is to provide a reliable source of configuration information that is required for configuration management, and to support other program activities, such as program management, systems engineering, manufacturing, software development and maintenance, logistics support, modification, and maintenance. Some goals of configuration status accounting within configuration management are to provide traceability of configuration baselines and changes; and to collect and document data concerning configuration identification, such as proposed

changes and approved changes.

The contractor is responsible for the maintenance of all CSA records regarding configuration to AIT-6 software/firmware, i.e. versions and revision level changes. As part of configuration management, the contractor shall have a method established that tracks the changes made to software and documentation. The method of conducting the configuration management and status log for tracking the changes shall be outlined in the configuration management plan. A configuration status log shall be placed in the beginning of the ordering catalog, with the baseline software and firmware and subsequent approved versions and revisions annotated. It is important that the information about the version changes and revisions also be available on the contractor's website, so customers can verify current software versions and see if their software/firmware has had any updates/patches. The CSA log for change proposals shall contain the following elements, at a minimum:

- a. Contractor change proposal number, if required
- b. Change proposal title
- c. Submission date
- d. Current software name and version/revision number
- e. Proposed software name and version/revision number
- f. Reason for and description of change and identification of any baseline-documents affected
- g. Change impact on legacy equipment – i.e. any compatibility, interoperability, or logistic support issues
- h. Proposal implementation (as required)
- i. Implementation cost
- j. CLIN(s) to which the change relates
- k. Is the Configuration Item in production? If yes, provide information as to whether deliveries have been completed on the contract(s)
- l. If the proposed change is an interim solution, it shall be so stated.

The CSA shall be updated as modifications are received and in accordance with the PWS. This will be accessible (read only) by users via the internet.

7.4. RISK MANAGEMENT

Risk management is an essential part of program management. The contractor shall continually identify, assess, manage, and control project risks. The objective is to reduce program uncertainties, and to classify risks according to their probability of occurrence and possible consequences. In accordance with the Government- approved management plan, the contractor shall identify project risks or actions that affect the accomplishment of program objectives. The program risk events include, but are not limited to:

- a. Technical performance

- b. Operational performance
- c. Schedule performance
- d. Training
- e. Technical standards
- f. Logistics readiness

The contractor shall prioritize project risks and determine the status of risk reduction or mitigation efforts. The contractor shall report the status of risk management efforts during the PPRs.

7.5. MONTHLY EQUIPMENT AND SERVICE REPORT

The monthly equipment and service report (MESR) focuses primarily on equipment problems/issues, resolution, and tracking of assets under repair. The contractor shall provide the PMO, the COR, and the contracting officer with a MESR in MS Excel format via e-mail and post it on the contractor's website for online viewing and ad hoc inquiries by authorized users. The initial MESR shall be submitted covering the month the first AIT-6 item is received by the contractor for warranty, and shall be provided no later than 10 calendar days after the end of each subsequent month, e.g., January report is due by 10 February. PWS attachment 2 (Monthly Equipment and Service Report) identifies the mandatory fields and data required within the report. The contractor shall update the website in near real-time, but no later than seven calendar days from the event associated with the data point or field being updated.

7.6. EQUIPMENT RETURN AND TRACKING

The contractor shall affix a label to all hardware items offered under the AIT-6 contract that states the contractor's name, help desk phone number and website for warranty tracking(excluding power, data, interface cable assemblies, consumable items, HHT screen protectors, HHT styli, HHT detachable hand straps and holsters and HHT carrying case).The contractor shall provide a method to enable the Government user and the contractor to quickly identify and track components being forwarded to and returned from the contractor for warranty services. The contractor shall assign the user a return merchandise authorization (RMA) number prior to the Government mailing in the failed equipment for repair or replacement. The user shall be informed of the RMA number and serial number of each component returned to the contractor for warranty service. All failed equipment returned to the contractor shall be identified by the RMA number. The RMA number will be used by the Government to track the failed component through the warranty process.

8. CUSTOMER SUPPORT

THE REQUIREMENTS STATED WITHIN THIS PARAGRAPH/SECTION, WILL NOT BE SEPARATELY PRICED

8.1. TECHNICAL ASSISTANCE

The contractor shall provide technical assistance as follows:

- a. Troubleshooting and correction of equipment problems;
- b. Processing requests for on-call warranty service;
- c. Processing mail-in warranty service issues; for example, assigning RMA numbers; and
- d. Providing contractor address for repair/warranty processing.

8.1.1. TOLL-FREE CUSTOMER SUPPORT HELP DESK

The contractor shall provide toll-free telephonic support for a customer support help desk in CONUS and OCONUS. The help desk shall be staffed 12 hours a day, 0700 EST to 1900 EST, seven days per week, except when U.S. Government holidays and OCONUS Host Nation holidays coincide. The help desk shall respond to the user's call no later than four business hours after receiving the call 95 percent of the time; maintain a database of calls received and acted upon; and track user calls for troubleshooting assistance. Except for the purpose of leaving a phone number for the contractor to return a call no later than one hour later during periods of high call volume, recorded answering services are not acceptable to the Government; however, the contractor may use an on-line knowledge base and an on-line RMA input functionality to assist help desk staff meet the workload. Contractor personnel staffing the customer support help desk shall possess sufficient expertise to recommend troubleshooting procedures and possible corrective actions for equipment and software acquired under the AIT-6 contract. Contractor personnel staffing the help desk shall understand and speak fluent English. The contractor shall maintain records of user calls for troubleshooting assistance that capture the following: failed item POC, location, date, problem, and resolution. This information shall be provided in the MESR.

8.1.2. WEBSITE

The contractor shall establish and maintain an internet site accessible for Government users and available no later than 60 calendar days after the contract award. Customer access to the internet catalog portal shall not require registration nor a password, shall be linked via the PMO website, shall be available through the ordering period, and shall be available daily on a 24-hour basis. At a minimum, the website shall include or provide hotlinks to:

- a. Methods for users to track status of delivery orders and task orders using the Government's order number and a unique control number;
- b. Warranty support*;
- c. Warranty service tracking using the RMA number;
- d. Exchange of technical information between the contractor and individual users and groups;

- e. POC, telephone, email address and mailing address;
- f. Technical troubleshooting support;
- g. Failed equipment tracking and status;
- h. Access a non-password protected ordering catalog;
- i. Reference and user manuals (i.e., commercial manuals, technical manuals, software manuals);
- j. Project management reports (e.g., schedules, IPT and PPR minutes, etc.);
- k. Recent news items from the PMO or the contractor (e.g., notifications of the website being down for maintenance, etc.);
- l. Other data, as mutually agreed to by the Government and the contractor;
- m. AIT-6 device drivers; and
- n. List of products that fully comply with Section 508 of the Rehabilitation Act and Section 255 of the Communications Act, as set forth at 36 CFR Part 1194.

*Information about a product's warranty support shall be made available through a website and/or customer support number until the expiration of the warranty for the last item sold under the contract.

The contractor shall ensure that all device drivers required to operate AIT-6 equipment are posted to the website. At a minimum, the contractor shall post to the website those drivers that were developed by the contractor for use under the contract. All initial drivers shall be posted to the website no later than 60 calendar days after the contract award. New and updated drivers shall be posted to the web site no later than 48 hours after the COR's approval. In the event that drivers are updated, the original version shall also be maintained on the website.

8.2. WARRANTY SUPPORT

The contractor shall repair or replace all failed AIT-6 components covered under warranty in this contract in accordance with the procedures outlined below. The contractor shall immediately notify the ordering contracting officer and order POC about equipment requiring repair or replacement due to apparent user abuse, negligence, or missing significant parts, such as circuit cards or boards.

The warranty shall not apply if damage to the equipment is caused by fault or negligence of the Government. During the equipment warranty period, the contractor shall implement changes to correct equipment malfunctions in accordance with best commercial practices. The implementation shall be in accordance with a mutually agreed-upon schedule. These changes shall be made at no additional cost to the Government. The warranty shall fully protect the Government against equipment malfunctions due to material defects, workmanship, or intrinsic operating problems.

The warranty period for items ordered by delivery order shall begin upon Government acceptance of the equipment. In the event the contractor is authorized to use a

Certificate of Conformance, the warranty period for items ordered by a delivery order shall begin on the date of shipment. For GPC orders only, the warranty begins on the day the order is accepted by the Government. The warranty shall include mail-in procedures and on-call procedures, as specified below.

8.3. WARRANTY MAIL-IN PROCEDURES

The requirement for warranty mail-in service, including commercial carriers, is that the contractor shall bear all shipping costs, both from and back to Government sites (CONUS and OCONUS). The contractor shall be responsible for the equipment from the time of receipt until safe return to the Government. The Government will provide the contractor with any unusual transportation instructions for return shipment after repair. When the user does not require the same serial number equipment, the contractor shall ship a replacement item no later than 24 hours after notification of failed AIT-6 components.

If the user requires the same serial number equipment, the contractor shall restore all malfunctioning equipment covered under warranty to a fully operational condition and ship the equipment back to the user no later than ten workdays after receipt of the failed equipment (CONUS and OCONUS). In the event a same serial number component requested by the user cannot be repaired, the contractor shall notify the Government user no later than three workdays after receipt of the component at the contractor's facility. AIT-6 returned warranty items marked with an IUID that require change of custody must be coordinated with the customer and reported to the DoD IUID Registry by the contractor. The Government user will provide the contractor with disposition instructions for un-repairable AIT-6 components.

8.4. WARRANTY REPLACEMENT PARTS

The requirement for contractor warranty service is that only new parts, or parts warranted as new by the OEM, shall be used for repairs of failed Government AIT-6 components. Additionally, all replacement parts shall be equal to or better than the replaced parts in terms of quality and performance. The warranty for all replacement items installed during the initial warranty period shall be equal to the remaining warranty period for the original item, or 90 calendar days, whichever is greater. Failed parts replaced by the contractor shall become the property of the contractor. However, the Government reserves the right to purchase unserviceable parts containing sensitive or classified material, as required by statute or regulation.

8.5. WARRANTY ON-CALL PROCEDURES

The contractor shall provide on-call warranty service for AIT-6 IUID marking equipment in CONUS only. The requirement for CONUS locations is that the contractor shall provide on-call repair no later than three workdays after notification. The contractor shall provide on-call warranty service outside the official hours of operation when required by the using activity. When warranty service outside the official hours of operation is

ordered in CONUS locations, the contractor shall replace or return the equipment to a fully operational status no later than five calendar days from the time the contractor is notified of the malfunction. The contractor shall provide on-call warranty service support to repair the item on-site.

9. MAINTENANCE

9.1. SOFTWARE MAINTENANCE

Software maintenance shall coincide with the required software warranty duration under this contract (see section 3.12) and shall include all fixes, updates and changes necessary to maintain the software in an operational state.

9.2. PREVENTIVE MAINTENANCE

Preventive maintenance includes all actions performed in an attempt to retain an item in a specified condition by providing systematic inspection, detection, and prevention of potential failures. Unless otherwise specified, Government personnel will perform all preventive maintenance for items acquired under this contract. The contractor shall provide to the Government, in detail, all requirements and procedures for preventive maintenance and troubleshooting-level diagnostics in documentation and user manuals. The contractor shall provide material safety data sheets (MSDS) to the contracting officer, COR and all users, as specified in the individual order, in accordance with FAR 52.223-3. The contractor shall provide documentation for each hardware CLIN that shall include preventive maintenance checks, service schedules, and troubleshooting-level diagnostics. The contractor shall be responsible for all other maintenance and support.

10. TECHNICAL ENGINEERING SERVICES (TES)

10.1. GENERAL

The contractor shall provide TES on-site at Government sites and at the contractor's facility, as specified in the task order. TES shall include those services required for AIT-6 turnkey implementation, IUID implementation support, equipment integration, site analysis, installation, de-installation, relocation, problem-solving, user unique training, IPT support, conducting PCAs/FCAs, software development, communications, interfaces to other Government systems, equipment and systems engineering services, system design, and systems integration, to include middleware integration to enterprise systems. Any cables or adapters not listed in this contract, middleware, or other items and materials required for installation of contractor-provided AIT-6 components may be ordered through the contract in accordance with PWS paragraph 10.1.2, "Incidental Materials."

10.1.1. PROPOSAL REQUEST FOR TES

Upon receipt of a request for proposal (RFP) for TES, which includes a description of

the tasks, the contractor shall submit a price proposal or 'No-bid' response as soon as possible, but not more than fifteen workdays after receipt of the request, unless so agreed to by the ordering contracting officer. The contractor's proposal shall contain sufficient detail to enable the Government to determine the acceptability of the proposal, and shall include, at a minimum:

- a. A brief description of the technical approach which demonstrates the contractor's understanding of the task(s);
- b. Proposed timeline schedule;
- c. Proposed labor categories from the master SLIN Listing and the number of hours for each category;
- d. Proposed incidental materials, including a price and description of each item;
- e. Proposed price for travel, with a breakout of airfare(s), per diem, rental car(s), and any other travel-related expenses;
- f. For turnkey proposals only:
 - i. Proposed AIT hardware and software CLINs/SLINs required for the proposed solution, and
 - ii. Any required Government-furnished AIT and Active RFID hardware and software and the associated logistical requirements (e.g., locations and dates for the Government to furnish the items).

The Government will negotiate a total firm-fixed price (FFP) for the effort, excluding travel and incidental materials. This FFP will include all labor and per diem required to complete the effort, and will be included in the task order according the labor categories listed under SLIN 0017xx. If applicable, the Government will negotiate a separate FFP price for the incidental materials, which will be included in the task order at SLIN 0021AA. The incidental materials will be consistent with PWS paragraph 10.1.2, "Incidental Materials."

The using activity representative, as stated on each task order, shall perform inspection and acceptance of all the items contained on the order.

PoP for TES cannot extend beyond 12 months from contract expiration.

10.1.2. INCIDENTAL MATERIALS

Incidental materials shall only include those items or materials necessary to complete the installation service ordered in accordance with PWS paragraph 10.1.1, "Proposal Request for TES." The price for the items/materials shall be negotiated on a FFP basis for each task order, if required. The total negotiated price for incidental materials for each task order shall not exceed \$100,000.

10.1.3. TRAVEL

The contractor may be required to travel in performance of task orders issued under the AIT-6 contract. Allowable travel and per diem costs are governed by FAR Part 31, and are reimbursable by the ordering agency. Travel in performance of a task order will only be reimbursable to the extent authorized by the ordering agency. All costs associated with travel and per diem will not include any type of fee.

10.1.4. TES TRIP REPORT

The contractor shall submit a TES trip report to the task order POC no later than five workdays after the completion of each trip made for TES. The trip report shall be in the contractor's format and shall contain, at a minimum:

- a. Report date;
- b. Customer name, address, POC, e-mail address, and telephone number;
- c. Project name;
- d. Time arrived, time departed;
- e. Any recommended or provided incidental material description;
- f. Contractor's summary of work completed; and
- g. Contractor POC name and signature.

10.1.5. TES RESPONSE TIME

The contractor shall provide TES within the time specified in the task order for specific technical services. The on-site locations and objectives of the TES to be provided shall be stated in the task order.

10.1.6. SOFTWARE DEVELOPMENT SERVICES

Software development services (SDS) shall be limited to development incidental to the AIT-6 related mission that utilizes equipment acquired under this contract. The AIT-6 SDS shall be limited to the development work required to implement, modify, interface, and integrate AIT-6 application(s) to an existing Government application(s) and database(s). Services include new software development, which may include translation of existing Government code that has been determined necessary to ensure operation of the system.

10.2. INSTALLATION/ DE-INSTALLATION/RELOCATION

10.2.1. INSTALLATION/DE-INSTALLATION/RELOCATION

The contractor shall conduct installation/de-installation/relocation services, as specified in the task order, for each location requiring the services. The ordering contracting officer will issue proposal requests with schematic drawings of the Government site.

AIT-6 contractors submitting TES proposals may conduct site surveys at their own expense, or, at AIT-6 contractor's own risk and discretion, rely solely on the Government-furnished site information when formulating their proposals. The Government does not guarantee the accuracy and completeness of the Government-furnished site information.

10.2.2. INSTALLATION/DE-INSTALLATION

The contractor shall install and de-install AIT-6 configurations, as specified in the task order. The contractor shall provide all necessary installation support equipment; cables for the interface of the various components forming an installation, including the AIT-6 devices, servers, peripheral devices; and power sources, as required. Upon receipt of a task order requiring installation/de-installation, and in accordance with the schedule contained therein, the contractor shall install/de-install AIT-6 equipment in accordance with the approved installation plan. In instances where work to be performed by the contractor requires interaction with existing facilities and equipment, the contractor shall be responsible for any damage to existing facilities or equipment. After installation is completed, the contractor shall remove all packing, shipping, and storage materials left over from the installation.

10.2.3. RELOCATION OF AIT-6 COMPONENTS

Upon receipt of a task order requiring relocation of AIT-6 equipment, and in accordance with the schedule contained therein, the contractor shall install AIT-6 equipment in accordance with the approved installation plan. The extent of the services performed by the contractor shall be specified in the task order and may vary from minimal involvement to total responsibility for the relocation.

10.2.4. INSTALLATION PLANS

The contractor shall submit an installation plan, with supporting documentation and attachments, for evaluation as a part of its proposal for TES. The installation plan shall include, but is not limited to, the following items:

- a. Specific details of the methodology for the installation and the resources required;
- b. Detailed description, by major subheadings, of all installation work to be accomplished by the contractor at the site, to include scheduling and dependency of the various tasks;
- c. Site layout plan, including detailed drawings of all AIT-6 components, such as racks, cabinets, or consoles;
- d. General component specifications, including equipment, physical specifications, templates, manufacturer's specific machine configuration and space requirements, special operational line-of-sight requirements between various components, lighting requirements, site construction requirements, power requirements, cabling

requirements, network connections, communication lines (including satellite communications), cooling requirements, shipping requirements, and all special requirements that do not fall under normal operating conditions; and

- e. Description of any actions, such as site modifications, which the Government will complete prior to installation of the AIT-6 equipment, in sufficient detail to facilitate successful installation of the equipment.

10.3. CONTRACT SUPPORT PERSONNEL

The contractor shall provide all technical labor categories described in PWS paragraph 10.3.1, "Labor Category Descriptions." The Government will issue proposal requests for specific tasks to be performed under task orders. Personnel performing TES and training under this contract shall possess the qualifications that the contractor requires for, and be part of the same work force, providing such services to the general public. The contractor shall provide labor categories that represent a blend of demonstrated technical, supervisory and managerial expertise, analytical skills and knowledge to provide specific tasks, using efficient and state-of-the-art processes, made up of functions including, but not limited to, the following:

- a. AIT-6 component integration;
- b. Installation and deinstallation;
- c. User unique training, on-site or classroom;
- d. Systems integration;
- e. Complex programming support;
- f. Designing, developing, and troubleshooting complex applications;
- g. Modeling simulation;
- h. Analysis in designing operating systems utilities;
- i. Troubleshooting, following established testing procedures to ensure equipment is operating properly;
- j. Development and revision of technical documentation for software, hardware, and systems;
- k. Testing online documents for correct operation, content and usability;
- l. Analyzing systems to identify project objectives and data elements;
- m. Preparing high level flow-charts and diagrams from which detailed program designs may be further developed;
- n. Database management, associated data analysis and design, and data dictionary tools, as well as distributed systems, and data based development methods and techniques;
- o. Total system development and integration efforts, including all equipment, software, telecommunications, and networks, based on expert knowledge of automatic identification and data capture fields;

- p. Outlining problems, and providing solutions, to data communication projects and problems based on expert knowledge of modern data transfer methods and networks; and
- q. Technical problem analysis and resolution based on expert knowledge of RF equipment and systems, wireless technologies, and wireless test procedures requirement analysis.

10.3.1. LABOR CATEGORY DESCRIPTIONS

TES are firm-fixed priced task orders utilizing the following labor categories where turnkey services are used to fulfill the task order's requirements.

10.3.1.1. Project Manager

The contractor's AIT-6 Project Manager shall serve as primary manager of projects, and shall be responsible for management, performance, and completion of projects, as defined by the individual Task Order. The Project Manager shall be responsible for formulating and enforcing work standards, assigning schedules, and reviewing work performed for Task Orders.

10.3.1.2. Software Systems Engineer

The Software Systems Engineer applies business process improvement practices to reengineer methodologies/principles and business process modernization projects; applies, as appropriate, activity and data modeling, transaction flow analysis, internal control and risk analysis and modern business methods and performance measurement techniques; assists in establishing standards for information systems procedures; develops and applies organization-wide information models for use in designing and building integrated, shared software and database management systems; constructs sound, logical business improvement opportunities consistent with corporate Information Management guiding principles, cost savings, and open system architecture objectives; and provides daily supervision and direction to staff.

10.3.1.3. Programmer / Analyst

The Programmer/Analyst analyzes functional business applications and design specifications for functional activities; develops block diagrams and logic flow charts. Translates detailed design into computer software; tests, debugs and refines the computer software to produce the required product; prepares required documentation, including both program-level and user-level documentation; enhances software to reduce operating time or improve efficiency; and provides technical direction to programmers to ensure program deadlines are met.

10.3.1.4. Senior Programmer

The Senior Programmer analyzes functional business applications and design specifications for functional activities; develops block diagrams and logic flow charts. Translates detailed design into computer software; tests, debugs and refines the computer software to produce the required product; prepares required documentation, including both program-level and user-level documentation; enhances software to reduce operating time or improve efficiency; and provides technical direction to programmers to ensure program deadlines are met.

10.3.1.5. Systems Analyst

The Systems Analyst analyzes and develops computer software possessing a wide range of capabilities, including numerous engineering, business and records management functions; develops plans for automated information systems from project inception to conclusion; analyzes user interfaces, maintains hardware and software performance tuning, analyzes workload and computer usage, maintains interfaces with outside systems, analyzes downtimes, analyzes proposed system modifications, upgrades, and new COTS products; analyzes the problem and the information to be processed; defines the problem, and develops system requirements and program specifications, from which programmers prepare detailed flow charts, programs, and tests; coordinates closely with programmers to ensure proper implementation of program and system specifications; and develops, in conjunction with functional users, system alternative solutions.

10.3.1.6. Junior Programmer

The Junior Programmer participates in the design of software tools and subsystems to support reuse and domain analysis, and assists applications engineer and applications programmer to interpret software requirements and design specifications to code and integrate and test software components.

10.3.1.7. Systems Engineer

The Systems Engineer analyzes and studies complex system requirements; designs software tools and subsystems to support software reuse and domain analyses and manages their implementation; manages software development and support using formal specifications, data flow diagrams, other accepted design techniques and Computer-Aided Software Engineering (CASE) tools; estimates software development costs and schedule; reviews existing programs and assists in making refinements, reducing operating time and improving current techniques; and supervises software configuration management.

10.3.1.8. Data Communications / Network Specialist

The Data Communications/Network Specialist analyzes network characteristics (e.g., traffic, connect time, transmission speeds, packet sizes and throughput) and

recommends procurement, removals and modifications to network components; designs and optimizes network topologies and site configurations; plans installations, transitions and cut-overs of network components and capabilities; and coordinates requirements with users and suppliers.

10.3.1.9. RF Technical Radio Specialist

The RF Technical Radio Specialist focuses on the design and implementation of AIT-6 system. The individual will organize and configure the installation of an AIT-6 site. This includes the proper RF installation of AIT-6 readers, antennas, and printers. The RF Technical Radio Specialist identifies the proper location for the readers at the prescribed distances along the supply chain, on conveyors, at loading dock portals, near palletizers, and mounted on vehicles, and properly deploys hand-held readers for use in warehouses, distribution centers, and field environments. The RF Technical Radio Specialist must be able to identify the physical and RF environments, as well as throughput, speed and accuracy requirements, and must be able to analyze the RF environment to identify any RF interference and take proper measures to avoid RF interference.

10.3.1.10. Technical Writer

The Technical Writer assists in collecting and organizing information required for the preparation of user's manuals, training materials, installation guides, proposals, and reports, and edits functional descriptions, system specifications, user's manuals, special reports, or any other customer deliverables and documents.

10.3.1.11. Technical Training Specialist

The Technical Training Specialist conducts the research necessary to develop and revise training courses; develops and revises these courses and prepares appropriate training catalogs; prepares instructor materials (course outline, background material, and training aids); prepares student materials (course manuals, workbooks, handouts, completion certificates, and course critique forms); and trains personnel by conducting formal classroom courses, workshops and seminars.

10.3.1.12. Instructional Design and Development Specialist

Under minimal direction, the Instructional Design and Development Specialist conducts needs analysis of groups, processes, or products to identify performance requirements of training and curricula to insure effectiveness in achieving desired training results and meet mission objectives; analyzes, delivers, and evaluates training and support materials; assures delivery of training courses supporting specific customer needs; enhances customer satisfaction and loyalty by assisting in the definition, implementation, rollout, marketing, and continual evaluation of the program; provides consulting services to customers on all program aspects, to include program

development, organizational readiness, and marketing strategies; and manages implementation/deployment projects for new and upgraded products and services.

The Instructional Design and Development Specialist must be able to coordinate interaction between Government and contractor to support and enhance client program initiatives, quality assurance, and problem resolution; contribute directly to the building of customer goodwill, satisfaction, and loyalty; facilitate defining/enhancing the client's business needs, goals, success criteria, and program strategy; and demonstrate excellent teamwork and strategic partnership skills and abilities.

11. DOCUMENTATION REQUIREMENTS

11.1. GOVERNMENT RIGHTS

The Government shall have full and unrestricted rights to use and reproduce for its own use all documentation provided under this contract. The contractor shall provide the AIT user community with online access to, including the capability to download, all user manuals and software reference documentation for any piece of equipment that interfaces with a host computer system. User manuals and software documentation shall be in English and in the contractor's format using Portable Document Format (PDF) files.

11.2. COMMERCIAL USER MANUALS

The contractor shall provide a quick-start guide for each piece of equipment that provides step-by-step procedures for major functions performed by the equipment. Equipment user manuals shall identify all equipment functions, preventive maintenance tasks and troubleshooting procedures. Equipment user manuals shall not be separately priced, and electronic copies shall be available to download from the contractor and/or OEM website.

11.3. SOFTWARE REFERENCE DOCUMENTATION

The contractor shall provide software reference documentation in hard copy and through online access for use by software developers creating AIT-6 applications for all software offered. The documentation shall contain specific details for the integration of AIT-6 equipment. The documentation shall be at a level of detail sufficient to fully define the operator interface and application operations. The software reference documentation shall not be separately priced.

12. ORDERING CATALOG

12.1. PURPOSE

a. The contractor shall provide an ordering catalog (OC) to assist Government users in

determining the system configuration that bests meet their operational requirements. The contractor shall provide the OC no later than 30 calendar days after contract award.

- b. The contractor shall provide a draft OC electronically to the COR, PMO, and contracting officer for review no later than 30 calendar days after contract award. The contracting officer will either approve the OC or provide comments to the contractor for incorporation into the OC. The contractor shall then have no more than 15 workdays to edit and return the OC based on the Government comments. Upon Government acceptance and approval by the contracting officer of the draft, the contractor shall post the OC on the contractor's website.
- c. The initial OC shall be approved by the contracting officer prior to posting the OC on the contractor's website. Subsequent revisions resulting from a formal contract modification shall be posted to the website no later than five workdays after issuance of the contract modification. The contractor shall update the OC for other changes (e.g., Government point of contacts) no later than five workdays after the receipt of a request from the COR. The contractor shall post contractor-related changes no later than five workdays after the change.
- d. Customer access to the contractor AIT-6 internet OC shall not require a password to obtain viewing privileges

12.2. FORMAT

The OC shall be provided in sections for ease of use. The sections shall provide a user with a complete product list, with detailed description of features and prices for ordering all hardware, software, cables, documentation, training, and technical services provided. The OC shall also include sections that provide information on warranty, preventative maintenance, ordering procedures, customer support, and CLIN list with prices, and other support services. The contractor shall provide access for Government users to the approved OC via their website.

12.3. SECTIONS

Each section of the OC shall be technically accurate and complete with descriptions of the equipment (to include pictures), software, and services. CLINs shall be used throughout the document to allow the user to properly identify the appropriate item. CLINs shall be clearly annotated on drawings, charts, product descriptions, specification sheets, etc. When a product requires the purchase of additional CLINs to make a complete and workable product, the CLINs shall be clearly identified in the description. All references to a geographic area where products may or may not be used shall be clearly annotated in the description, when applicable. The OC shall include, but not be limited to, the sections identified below, which address the minimum requirements in each section.

12.3.1. ORDERING PROCEDURES SECTION

This section shall contain procedures that provide the user with all the necessary information required to order AIT-6 products and services.

12.3.2. EQUIPMENT SECTION

The equipment section shall be organized into sub-sections based upon the major types of equipment provided, and shall include a narrative of the main features of each piece of equipment, including physical dimensions, power requirements (wattage and voltage), and heat generated by equipment. Precautions, such as the minimum distance between various devices, shall be provided. The OC shall contain cable / equipment interface diagrams and /or photos for each CLIN that depict the typical operational configuration and provide instructions for users to specify equipment destination to ensure the AIT-6 equipment is compatible with the commercial power supply and adapter plugs for the geographic area in which it shall be operated.

12.3.3. SOFTWARE SECTION

This section shall provide a full description of all software packages that includes the primary function, minimum memory requirements, program capabilities, and major features and benefits. This section shall explain, in non- technical terms, the recommended software packages for specific applications.

12.3.4. TECHNICAL ENGINEERING SERVICES SECTION

This section shall contain procedures that provide the user with all necessary information required to order TES. All TES identified in PWS section 10, "Technical Engineering Services" shall be addressed in this section.

12.3.5. TRAINING SECTION

This section shall provide course descriptions, lengths, prerequisites, course objectives, and recommended audiences for each training course.

12.3.6. WARRANTY SUPPORT SECTION

This section shall address the warranty provisions of the contract.

12.3.7. PREVENTATIVE MAINTENANCE SECTION

This section shall describe the various preventative maintenance procedures.

12.3.8. CLIN LIST AND PRICES SECTION

This section shall provide the CLIN List and Prices.

13. CONTRACT CHANGE PROPOSALS (CCP)

13.1. CCP CONTENTS

The offer of product substitution or addition shall include information sufficient to determine that the proposal satisfies the terms and conditions of the contract. The proposal shall, at a minimum, include the following information:

- a. A comparative description, in detail, of the difference between the existing contract item and the proposed product substitution, and a specific analysis of the comparative advantages and disadvantages of each. For additions, the proposal shall provide a complete description of the new item and a correlative analysis of how the new item will benefit the Government. The comparative description should be laid out in a "From this" - "To this" format, with all changes highlighted in yellow.
- b. Specific items contained in the contract that are proposed to be changed if the proposal is accepted (e.g., if new equipment is offered to replace currently installed, will the old be exchanged for the new, and on what basis). List all sections of the contract affected by the proposed contract change, including changes to Section B, Supplies or Services and Prices/Costs. Outline contract changes in a "From this" - "To this" format, with all changes highlighted in yellow.
- c. A statement as to how the changes will affect performance, costs, etc., if accepted, and an item-by item summary of any "street pricing" of the items, including a reference to the source of the "street price" and GSA Schedule pricing, if any, to include GSA schedule number. The contractor may be required to provide a minimum of three competitive quotes.
- d. If applicable, an evaluation of the effects the change would have on life cycle costs, such as GFP, maintenance, personnel, site modification, and energy.
- e. An analysis of a timeframe in which the change should be instituted so as to obtain maximum benefit to the Government for the remainder of the contract.

It is the contractor's responsibility to manage and propose substitutions and additions in a timely manner, allowing sufficient time for government approval (review times will vary depending upon the complexity and newness of the item), and to provide, without a lapse in availability, Government approved products throughout the entire ordering period of the contract. The contractor shall not be reimbursed for any cost associated with the preparation of a proposal for the technology changes described above. The decision as to the acceptability of such a proposal shall be at the sole and exclusive discretion of the contracting officer and is not subject to the Disputes clause of this contract.

13.2. CCP NUMBERING CONVENTION

The Government has established a six-digit numbering convention for AIT-6 CCPs (example: Rxx001). The numbering convention is broken down as follows:

A = The first character on all CCPs will begin with "A" to indicate the CCP is against the AIT-6 contract.

XX = The second and third characters are alpha indicators representing the first two letters of the contractor. NOTE: For Government-initiated changes that would result in a CCP, the alpha indicators will be replaced by the letters "PM" and will be included in any request for proposal.

000 = The last three characters are numeric indicators that represent the sequential number assigned to the CCP. NOTE: Contractor shall apply sequential numbers Axx001, Axx002, etc., to contractor-initiated CCPs without regard to the sequential numbering of any Government initiated CCPs.

13.3. CCP RESPONSE TIME

If the Government issues an RFP for a technology change, or any other type of change to the contract, the contractor shall submit a CCP within 20 calendar days of RFP date, unless the RFP specifies a later RFP due date. Regardless of which party initiates a proposed contract change, should the Government request supplemental information to analyze the contractor's proposal, the contractor shall provide the additional information within 7 calendar days of the request, unless the Government's request specifies a later due date.

14. CERTIFICATIONS

14.1. ENERGY STAR

Equipment meeting the Energy Star specifications shall be certified by the contractor and properly labeled as meeting the Environmental Protection Agency requirements.

14.2. NONINCENDIVE CERTIFICATION

The contractor shall certify that equipment identified as NI, as well as its sub-components, shall be designed, manufactured and tested to NI standards, as specified in the National Electrical Code.

14.3. RUGGED ENVIRONMENT CERTIFICATION

Transit cases shall be manufactured and tested in accordance with Air Transport Association (ATA) Spec 300, "Specification for Packaging of Airline Supplies" - 1960 (R2014.1 for Category 1, or have previously been accepted by DoD for use in a rugged

environment.

14.4. PRODUCT SAFETY CERTIFICATION

Equipment shall be certified by an authorized, Nationally Recognized Testing Laboratory to UL 60950.

14.5. TRADE AGREEMENTS ACT

The contractor shall certify that applicable equipment conforms to the Trade Agreements Act.

14.6. ELECTROMAGNETIC COMPATIBILITY (EMC) COMPLIANCE

All applicable equipment shall meet, as appropriate, the requirements of National Telecommunications and Information Administration (NTIA) Manual Annex K and 47 CFR Part 15. In order to certify the use of commercial AIT-6 equipment in these environments, the Government may subject representative categories of equipment to radiated emission and susceptibility tests (See MIL-STD 461, latest revision). The applicable equipment shall remain unchanged after installation of contractor-provided RF devices. All applicable equipment for CONUS shall meet the International Special Committee on Radio Interference (CISPR) 22, Class A (International) standards for Radio Frequency Interference/Electromagnetic Interference, and be Underwriters Laboratory (or equivalent) and European Community certified. The contractor shall test and certify equipment per the guidance provided in the U.S. Department of Commerce NTIA, FCC, and International Standards.

14.7. SELF-CERTIFICATION

The contractor's self-certification of standards (e.g., IEEE 802.11) shall be based upon the results of testing or inspection the contractor undertakes or authorizes others to undertake on the contractor's behalf. The contractor's criteria and procedures to declare, on its own authority, that a product or service is in conformity with specified standards or specifications shall be performed in accordance with ISO/IEC 17050-1:2004, Conformity Assessment — Supplier's Declaration of Conformity — Part 1: General Requirements, and ISO/IEC 17050-2:2004, Conformity Assessment — Supplier's Declaration of Conformity — Part 2: Supporting Documentation.

14.8. DEPARTMENT OF DEFENSE UNIFIED CAPABILITIES APPROVED PRODUCTS LIST (DoD UC APL)

- a. The DoD UC APL process is developed in accordance with DoDI 8100.04, DoD Unified Capabilities (UC).
- b. The DoD UC APL Process is managed by DISA – Network Services (NS) Unified Capabilities Certification Office (UCCO) under the Defense Information Systems

Network (DISN) Program Office (NSP).

- c. The DoD UC APL is the single approving authority for all Military Departments (MILDEPs) and DoD agencies in the acquisition of communications equipment that is to be connected to the DISN, as defined by the Unified Capabilities Requirements (UCR).
- d. In accordance with Chairman of the Joint Chiefs of Staff Instruction 6211.02D, Defense Information Systems Network(DISN) Responsibilities, 24 January 2012, ENCLOSURE B. POLICY, Paragraph 1.c. (4): "CC/S/As shall procure or operate UC products listed on the DoD UC Approved Products List (APL), as applicable, unless granted an exception to policy IAW DoDI 8100.04."

15. BACKGROUND INVESTIGATIONS FOR CONTRACTOR PERSONNEL

15.1. BACKGROUND

When applicable, contractor personnel performing services under this contract shall be required to undergo a background investigation. Task orders may require contractor personnel to have access to unclassified sensitive information in accordance with DoDI 8500.01, AR 25-2, and the Privacy Act of 1974 (Public Law 93-579). At a minimum, some CONUS and OCONUS task orders will require the contractor personnel accessing this information to have a favorable National Agency Check (NAC) and/or a DoD secret clearance (interim secret clearances are acceptable). Investigative packages may contain the following forms:

- a. SF-85, Questionnaire for Non-Sensitive Positions;
- b. SF-85P, Questionnaire for Public Trust Positions;
- c. SF-86, Questionnaire for National Security Positions;
- d. Credit Report Release Form; and
- e. FD-258, Fingerprint Card.

15.2. NAC FILE RECORDS

The contractor shall take the necessary steps to ensure its ability to timely respond to task orders stating a requirement for a NAC or DoD secret clearance. When a task order specifically addresses a requirement for a NAC, the contractor personnel assigned to this effort shall complete a Standard Form 85 or 85P. When a task order specifically addresses a requirement for a DoD secret clearance, the contractor personnel assigned to this effort shall complete a Standard Form 86.

The completed paperwork shall be submitted to the contractor security manager for review of completeness. The contractor security manager shall obtain a DoD secret clearance from the Defense Security Service (DSS) or from the appropriate Government agency. The contractor shall maintain a record of all requested NAC and DoD secret clearance approvals and disapprovals.

16. CONTRACTOR PERFORMANCE INFORMATION

Contractor(s) performance on the delivery orders and task orders under this contract are subject to an assessment in accordance with FAR 42.15 and AFARS 5142.1503-90. The DoD Contractors Performance Assessment Reporting System (CPARS) will be used to maintain the performance report(s) generated on this contract.

17. ORGANIZATION CONFLICT OF INTEREST (OCI)

17.1. NON-DISCLOSURE AGREEMENT (NDA)

Without exception, all contractors are required to report potential OCI issues to the contracting officer immediately, regardless of the stage of the acquisition/contract/order (e.g. pre-solicitation, pre-award, post award, etc.) and regardless of what provisions and clauses are provided for in the contract/order. The cognizant contracting officer will provide the specific certificate of non-disclosure and/or requirement for a mitigation plan when applicable.

The contractor agrees that, if it gains access to proprietary data of other companies, it will protect such data, and it will not use such proprietary data in supplying systems or components in future competitive procurements (FAR 9.505-4). In addition, the contractor agrees to protect the proprietary data and rights of other organizations disclosed to the contractor during performance of this contract with the same caution that a reasonably prudent contractor would use to safeguard highly valuable property. The contractor also agrees that, if it gains access to the proprietary information of other companies, it will enter into an agreement with the other companies to protect their information from unauthorized use or disclosure for as long as it remains proprietary and refrain from using the information for any purpose other than that for which it was furnished.

18. ANTI-TERRORISM/OPERATIONS SECURITY REQUIREMENTS (AT/OPSEC)

Each task or delivery order on this contract may have different requirements, resulting in different considerations for AT/OPSEC. The AT/OPSEC coversheet may be included with each task or delivery order, except for supply contracts under the Simplified Acquisition Threshold level (\$250,000 for non-contingency), field ordering officer actions, and GPC purchases. All items listed below are included in the basic requirements of the PWS, except for paragraph 18.6, "For Contracts that Require an OPSEC Standing Operating Procedure/Plan."

18.1. AT Level I Training

All contractor employees, to include subcontractor employees, requiring access to Army installations, facilities, and controlled access areas shall complete AT Level I awareness training within 14 calendar days after contract start date, or the effective date of incorporation of this requirement into the contract, whichever is applicable. The

contractor shall submit certificates of completion for each affected contractor employee and subcontractor employee to the COR (or to the contracting officer, if a COR is not assigned) within 14 calendar days after completion of the training by all employees and subcontractor personnel. AT level I awareness training is available at the following website: <http://jko.jten.mil>

18.2. Access and General Protection/Security Policy and Procedures

Contractor and all associated subcontractor employees shall comply with applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by Government representative). The contractor shall provide all information required for background checks to meet installation access requirements to be accomplished by the installation Provost Marshal Office, Director of Emergency Services or Security Office. Contractor and all associated subcontractor employees must comply with all personal identity verification requirements, as directed by DoD; Headquarters, Department of Army (HQDA); and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in contractor security matters or processes.

18.2.1. For Contractors requiring Common Access Card (CAC)

Before CAC issuance, the contractor employee requires, at a minimum, a favorably adjudicated National Agency Check with Inquiries (NACI) or an equivalent or higher investigation in accordance with Army Directive 2014-05. The contractor employee will be issued a CAC only if the employee's duties involve one of the following: (1) Both physical access to a DoD facility and access, via logon, to DoD networks on-site or remotely; (2) Remote access, via logon, to a DoD network using DoD-approved remote access procedures; or (3) Physical access to multiple DoD facilities or multiple non-DoD federally controlled facilities on behalf of the DoD on a recurring basis for a period of six months or more. At the discretion of the sponsoring activity, an initial CAC may be issued based on a favorable review of the FBI fingerprint check and a successfully scheduled NACI at the Office of Personnel Management.

18.2.2. For Contractors who do not require CAC, but require access to a DoD facility or installation

Contractor and all associated subcontractor employees shall comply with adjudication standards and procedures using the National Crime Information Center Interstate Identification Index (NCIC-III) and Terrorist Screening Database (TSDB) (Army Directive 2014-05/AR 190-13); applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by Government representative) and, at OCONUS locations, applicable status of forces agreements and other theater regulations.

18.3. AT Awareness Training for Contractor Personnel Traveling Overseas

US-based Contractor employees and associated Subcontractor employees traveling overseas shall make available and receive Government-provided, Area of Responsibility (AOR) specific AT awareness training, as directed by AR 525-13. Specific AOR training content is directed by the combatant commander, with the unit antiterrorism officer (ATO) being the local point of contact.

18.4. iWATCH Training

The contractor and all associated subcontractors shall brief all employees on the local iWATCH program based upon training standards provided by the requiring activity ATO. This locally developed training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the COR. This training shall be completed within 30 calendar days of contract award and within 30 calendar days of new employees commencing performance, with the results reported to the COR NLT 45 calendar days after contract award or new employee performance commencement.

18.5. Army Training Certification Tracking System (ATCTS) Registration for Contractor Employees Who Require Access to Government Information Systems

All contractor employees with access to a Government information system (IS) must be registered in the ATCTS (Army Training Certification Tracking System) at commencement of services, and must successfully complete the DoD Information Assurance Awareness training prior to accessing the IS, and then annually thereafter.

18.6. For Contracts that Require an OPSEC Standing Operating Procedure/Plan

The contractor shall develop an OPSEC Standing Operating Procedure (SOP)/Plan within the timeframe specified in the individual order, to be reviewed and approved by the responsible Government OPSEC officer, per AR 530-1, Operations Security. This SOP/Plan will include the Government's critical information, why it needs to be protected, where it is located, who is responsible for it, and how to protect it. In addition, the contractor shall identify an individual who will be an OPSEC Coordinator. The contractor will ensure this individual becomes OPSEC Level II certified per AR 530-1.

18.7. For Contracts that Require OPSEC Training Per AR 530-1, Operations Security

New contractor employees must complete Level I OPSEC training within 30 calendar days of their reporting for duty. All contractor employees must complete annual OPSEC awareness training.

18.8. For Cyber Awareness Challenge Training (previously known as Information Assurance (IA)/Information Technology (IT) Training)

All contractor employees and associated subcontractor employees must complete the DoD cyber awareness training before issuance of network access and annually thereafter. All contractor employees working IA/IT functions must comply with DoD and Army training requirements in DoDD 8140.01, DoD 8570.01-M and AR 25-2 within six months of employment.

18.9. For Information Assurance (IA)/Information Technology (IT) Certification

Per DoD 8570.01-M, DFARS 252.239.7001 and AR 25-2, the contractor employees supporting IA/IT functions shall be appropriately certified upon contract award. The baseline certification, as stipulated in DoD 8570.01-M, must be completed upon contract award.

18.10. For Contractors Authorized to Accompany the Force. DFARS Clause 252.225- 7040, Contractor Personnel Authorized to Accompany U.S. Armed Forces Deployed Outside the United States

The clause shall be used in solicitations and contracts that authorize contractor personnel to accompany US Armed Forces deployed outside the US in contingency operations; humanitarian or peacekeeping operations; or other military operations or exercises, when designated by the combatant commander. The clause discusses the following AT/OPSEC related topics: required compliance with laws and regulations, pre-deployment requirements, required training (per combatant command guidance), and personnel data required.

18.11. For Contracts Requiring Performance or Delivery in a Foreign Country, DFARS Clause 252.225-7043, Antiterrorism/Force Protection for Defense Contractors Outside the US

The clause shall be used in solicitations and contracts that require performance or delivery in a foreign country. This clause applies to both contingencies and non-contingency support. The key AT requirement is for non-local national Contractor personnel to comply with theater clearance requirements and allows the combatant commander to exercise oversight to ensure the Contractor's compliance with combatant commander and subordinate task force commander policies and directives.

18.12. For Contracts That Require Handling or Access to Classified Information. Contractor shall comply with FAR 52.204-2, Security Requirements

This clause involves access to information classified "Confidential," "Secret," or "Top Secret" and requires contractors to comply with— The Security Agreement (DD Form 441), including the National Industrial Security Program Operating Manual (DoD

5220.22-M); any revisions to DOD 5220.22-M, notice of which has been furnished to the contractor.

18.13. Threat Awareness Reporting Program

For all contractors with security clearances. Per AR 381-12, Threat Awareness and Reporting Program (TARP), Contractor employees must receive annual TARP training by a CI agent or other trainer, as specified in paragraph 2-4 of the regulation.

19. Attachment 1 – Monthly Contract Status Report

The Monthly Contract Status Report provides contract sales totals by CLIN, cost, and quantity of product as well as total amounts of Technical Engineering Service (TES) orders placed for the entirety of the contract. The report is to present the month, year, and contract-to-date amounts. Totals are to be broken out by military branch of service or non-DoD agency

The contractor may provide each of the summary totals (current month, year-to-date (contract year), and contract-to-date) on separate worksheets of the same spreadsheet file or collectively on one sheet.

			Current Month		Year-to-Date Total		Contract to Date Total	
CLIN	Description	Service	Quantity	Total Amt	Quantity	Total Amt	Quantity	Total Amt
0001AA	HHT-A	Army	5	\$5	10	\$10	30	\$30
		AF	1	\$1	3	\$3	30	\$30
		Navy	10	\$10	30	\$30	50	\$50
		Marine	0	\$0	5	\$5	10	\$10
		Coast Guard	0	\$0	5	\$5	10	\$10
		DLA/Other	4	\$4	5	\$5	10	\$10
		TRANSCOM	2	\$10	3	\$15	10	\$10
TOTALS			22	\$30	61	\$73	150	150
0005AA	Imager for PC Input	Army	10	\$50	20	\$100	50	\$250
		AF	0	\$0	3	\$15	10	\$50
		Navy	5	\$25	10	\$50	20	\$100
		Marine	0	\$0	0	\$0	2	\$10
		Coast Guard	0	\$0	0	\$0	0	\$0
		DLA/Other	0	\$0	5	\$25	10	\$50
		TRANSCOM	0	\$0	5	\$25	10	\$50
TOTALS			15	\$75	43	\$215	102	\$510

Contract Totals	Month-Year [Month / Year]		Year-to-Date [YEAR]		Contract-to-Date	
	Product	Services	Product	Services	Product	Services
Army	\$100	\$500	\$21,000	\$103,000	\$25,090	\$130,000
AF	\$0	\$0	\$3,000	\$0	\$3,000	\$0
Navy	\$6,000	\$0	\$6,000	\$0	\$6,000	\$0
Marine	\$0	\$0	\$12,000	\$85,000	\$12,000	\$85,000
Coast Guard	\$0	\$0	\$0	\$0	\$0	\$0
DLA/Other	\$0	\$0	\$5,200	\$0	\$0	\$0
SUB TOTALS	\$6,100	\$500	\$47,200	\$188,000	\$46,090	\$215,000
TOTAL	\$6,600		\$235,200		\$261,090	

Note: The CLINs, descriptions, quantity numbers, and total amounts shown above are for illustrative purposes only.

20. Attachment 2 – Monthly Equipment and Service Report (MESR)

AIT-6 Monthly Equipment and Service Report	
This attachment provides the minimum data points associated with the reporting requirements called out in section 7.5 of the AIT-6 PWS. Data points shall be included with monthly reports to the PMO. Contractors may add additional data points but shall report information in the order shown – unless otherwise agreed to by the Government COR.	
1	RA #
2	Created Date
3	Current Status
4	Agency
5	Name
6	Contact Last Name
7	Contact First Name
8	Contact Phone
9	Repair Type
10	Model
11	Serial # Received
12	Problem Description
13	Problem Resolution
14	Received Date
15	Serial # Shipped
16	Actual Ship Date
17	Abuse
18	COMPANY NAME
19	Time/Date of Call
20	Help Desk Reference #
21	Serial Number (SN)

21. Attachment 3 – Monthly Asset Management Report

AIT-6 Asset Management Report	
<p>This attachment provides the minimum data points associated with the reporting requirements called out in section 7.2.3 of the AIT-6 PWS. Data points shall be included with monthly reports to the PL AMIS. Contractors may add additional data points but shall report information in the order shown – unless otherwise agreed to by the Government COR.</p>	
1	Contract
2	Delivery Order
3	Order Date
4	Due Date
5	Completed Y/N
6	Customer Name
7	Agency
8	Order Type
9	CLIN/SLIN
10	Description
11	Destination
12	Value
13	COMPANY NAME
14	Model
15	Serial #
16	Actual Ship Date
17	Warranty Start Date
18	Warranty End Date
19	UID