

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE U	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 08	3. EFFECTIVE DATE 01-Nov-2010	4. REQUISITION/PURCHASE REQ. NO. N/A	5. PROJECT NO. (If applicable) N/A	
6. ISSUED BY NAVFAC ATLANTIC 6506 Hampton Blvd. Norfolk VA 23508-1278 rochelle.lee@navy.mil 757-322-4182	CODE N62470	7. ADMINISTERED BY (If other than Item 6) DCMA Manassas 10500 BATTLEVIEW PARKWAY, SUITE 200 MANASSAS VA 20109-2342	CODE	S2404A

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Systems Research and Applications Corporation 4300 Fair Lakes Court Fairfax VA 22033-0000		9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO. N00178-05-D-4593-JU01
		10B. DATED (SEE ITEM 13) 12-Sep-2007
CAGE CODE 6R517	FACILITY CODE 097779698	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning one (1) copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.


12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 43.103(a)(3) Type of contract modifications
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE PAGE 2

15A. NAME AND TITLE OF SIGNER (Type or print) 		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Rochelle M Lee, Contracting Officer	
15B. CONTRACTOR/OFFEROR /s/Julie D. Lorfano (Signature of person authorized to sign)	15C. DATE SIGNED 01-Nov-2010	16B. UNITED STATES OF AMERICA BY /s/Rochelle M Lee (Signature of Contracting Officer)	16C. DATE SIGNED 01-Nov-2010

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GENERAL INFORMATION

The purpose of this modification is to extend the period of performance for option period 2 to December 31, 2010.

Acceptance of this modification by the contractor constitutes an accord and satisfaction and represents payment in full for both time and money and for any and all costs, impact effect, and for delays and disruptions arising out of, or incidental to, the work as herein revised.

A conformed copy of this Task Order is attached to this modification for informational purposes only.

All else remains the same.

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SECTION B SUPPLIES OR SERVICES AND PRICES

CLIN - SUPPLIES OR SERVICES

For FFP Items:

Item	Supplies/Services Qty	Unit	Unit Price	Total Price
2001	Technical services for development of Total Asset Visibility solutions. (OTHER)	1.0 Lot		
2002	Technical services for development of Total Asset Visibility solutions. (OTHER)	1.0 Lot		
2003	Technical services for development of Total Asset Visibility solutions. (OTHER)	1.0 Lot		
200301	Task 13, 15, and 17 funding (OTHER)			
200302	Task 13, 15, and 17 funding (OTHER)			
2004	Option Year 3 - Technical services for development of Total Asset Visibility solutions. (OTHER)	1.0 Lot		
2005	Technical services for development of Total Asset Visibility solutions. (OTHER) Option	1.0 Lot		

NOTICE: The government reserves the right to incrementally fund this effort.

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SECTION C DESCRIPTIONS AND SPECIFICATIONS

Assessment and Development Support for Total Asset Visibility

SECTION C SUMMARY

Assessment and Development Support for Total Asset Visibility (TAV)/In Transit Visibility (ITV) Automatic Identification Technology (AIT) Solutions including Tasks:

Methodology and Approach; SMART Container Prototype Development; Advanced Packaging Solutions Prototype Development

SECTION C:

1.0 INTRODUCTION.

TAV/ITV AIT enablement of the Naval Expeditionary Combat Enterprise (NECE) table of allowance (TOA) lifecycle is a key enabling technology for the warfighter. The NAVFAC Expeditionary Program Office (NEPO) requirement is to incorporate AIT technology enablers throughout the deployment lifecycle: from the warehouse, to the ship deck, through all theater distribution points, to reconstitution, back to the ship deck and back to the warehouse. This requirement encompasses personnel resources, business processes and mission, as well as technology. The overarching goal is to implement advanced AIT in general and radio frequency identification (RFID) technology in particular across the various NAVFAC, NECE, and other required DoD and DON functional areas to support asset visibility: in-transit, in-storage, and in-action; as well as inventory, maintenance, and operations management. This effort will apply structured processes to investigate the full spectrum of AIT and associated wireless and satellite technologies. These include Active and Passive RFID (aRFID and pRFID, respectively) technologies and solutions mapped to NAVFAC mission components in an effort to validate the business case focused on adoption and implementation of these capabilities. See herein.

2.0 SCOPE:

2.1 Methodology and Approach Task Order

The contractor shall provide a multi-phase/multi-stage approach to determine the extensibility of a given suite of AIT capabilities relative to a given suite of TAV and ITV requirements. Each linked suite of capabilities and requirements, referred to as a phase – or spiral shall go through each stage until it is eliminated or adopted in a full implementation. Each spiral shall permit incremental implementation of solution sets that provide timely and cost effective capabilities within an intended span of time. This follows industry convention of providing value added solutions, with an expected lifespan value, while continuing improvement and development to enhance, extend, and/or replace these solutions in the next generation or version. As solution sets are identified and version capabilities (and limitations) are approved, they shall go under configuration management control. Each version shall under go development and implementation in stages including: assessment analysis, feasibility analysis, prototype development, pilot implementation and full implementation. A version may be terminated or combined with another version at any stage.

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Overall Contractor-provided methodology and approach services shall include but not be limited to:

1. Management and Planning (MP) services such as: project management; resource scheduling and planning, metrics development, stakeholder liaison, executive level presentation development and support

2. Assessment Analysis and Management (AAM) services such as: requirements analysis, systems analysis, business process analysis; structured protocol based analysis, migration/transition planning; documentation analysis, configuration management services

3. Feasibility Analysis and Management (FAM) services such as: requirements specification preparation, systems integration analysis, structured engineering and scientific analysis, enterprise system analysis; detailed design specification preparation; functionality determination, configuration management, independent verification and validation of hardware and software capabilities

4. Prototype Support (PS) services such as: storyboard development and presentation, Spiral solution set prototype engineering, development and testing support

5. Pilot Implementation (PI) services such as: Spiral solution set pilot development and production support, data management, system migration management, implementation coordination and support

6. Full Implementation (FI) support services such as: Spiral solution set operations and maintenance support

2.2 Secure Materiel Asset Recording and Tracking (SMART) Container Prototype Development Task Order

The contractor shall apply the NEPO approved multi-phase/multi-stage methodology and approach to determine available and emerging Secure Materiel Asset Recording and Tracking (SMART) Container technologies and NECE business process requirements that can best be served by them. Each linked suite of capabilities and materiel management business process requirements shall go through appropriate iterations of the assessment, feasibility, and prototype stages until it is eliminated or adopted as a candidate for further implementation. All SMART Container solution sets identified and approved shall go under configuration management control. A version may be terminated or combined with another version at any stage. Direction and versions shall be approved and controlled by the task order manager (TOM), also referred to as the project manager (PM), through the management and planning process.

Overall Contractor-provided SMART Container Prototype services shall include but not be limited to:

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1. Management and Planning (MP) services such as: project management; resource scheduling and planning, metrics development, stakeholder liaison, executive level presentation development and support

2. Assessment Analysis and Management (AAM) services such as: requirements analysis, systems analysis, business process analysis; structured protocol based analysis, migration/transition planning; documentation analysis, configuration management services

3. Feasibility Analysis and Management (FAM) services such as: requirements specification preparation, systems integration analysis, structured engineering and scientific analysis, enterprise system analysis; detailed design specification preparation; functionality determination, configuration management, independent verification and validation of hardware and software capabilities

4. Prototype Support (PS) services such as: storyboard development and presentation, Spiral solution set prototype engineering, development and testing support

2.3 Advanced Packaging Solutions Prototype Development Task Order

The contractor shall be responsible for executing the methodology and approach approved by the NAVFAC Expeditionary Program Office (NEPO) to provide Advanced Packaging material solutions that best meet functional requirements. Packaging materials have a wide range of physical characteristics that affect the performance of radio frequency identification (RFID) and other automatic identification technologies (AIT). Packaging materials represent a wide range of uses including but not limited to: external ISO type shipping containers of all types, such as quad and tri con; internal modular containers and specially outfitted containers of all types, such as Joint Modular Intermodal Containers (JMICS) and those with internal drawers/compartments/racks; kitting of all types, such as tool boxes, crates, special equipment cases, fluid containers; as well materials that aid in the marking, separation, vibration dampening, and tie down. Contractor recommendations shall enable the Government to select Advance Packaging Material solution candidates and to support the design, development, and integration of all necessary hardware, software, and documentation in order to integrate with emerging SMART Container solution sets. All packaging material solution sets identified and approved shall go under configuration management control. The overarching goal is to implement appropriate AIT technology across the various NAVFAC, NECE, and other required DOD and DON functional areas to support asset visibility: in-storage, and in-action; as well as inventory, maintenance, and operations management.

Overall Contractor-provided Advanced Packaging Solution Prototype services shall include but not be limited to:

1. Management and Planning (MP) services such as: project management; resource scheduling and planning, metrics development, stakeholder liaison, executive level presentation development and support

2. Assessment Analysis and Management (AAM) services such as: requirements analysis, systems analysis, business process analysis; structured protocol based analysis, migration/transition planning; documentation analysis, configuration management services

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3. Feasibility Analysis and Management (FAM) services such as: requirements specification preparation, systems integration analysis, structured engineering and scientific analysis, enterprise system analysis; detailed design specification preparation; functionality determination, configuration management, independent verification and validation of hardware and software capabilities
4. Prototype Support (PS) services such as: storyboard development and presentation, Spiral solution set prototype engineering, development and testing support

3.0 REQUIREMENTS The contractor shall deliver any combination of the services listed below as required by the particular task order. Each task order (TO) shall be uniquely identified and accompanied by a government estimate reflecting work hours per skill level for each line item, as well as travel, and other direct costs which the contracting officer will use to negotiate each task order under this contract

3.1 The contractor shall deliver an approach to Management and Planning (MP) services as requested by task order. Management and Planning (MP) approach shall be delivered through line items such as:

3.1.1 MP1 Project Management Support The Contractor shall develop an approach to:

1. Assemble and/or create project planning documents as required.
2. Develop a detailed master project plan (MPP) that integrates all contractor and government stakeholder requirements. The MPP shall include a description of work to be performed for each work element; a detailed estimated schedule of meetings and interviews with stakeholder personnel, deliverables, critical milestones, status reports and estimated completion. The plan shall also include any additional planning, management, and coordination necessary to properly control and coordinate each uniquely defined spiral and defines the technical and managerial processes necessary to satisfy project requirements. These will include but not be limited to work breakdown structure (WBS), organization breakdown structure (OBS), issues, risks, assumptions, and constraints. Updates to the plan documents will be part of the Management Planning Workbook.
3. Coordinate with stakeholder project management team (PMT) members to address POA&M milestones, events, and actions that affect their respective organizations. In addition, assist stakeholder organizations to perform required efforts.
4. Create and manage After Action Report (AAR) formats and procedures as well as other documentation as necessary to facilitate accomplishment of all activity tracks. The AARs will identify subject (what), responsible party (who), date due (when), and any difficult or controversial issues or problems and resolutions.

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Provide independent assessments of progress to the PM

5. Manage the continuous update of a Management Planning Workbook (MPW) and MPW Executive Summary documents, conduct monthly iterative reviews with the PM and, at a minimum, publish bimonthly updates of the complete physical documents. The MPW and its Executive Summary shall contain all monthly documentation deliverables from all line items; except the monthly Invoice status report
6. Provide executive information and project management materials and collaboration tools via a PM web site;
7. Identify, configure, and provide general project management tools including but not limited to: organization knowledge planning, project management, and stakeholder configuration management tools that facilitate the tracking and management of all line item related data and information;
8. Provide Subject Matter Experts for business process and/or technical expertise support as required.

MP1 Deliverables shall include but not be limited to:

MPD01 – Management Planning Workbook (MPW) documentation outline and template

MPD02 – MPW executive summary documentation outline and template

MPD03 – Project management web site plan

MPD04 – Approach to organization knowledge planning

MPD05 – Plans and provisions for SME Support, as required

3.1.2 MP2 Configuration Management Process Support. The contractor shall develop an approach to:

1. Support and facilitate the establishment and operation of an interim configuration management processes.
2. Support the establishment, management and maturation of an applicable CM process. This shall include as a minimum: identifying and defining the specific configuration items to be managed within each Spiral baseline; controlling the release and change of these items throughout the elements lifecycle, and recording and reporting the status of configuration items and change requests. This includes but not limited to the use of the following conceptual elements: Document Change Requests (DCR), Problem Reports (PR), Change Requests (CR), Discrepancy Reports (DR), Modification Reports (MR)

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3. Provide management support and leadership in the implementation of a Configuration Management (CM) process supporting the multi-phase/multi-stage Spiral approach. Support the integration of this process with existing NAVFAC resource allocation, lifecycle documentation management approval, and execution management processes.

4. Compile and document spiral configuration end items and manage an organization knowledge planning tool

5. Assist and support the requirements analysis and specification development for the acquisition/ development of a stakeholder level software configuration management tool. This support shall include gathering requirements, fact finding and analysis of potential solutions, development of alternatives, tailoring these to fit stakeholder

MP2 Deliverables shall include but not be limited to

MPD06 – Configuration Management (CM) methodology and monthly update. This shall include as a minimum: configuration end item identification and management schemas, stakeholder roles and responsibilities,

3.1.3 MP3 Stakeholder Liaison and Systems Analysis and Engineering Support The contractor shall develop an approach to:

1. Coordinate and establish a working relationship between the PM and the stakeholder organizations characterized by mutual understanding of organization objectives, bi-lateral communications and trust.

2. Provide suggestions and recommendations to stakeholder managers and the PM concerning business process re-engineering, alternative workflows, organization restructuring, software tailoring, modifications and additions that will assist NAVFACHQ ERL, NECE, NFELC, NBVC, and NCBC Gulfport in meeting ERL program business requirements.

3. Support, facilitate, and guide system analysis work groups and tiger teams as required to assist stakeholders in clarifying business processes and workflows

4. Develop executive level information and presentation materials as requested

5. Conduct executive level presentations promoting NAVFAC and NECE TAV and ITV AIT program objectives and progress

6. Provide documentation for liaison/system analysis activities where decisions or follow-up actions are required in AAR format with relevant attachments.

MP3 Deliverables shall include but not be limited to:

MPD07 – Documented approach and delivery methodology for stakeholder liaison, systems analysis and engineering support activities including but not limited to: business process re-engineering recommendations, tiger team facilitation, and executive presentation materials

3.1.4 MP4 Training Support The contractor shall develop and approach to:

1. Identify stakeholder training requirements and manage in the organization knowledge planning tool.

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- Requirements shall be organized in a work breakdown structure (WBS) identifying the general to specific training needs of each organization element,
2. Develop draft training requirements by gathering organization requirements from stakeholder representatives and tailoring these to fit implementation schedule
 3. Present draft training requirements data in final format to the PM for review and approval
 4. Support the presentation of training requirements to senior stakeholder leadership for implementation
 5. Develop training materials and scenarios for each Spiral “use case”
 6. Manage and support the development of training schedules for all stakeholder personnel
 7. Provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to this activity track task.
 8. Provide on-site training support during implementations

MP4 Deliverables shall include but not be limited to

MPD08 – Documented approach and methodology for the assessment, development, and delivery of training materials and training for each spiral

3.1.5 MP5 Meeting Support. The contractor shall conduct and participate in conferences, reviews and meetings to be held at either Contractor or Government facilities. The Contractor shall make facilities available for Government-only meetings during all conferences, meetings and reviews held at Contractor facilities.

The PM will conduct iterative reviews with the PMT government and contractor members. The contractor shall be guided by PM decisions for enhancing, developing, and supporting business process and system functions, design objectives, business processes, and interfaces.

The contractor team will attend (in person, by VTC or by conference phone as directed by the PM) the following meetings, at a minimum; the meetings will be called by the PM. Meetings will adhere to a pre-defined agenda to minimize the time required and to insure each meeting targets / addresses key project issues:

1. Project / Task Kick-off Meeting
2. Weekly Project Status Meetings (on-site, by Teleconference, by VTC)
3. Monthly Status Briefing
4. Bi-Monthly Documentation reviews
5. User Requirements Clarification Meetings
6. Deliverable Completion/Signoff
7. Project Completion/Signoff

In addition, the contractor shall attend, if requested, the following meetings or significant portions thereof:

1. PMT Iterative Reviews. As part of this review, the contractor shall provide a Project Management Plan (in Microsoft Project file format) describing the time and estimated work associated with all line items in a particular task order. The Project Management Plan will be maintained and made available to the government as updates along with weekly project status meetings.
2. Meetings/interviews with government personnel. The contractor shall contact, interview, or meet with government personnel as necessary to accomplish all line items. The government PMT members will serve as the primary points of contact for any contact with government personnel. The PM will direct the contractor to

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appropriate individuals or organizations as necessary. The contractor shall provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to an activity track task. The AARs will identify subject (what), responsible party (who), date due (when), and any difficult or controversial issues or problems and resolutions. Suggestions and recommendations will be presented in draft and final reports in Microsoft PowerPoint format. The contractor shall present the prior weeks AARs and explain weekly project status in Microsoft PowerPoint file/presentation briefing format and allow for questions and answers.

3.1.6 MP6 Monthly Invoice Status Reports. The Contractor shall provide a Monthly Invoice Status Report as set forth below. Report shall include technical accomplishments and expenditures (labor hours, travel, and material) and a list of personnel working the task order by paragraph. Monthly Invoice Status Reports are due to the Task Order Manager (TOM) by the 10th of each month.

3.2 The contractor shall deliver Assessment Analysis and Management (AAM) services as requested by task order.

3.2.1 AAM1 Assessment methodology development and support The contractor shall:

Develop and apply a methodology to assess and compare business process requirements and automatic identification technologies (AIT) technology capabilities to support potential TAV and ITV solutions. This methodology must support establishment and management of a baseline for each spiral of value added solution sets. As these solution sets are identified and version capabilities (and limitations) identified and approved, they shall go under configuration management control. Each spiral solution set shall have an expected lifespan identified, with expected availability and termination values. The methodology will support planning for continuing improvement and development to enhance, extend, and/or replace these solutions in future generations or versions.

AIT technologies to be assessed include but are not limited to: passive low frequency (LF) RFID, passive high frequency (HF) RFID, passive ultra-high frequency (UHF) RFID, Ultra-wide band (UWB) RFID, Semi-active RFID technologies, Surface acoustic wave (SAW), Active RFID technologies, bar code technologies, item unique identification (IUID) marking technologies, contact memory technologies, and GSM and satellite communications.

AMM1 Deliverables shall include but not be limited to:

AAMD01 – Assessment Methodology documentation

AAMD02 – Sample assessment of identified Spirals and their baselines

3.2.2 AAM2 Requirements development support The contractor shall develop an approach to :

1. Provide requirements analysis; business process analysis; software requirements specification preparation; enterprise system analysis as need to support the requirements gathering process
2. Determine business process and systems requirements
3. Coordinate and facilitate stakeholder meeting schedules and meetings;

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4. Conduct requirements definition interviews and fact gathering meetings as required.
5. Provide After Action Reports (AARs) after each contact where a decision or follow-up action is required.
6. Develop use case diagrams and analysis
7. Identify commercial and government TAV and ITV AIT capabilities currently being researched, have been researched in the past, and/or are available for use

AMM2 Deliverables shall include but not be limited to :

AAMD03 – Requirements Identification approach and management plan

AAMD04 – Use case diagram methodology and templates.

3.2.3 AAM3 Scientific and engineering assessment Support. The contractor shall develop an approach and define protocols to:

1. Establish intended military use environments,
 - a. For each environment conduct physics assessment including but not be limited to:
 - i. Full Faraday Cycle Analyses (FFCA)
 - ii. RF Path Loss Contour Mapping
 - b. Identify expected infrastructure and dependent environments including but not limited to: electrical and information networks, data interfaces by information system, required operational capabilities, and expected operational environments
 1. Identify deployment topology
 2. Identify RFID Pilot Architecture (RPA) for each Spiral
 3. Identify baseline relating existing/immanently emerging DON/DoD initiatives
 4. Identify technology baseline capabilities for each Spiral solution set

AMM3 Deliverables shall include but not be limited to:

AAMD5 – Technology Assessment Plan approach, methodologies, and protocols

3.3 Feasibility Analysis and Management (FAM) support services as requested by task order.

3.3.1 FAM1 Feasibility analysis and support. The contractor shall develop an approach to:

1. Leverage the results from AAM activities. At a minimum, add and/or enhance performance and cost dimensions to the AAM methodology.
2. Provide quantifiable demonstrations of spiral solution set capabilities

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3. Conduct feasibility assessment interviews and fact gathering meetings as required.
4. For each solution set (Spiral) establish initial design, development, migration, and implementation specifications
5. Develop and document detailed costs for each spiral solution set based on established specifications
6. Develop feasibility of spiral in terms of all known costs, technical capabilities, and business process benefits by relevant use case and workflow
7. Provide After Action Reports (AARs) after each contact where a decision or follow-up action is required.

FAM1 Deliverables shall include but not be limited to:

FAMD01 – Feasibility analysis approach for each spiral

3.3.2 FAM2 Scientific and Engineering Feasibility Support The contractor shall develop an approach to:

1. Review and revise as necessary the physics of tag and reader performance including but not limited to Full Faraday Cycle Analyses (FFCA), RF Path Loss Contour Mapping, as well as another propagation and loss analyses as necessary
2. For designated military use environments,
 - a. For each environment conduct physics assessment including but not be limited to:
 - i. Full Faraday Cycle Analyses (FFCA)
 - ii. RF Path Loss Contour Mapping
 - b. Identify existing infrastructure and dependent environments including but not limited to: electrical and information networks, data interfaces by information system, required operational capabilities, and expected operational environments
 2. Identify and measure propagation and read rates
 3. Measure “tag” performance by product and location
 4. Measure intentional and unintentional interferers for all intended reader site locations

FAM2 Deliverables shall include but not be limited to :

FAMD02– Documented approach to demonstrating and recording technical feasibility for each spiral

3.4 Prototype Support (PS) services as requested by task order

3.4.1 PS1 Prototype stage storyboarding support The contractor shall develop a methodology and suite of reusable tools and templates to:

1. Develop storyboards for each spiral, including significant variants, to demonstrate anticipated prototype execution by use case and workflow

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2. Engage stakeholders in iterative clarification reviews of the storyboards until spiral prototype specifications are accepted as complete and approved

PS1 Deliverables shall include but not be limited to:

PSD01 – Storyboard methodology and templates

PSD02 – Initial storyboard demonstration

3.4.2 PS2 Prototype stage methodology development and support The contractor shall develop a concept of operations demonstrating their ability to:

1. Provide detailed design specifications preparation; prototyping; software configuration and tailoring analysis; systems analysis; systems integration analysis; and enterprise system analysis as needed to support the prototype process
2. Evaluate Spiral requirements against seven key dimensions: platform requirements, user interface (UI) requirements, workflow definitions, device support, integration requirements, data distribution, service level requirements
3. Develop complete working prototypes of approved Spiral solution sets
4. Baseline tag and reader input and output data definitions and schemas, and business process rules and process flows.

PS2 Deliverables shall include but not be limited to:

PSD03 – Spiral prototype evaluation concept of operations

PSD04 – Spiral system architecture and topology templates and design approach

PSD05 – Processes and workflows demonstrating approach to developing detailed Plot and Full stage implementation plans and timelines for each spiral

3.4.3 PS3 Prototype stage migration management support The contractor shall develop an approach to:

1. Coordinate support for providing data sets required for testing and training line items
2. Coordinate support required to develop, validate and implement extraction, transformation, and load (ETL) scripts for all requirements including but not limited to: spiral testing and training scenarios in each stage with all government systems and commercial information systems
3. Identify middleware requirements and alternatives
4. Coordinate and facilitate stakeholder and solution providers' comparative analysis activities of analogous legacy and new functionality as well as a test plan for validating final migration scripts.
5. Coordinate the development and update of a Migration Plan (MP) for spiral prototype, pilot, and full

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implementation efforts

6. Provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to this activity track task.

PS3 Deliverables shall include but not be limited to:

PSD06 – Migration Plan (MP) approach

3.4.4 PS4 Prototype stage bill of material (BOM) development The contractor shall develop a concept of operations demonstrating their ability to:

1. Develop Detailed Spiral “bill of materials” with sources of supply and service providers for prototype, pilot and full implementation stages.
2. Acquire and or support the acquisition of BOM items required for pilot implementations, per approved pilot implementation plan

PS4 Deliverables shall include but not be limited to:

PSD07 – Prototype BOM development plan

3.4.5 PS5 Prototype stage Umbrella System integration The contractor shall develop an approach to:

1. Provide system integration analysis, systems analysis, and system capability validation.
2. Identify required Umbrella System integration points
3. Identify alternative integration and middleware solutions
4. Conduct and complete approved integration activities.
5. Document findings and results for submittal to and approval by the PM

PS5 Deliverables shall include but not be limited to:

PSD08 – Approach to Prototype integration plans

3.5 Pilot Implementation (PI) support services As requested by task order:

3.5.1 PI1 Pilot stage development and support The contractor shall develop a concept of operations (CONOPS) that

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demonstrates their ability to:

1. Leverage the results from PS activities. At a minimum, add and/or enhance performance and cost dimensions to the AAM methodology.
2. Provide software, hardware, and middleware configuration and tailoring analysis; systems analysis; systems integration analysis; and enterprise system analysis as needed to support the prototype process
3. Evaluate Spiral requirements against seven key dimensions: platform requirements, user interface (UI) requirements, workflow definitions, device support, integration requirements, data distribution, service level requirements
4. Develop Pilot Implementations of approved Spiral solution sets
5. Baseline tag and reader input and output data definitions and schemas, and business process rules and process flows.

PI1 Deliverables shall include but not be limited to:

PID01 – Spiral Pilot stage evaluation CONOPS and templates

PID02 – Approach to maintaining system architecture and topology integrity during Pilot development stage

PID03 – Detailed approach to developing Full implementation stage plans and timelines based on Pilot stage efforts

3.5.2 PI2 Pilot stage migration management support The contractor shall develop an approach to:

1. Coordinate support for providing data sets required for testing and training line items
2. Coordinate support required to develop, validate and implement extraction, transformation, and load (ETL) scripts for all requirements including but not limited to: spiral testing and training scenarios in each stage with all government systems and commercial information systems
3. Identify middleware requirements and alternatives
4. Coordinate and facilitate stakeholder and solution providers' comparative analysis activities of analogous legacy and new functionality as well as a test plan for validating final migration scripts.
5. Coordinate the development and update of a Migration Plan (MP) for spiral prototype, pilot, and full implementation efforts
6. Provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to this activity track task.

PI2 Deliverables shall include but not be limited to:

PSD04 – Migration Plan (MP) processes and workflows

3.5.3 PI3 Pilot stage bill of material (BOM) development The contractor shall, based on the approved Prototype BOM concept of operations (CONOPS), demonstrate their ability to leverage previous efforts and:

1. Develop Detailed Spiral “bill of materials” with sources of supply and service providers for pilot and full implementation stages.
2. Acquire and or support the acquisition of BOM items required for pilot implementations, per approved pilot implementation plan

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PI3 Deliverables shall include but not be limited to:

PID05 – Pilot BOM development plans items required for pilot implementations, per approved pilot implementation plan

3.5.4 PI4 Pilot stage Umbrella System integration The contractor shall, leveraging previous efforts, demonstrate the following abilities to support Pilot stage requirements.

1. Provide system integration analysis, systems analysis, and system capability validation.
2. Identify required Umbrella System integration points
3. Identify alternative integration and middleware solutions
4. Conduct and complete approved integration activities.
5. Document findings and results for submittal to and approval by the PM

PI4 Deliverables shall include but not be limited to:

PSD06 – Approach to Pilot integration

3.5.5 PI5 Pilot stage field implementation support The contractor shall demonstrate their approach to:

1. Conduct field implementations of Pilot stage spirals

PI5 Deliverables shall include but not be limited to:

PID07 – Approach to Pilot implementation and coordination activities

3.6 Full Implementation (FI) support services As requested by task order:

3.6.1 FI1 Full Implementation stage development and support The contractor shall develop a methodology demonstrating their ability to:

2. Leverage the results from PI activities. At a minimum, add and/or enhance performance and cost dimensions to the AAM methodology.
3. Provide software maintenance support, systems analysis, software and configuration/tailoring analysis; data management and distribution, and engineering drawing support.
4. Provide analysis and feedback on deficiency reports (DR) and problem reports (PR) received from the government
5. Conduct and provide documentation of the analysis, evaluation, and proposed response/ alternative courses of action for DR and PRs to government stakeholder organizations for approval and prioritization
6. Perform approved maintenance activities on approved courses of actions
7. Coordinate with stakeholder organizations to complete testing of completed maintenance
8. Install approved updates/releases of production hardware and software according to government approved

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release policy

9. Update documentation as applicable, to include but not be limited to: requirements, design, user, system, and configuration management logs.

FI1 Deliverables shall include but not be limited to:

FID01 – Full Implementation stage production plans

3.6.2 FI2 Full Implementation stage migration management support The contractor shall demonstrate their approach to:

1. Coordinate support for providing data sets required for testing and training line items
2. Coordinate support required to develop, validate and implement extraction, transformation, and load (ETL) scripts for all requirements including but not limited to: spiral testing and training scenarios in each stage with all government systems and commercial information systems
3. Identify middleware requirements and alternatives
4. Coordinate and facilitate stakeholder and solution providers' comparative analysis activities of analogous legacy and new functionality as well as a test plan for validating final migration scripts.
5. Coordinate the development and update of a Migration Plan (MP) for spiral prototype, pilot, and full implementation efforts
6. Provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to this activity track task.

FI2 Deliverables shall include but not be limited to:

FID02 – Full Implementation stage Migration Plan (MP)

3.6.3 FI3 Full Implementation stage bill of material (BOM) development The contractor shall leverage prior efforts to :

1. Develop Detailed Spiral “bill of materials” with sources of supply and service providers for ull implementation stages.
2. Acquire and or support the acquisition of BOM items required for pilot implementations, per approved full implementation plan

FI3 Deliverables shall include but not be limited to:

FID03 – Full Implementation stage BOM development plan

3.6.4 FI4 Full Implementation stage Umbrella System integration The contractor shall leverage prior efforts to :

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1. Provide system integration analysis, systems analysis, and system capability validation.
2. Identify required Umbrella System integration points
3. Identify alternative integration and middleware solutions
4. Conduct and complete approved integration activities.
5. Document findings and results for submittal to and approval by the PM

FI4 Deliverables shall include but not be limited to:

FID04 – Full Implementation stage Integration plans

3.6.5 FI Full Implementation stage field implementation support The contractor shall demonstrate their approach to:

Conducting field implementations of spiral in the Full Implementation stage

FI5 Deliverables shall include but not be limited to:

FID05 – Approach to Full Implementation stage field support and coordination activities

FID06 – Production Version Succession and/or Retirement Plan

4.0 Intellectual Property and Government Furnished Information

4.1 Intellectual Property. The United States Government funds line items in this contract. All intellectual property generated and/or delivered pursuant to this contract agreement will be subject to appropriate federal acquisition regulations which entitle the Government to unlimited license rights in technical data and computer software developed exclusively with Government funds, a nonexclusive "paid-up" license to practice any patentable invention or discovery made during the performance of this task order, and a "paid-up" nonexclusive and irrevocable worldwide license to reproduce all works (including technical and scientific articles) produced during task orders under this contract.

The Contractor shall provide a copy of ALL source code prior to receiving the final payment of task orders under this contract. At the completion of all task orders under this contract, the Contractor shall return any items that were provided by the Government to accomplish the particular task order (TO).

4.1 GOVERNMENT FURNISHED INFORMATION. Government Furnished Information (GFI) is for the Contractor's exclusive use during the period of performance of the Contract. These typically will include documents produced or owned by the Government including systems documentation, systems manuals, operation procedures, standards, specifications or guidelines governing development of deliverables, manuals and related materials. Additional government furnished material may consist of database summaries and existing mainframe file structures. This additional government furnished documentation will be discussed and coordinated during PMT coordination meetings. Specific project documentation shall be used as provided, or updated with PM approval, during the period of performance. These documents include but are not limited to:

1. MIL-STD-129P w/Change 3

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2. United States Navy Radio Frequency (RFID) Implementation Plan
3. DOD AT&L Memoranda on RFID
4. DFAR Clause #252.211-7006
5. NXR⁴L System and Project Documentation
6. Implementation Planning Workbook (IPW) template

4.2 Security Requirements DoD Information Assurance Certification and Accreditation Process (DIACAP) establishes the DoD Information Assurance (IA) Certification and Accreditation (C&A) process for authorizing the operation of DoD information systems consistent with the Federal Information Security Management Act (FISMA), DoD Directive (DoDD) 8500.1, and DoD Directive 8100.1.

In order to ensure Application Certification and Accreditation can be achieved, all contractors must adhere to DIACAP policy. If a contractor finds a situation where a policy cannot be adhered to, the contractor is required to consult with the NFELC Information Systems Security Manager (ISSM) and Designated Accreditation Authority (DAA) to determine level of risk, identify compensating controls, and decide if a policy exception will be allowed prior to development of the application solution.

5.0 GOVERNMENT FURNISHED RESOURCES

5.1 Temporary government space may be made available, on a case-by-case basis, to the contractor in order to successfully complete requisite onsite document reviews, attend meetings, make site visits, and collect information that can not normally be transported from the government site to the contractor's facilities.

5.2. All Government provided products including hardware, software, supplies, and facilities will remain the property of the Government and shall be returned upon completion of the support services. All documented procedures, customized software, applications/software enhancements and similar other changes and additions to or relating to Government provided products developed under this task order will become the property of the US Government. The contractor shall return any items that were used during the performance of these requirements by the end of the performance period.

6.0 NAVY MARINE CORPS INTRANET

The desktop environment currently being used to run the applications consists of IBM compatible microcomputers that interface to the mainframe using a web interface. All current and future development / migration of Navy software systems must be tested and certified to properly function and operate within the NMCI environment. As a result, all software development and modification resulting from the work accomplished under this contract must be capable of being accredited and certified according to Navy and NMCI policy and directives.

7.0 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT) SECTION 508 ACCESSIBILITY STANDARDS DETERMINATION OF APPLICABILITY

All Electronic and Information Technology (EIT) procured through this Task must meet the applicable accessibility standards at 36 CFR 1194, unless an agency exception to this requirement exists. 36 CFR 1194 implements Section 508 of the Rehabilitation Act of 1973, as amended, and is viewable at <http://www.access-board.gov/508.htm>

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8.0 SECURITY

Work performed under this task does not required access to Classified Material however all Contractor personnel working under this task order must be US citizens. At the discretion of the Task Order Manager, the Contractor shall complete and sign a “Conflict Of Interest and Non-Disclosure Statement” form, which prohibits contractor personnel from disclosing to any person any contractual information to which they may have access on this Task Order.

9.0 ADMINISTRATIVE CONSIDERATIONS.

Hours of Work. The Contractor shall conform to the Client agency’s core business hours. The Contractor shall provide coverage at the place(s) of performance from 0700 to 1700, Monday through Friday with the exception of Federal holidays.

9.1 Place of Performance. NAVFACENCOMHQ, NFELC, NCBC Gulfport, NECE, and Contractor Facility unless otherwise agreed to as part of a meeting place or as required for the performance of a task element.

9.2 Period of Performance. The period of performance for the base contract shall be from date of Task Order award through the twelve months following the award date. There shall be four one year options, if exercised, added to the task order period of performance.

10.0 TRAVEL.

Travel and per diem and/or local travel will be scheduled as necessary to satisfy the performance requirements identified in Section 4.0 of this document.

Contractor travel shall be in accordance with the Joint Travel Regulations (JTR). The PM will approve all trips via a Travel Request Form (in client format) or via a Work Order and shall be acknowledged by the Contracting Officer. Within three days of contractor return from travel, a travel report (in contractor format) shall be submitted by the contractor to the PM OR the Contractor and the PM may agree to have the Contractor include the travel report information in the appropriate Monthly Technical Report and Monthly Financial Report, submitted by the Contractor to the Contracting Officer

11.0 TASK ORDER MANAGER

Matthew J. Meyer, Assistant CIO for the NECE, referred to throughout Section C as the Project Manager (PM), NAVFACENCOM 1322 Patterson Ave SE Suite 1000 Washington Navy Yard, D.C. 20374-5065 Tel: 202-685-9288 Email: matthew.meyer@navy.mil

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Deputy Project Managers may be designated by the Task Order Manager for individual task orders issued under this contract. Designated Deputy Project Managers, acceptable to the Contracting Officer, have full PM and Task Order Manager authority for the task orders for which they are designated.

12. The Solicitation task orders are incorporated herein by reference.

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SECTION D PACKAGING AND MARKING

Best Commercial practices are acceptable.

Mark For: Contract

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SECTION E INSPECTION AND ACCEPTANCE

Inspection and acceptance is by the government cognizant technical representative at destination.

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SECTION F DELIVERABLES OR PERFORMANCE

CLIN - DELIVERIES OR PERFORMANCE

CLIN 0001-0002 Effective date through 9/30/2009

CLIN 0002 1/2/2008 - 9/30/2009

CLIN 0003 10/1/2009 - 9/30/2010

CLIN 0004 10/1/2010 - 9/30/2011

CLIN 0005 10/1/2011 - 9/30/2012

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SECTION G CONTRACT ADMINISTRATION DATA

A. Government Poc: Rochelle Lee, rochelle.lee@navy.mil, 757-322-4182

B. As a modification to Section G-Contract Administration Data

Submission of Invoices-

Invoices shall be submitted electronically to the following email address:

NFAinvoicesET@navy.mil

A Form 7300 shall be submitted for electronic payment with each invoice.

C. Contract Administration Office shown below is deleted.

The Contract Administration Office is UIC: N400870

NAVFAC Washington

1314 Harwood St. SE, Bldg 212

Washington Navy Yard, Washington, DC 20374-5018

D. ADMINISTRATIVE CHANGES

The purpose of this modification is to change the contract's Administrative Contracting Office (Block 16) from Naval Facilities Engineering Command Washington, Washington, D.C., to Naval Facilities Engineering Command ATLANTIC, Norfolk, Virginia, effective 1 November 2007.

The Mailing address is:

Naval Facilities Engineering Command Atlantic

6506 Hampton Blvd.

Norfolk, VA. 23508

Attn: Jennifer L. McGuire, Contracting Officer, (757) 322-4523

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NOTE: Email address for Jennifer McGuire is: Jennifer.L.McGuire@navy.mil

All other terms and conditions of the contract/Task Order remain unchanged.

Accounting Data

SLINID	PR Number	Amount
2001		[REDACTED]
LLA :		
AA 17 07071804 KU3N 252 FA678 C 068342 2D 678 910CX25210CX		
Standard Number: N0002507RC2056R		

BASE Funding [REDACTED]
Cumulative Funding [REDACTED]

MOD 02

2002		[REDACTED]
LLA :		
AB 17 08081804 KU3N 0252 FA678 C 068342 2D 000678 910CX25210CX		
Standard Number: N0002508RC2052R		

MOD 02 Funding [REDACTED]
Cumulative Funding [REDACTED]

MOD 05 Funding [REDACTED]
Cumulative Funding [REDACTED]

MOD 06

200301	N/A	[REDACTED]
LLA :		
AD 1791806 KC6C 252 FA678 9 068342 2D 01C6C0 9109X252109X		
Standard Number: N0002509RC2144R		

200302	N/A	[REDACTED]
LLA :		
AC 1791804 KC6C 252 FA678 S 068342 2D 01C6C0 910SX25210SX		
Standard Number: N0002509RC2143R		

MOD 06 Funding [REDACTED]
Cumulative Funding [REDACTED]

MOD 07

2004	N/A	[REDACTED]
LLA :		
AE 17 01804 KC6C 252 62583 068688 2D CNWA42 625830WRTCKQ		
Standard Number: N6258310RCNWA42		

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MOD 07 Funding [REDACTED]
Cumulative Funding [REDACTED]

MOD 08 Funding [REDACTED]
Cumulative Funding [REDACTED]

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SECTION H SPECIAL CONTRACT REQUIREMENTS

H.1 Authorization to Subcontract

The approval of the Contracting Officer is required for all subcontracts to companies unless the Subcontractor has an approved purchasing system. (See FAR 52.244-2).

H.2 Government-Furnished Information

a. The contractor will have access to business sensitive and source selection sensitive information in the performance of this contract. The contractor agrees that it shall not divulge information beyond designated Government representatives without prior written approval of the Contracting Officer. The contractor also agrees to restrict access to such information to individuals who have been identified as having “a need to know.”

b. The contractor acknowledges that such access might preclude it from competing or proposing as a prime or subcontractor on subsequent contract actions that utilize information derived from the performance of this contract. FAR Subpart 9.5 contains regulations concerning Organizational Conflicts of Interest.

c. Following completion of this contract, the contractor agrees that it will not disclose specific business sensitive and source selection sensitive information acquired in project planning, the acquisition process, including project review and approval by higher authorities, financial closing, and project operation and management to developers, financial institutions, and other interested parties.

H.3 Security Requirements

a. The contractor shall comply with all activity security requirements. Upon request, the contractor may be required to submit the name and address of each employee performing work under this contract, and shall have the employees fill out questionnaires and other forms for security as required.

b. Neither the contractor nor any of its employees shall disclose or cause to be disseminated any information concerning the operations of this activity.

c. All inquiries, comments, or complaints arising from any matter observed, experienced, or

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learned as a result of or in connection with the performance of this contract, the resolution of which may require the dissemination of official information will be directed to the Contracting Officer.

H.4. Liability Insurance.

The contractor shall maintain insurance as appropriate in the minimum amounts required in accordance with FAR 52.228-7, Insurance –Liability to Third Persons (MAR 1996); and applicable state insurance for Workers' Compensation. If work is to be performed on a government installation that is not a U.S. territory, the contractor will be required to have insurance in accordance with FAR 52.228-3, Workers' Compensation Insurance (Defense Base Act) (APR1984), and FAR 52.228-4, Workers' Compensation and War-Hazard Insurance Overseas (APR 1984), which is to be negotiated on the individual order requiring the overseas work.

H.5 Substitution of Key Personnel

Any substitution of Key Personnel must be approved by the government.

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SECTION I CONTRACT CLAUSES

Applicable Section I Contract clauses of the basic contract are incorporated herein.

These FAR clauses are incorporated herein.

FAR 52.212.4, Commercial Terms and Conditions--Commercial Items (FEB 2007)

FAR 52.217-8, Option to Extend Services (NOV 1999)

FAR 52.217-9, Option to Extend the Term of the Contract (MAR 2000)

FAR 52.232-18, Availability of Funds (APR 1984)

FAR 52.232-19, Availability of Funds for the Next Fiscal Year (APR 1984)

FAR 52.239-1, Privacy or Security Safeguards (AUG 1996)

FAR 52.216-31, Time-and-Materials/Labor Hour Proposal Requirements--Commercial Item Acquisitions (FEB 2007)

NOTICE:

1. The government reserves the right to incrementally fund this effort based on available funding.
2. Contracts for commercial goods and services in Seaport-e are generally awarded as fixed-price contracts with fixed-price labor rates. Also, see FAR 12.207.

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SECTION J LIST OF ATTACHMENTS

SECTION C: TASK ORDER DESCRIPTIONS AND SPECIFICATIONS

Assessment and Development Support for Total Asset Visibility (TAV)/Intransit Visibility (ITV) Automatic Identification Technology (AIT) Solutions

1.0 INTRODUCTION.

TAV/ITV AIT enablement of the Naval Expeditionary Combat Enterprise (NECE) table of allowance (TOA) lifecycle is a key enabling technology for the warfighter. The NAVFAC Expeditionary Program Office (NEPO) requirement is to incorporate AIT technology enablers throughout the deployment lifecycle: from the warehouse, to the ship deck, through all theater distribution points, to reconstitution, back to the ship deck and back to the warehouse. This requirement encompasses personnel resources, business processes and mission, as well as technology. The overarching goal is to implement advanced AIT in general and radio frequency identification (RFID) technology in particular across the various NAVFAC, NECE, and other required DoD and DON functional areas to support asset visibility: in-transit, in-storage, and in-action; as well as inventory, maintenance, and operations management. This effort will apply structured processes to investigate the full spectrum of AIT and associated wireless and satellite technologies. These include Active and Passive RFID (aRFID and pRFID, respectively) technologies and solutions mapped to NAVFAC mission components in an effort to validate the business case focused on adoption and implementation of these capabilities.

2.0 SCOPE

The contractor shall provide a multi-phase/multi-stage approach to determine the extensibility of a given suite of AIT capabilities relative to a given suite of TAV and ITV requirements. Each linked suite of capabilities and requirements, referred to as a phase – or spiral shall go through each stage until it is eliminated or adopted in a full implementation. Each spiral shall permit incremental implementation of solution sets that provide timely and cost effective capabilities within an intended span of time. This follows industry convention of providing value added solutions, with an expected lifespan value, while continuing improvement and development to enhance, extend, and/or replace these solutions in the next generation or version. As solution sets are identified and version capabilities (and limitations) are approved, they shall go under configuration management control. Each version shall under go development and implementation in stages including: assessment analysis, feasibility analysis, prototype development, pilot implementation and full implementation. A version may be terminated or combined with another version at any stage. Direction and versions shall be approved and controlled by the task order manager (TOM), also referred to as the project manager (PM), through the management and planning process.

Overall Contractor-provided services shall include but not be limited to:

1. Management and Planning (MP) services such as: project management; resource scheduling and planning, metrics development, stakeholder liaison, executive level presentation development and support

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2. Assessment Analysis and Management (AAM) services such as: requirements analysis, systems analysis, business process analysis; structured protocol based analysis, migration/transition planning; documentation analysis, configuration management services

3. Feasibility Analysis and Management (FAM) services such as: requirements specification preparation, systems integration analysis, structured engineering and scientific analysis, enterprise system analysis; detailed design specification preparation; functionality determination, configuration management, independent verification and validation of hardware and software capabilities

4. Prototype Support (PS) services such as: storyboard development and presentation, Spiral solution set prototype engineering, development and testing support

5. Pilot Implementation (PI) services such as: Spiral solution set pilot development and production support, data management, system migration management, implementation coordination and support

6. Full Implementation (FI) support services such as: Spiral solution set operations and maintenance support

3.0 REQUIREMENTS The contractor shall deliver any combination of the services listed below as required by the particular task order. Each task order (TO) shall be uniquely identified and accompanied by a government estimate reflecting work hours per skill level for each line item, as well as travel, and other direct costs which the contracting officer will use to negotiate each task order under this contract

3.1 The contractor shall deliver an approach to Management and Planning (MP) services as requested by task order. Management and Planning (MP) approach shall be delivered through line items such as:

3.1.1 MP1 Project Management Support The Contractor shall develop an approach to:

1. Assemble and/or create project planning documents as required.

2. Develop a detailed master project plan (MPP) that integrates all contractor and government stakeholder requirements. The MPP shall include a description of work to be performed for each work element; a detailed estimated schedule of meetings and interviews with stakeholder personnel, deliverables, critical milestones, status reports and estimated completion. The plan shall also include any additional planning, management, and coordination necessary to properly control and coordinate each uniquely defined spiral and defines the technical and managerial processes necessary to satisfy project requirements. These will include but not be limited to work breakdown structure (WBS), organization breakdown structure (OBS), issues, risks, assumptions, and constraints. Updates to the plan documents will be part of the Management Planning Workbook.

3. Coordinate with stakeholder project management team (PMT) members to address POA&M milestones, events, and actions that affect their respective organizations. In addition, assist stakeholder organizations to perform required

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efforts.

4. Create and manage After Action Report (AAR) formats and procedures as well as other documentation as necessary to facilitate accomplishment of all activity tracks. The AARs will identify subject (what), responsible party (who), date due (when), and any difficult or controversial issues or problems and resolutions.

5. Provide independent assessments of progress to the PM

6. Manage the continuous update of a Management Planning Workbook (MPW) and MPW Executive Summary documents, conduct monthly iterative reviews with the PM and, at a minimum, publish bimonthly updates of the complete physical documents. The MPW and its Executive Summary shall contain all monthly documentation deliverables from all line items; except the monthly Invoice status report

7. Provide executive information and project management materials and collaboration tools via a PM web site;

8. Identify, configure, and provide general project management tools including but not limited to: organization knowledge planning, project management, and stakeholder configuration management tools that facilitate the tracking and management of all line item related data and information;

9. Provide Subject Matter Experts for business process and/or technical expertise support as required.

MP1 Deliverables shall include but not be limited to:

MPD01 – Management Planning Workbook (MPW) documentation outline and template

MPD02 – MPW executive summary documentation outline and template

MPD03 – Project management web site plan

MPD04 – Approach to organization knowledge planning

MPD05 – Plans and provisions for SME Support, as required

3.1.2 MP2 Configuration Management Process Support The contractor shall develop an approach to:

1. Support and facilitate the establishment and operation of an interim configuration management processes.

2. Support the establishment, management and maturation of an applicable CM process. This shall include as a minimum: identifying and defining the specific configuration items to be managed within each Spiral baseline; controlling the release and change of these items throughout the elements lifecycle, and recording and reporting the status of configuration items and change requests. This includes but not limited to the use of the following conceptual elements: Document Change Requests (DCR), Problem Reports (PR), Change Requests (CR), Discrepancy Reports (DR), Modification Reports (MR)

3. Provide management support and leadership in the implementation of a Configuration Management (CM) process supporting the multi-phase/multi-stage Spiral approach. Support the integration of this process with existing NAVFAC resource allocation, lifecycle documentation management approval, and execution management processes.

4. Compile and document spiral configuration end items and manage an organization knowledge planning tool

5. Assist and support the requirements analysis and specification development for the acquisition/ development of a

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stakeholder level software configuration management tool. This support shall include gathering requirements, fact finding and analysis of potential solutions, development of alternatives, tailoring these to fit stakeholder

MP2 Deliverables shall include but not be limited to

MPD06 – Configuration Management (CM) methodology and monthly update. This shall include as a minimum: configuration end item identification and management schemas, stakeholder roles and responsibilities,

3.1.3 MP3 Stakeholder Liaison and Systems Analysis and Engineering Support The contractor shall develop an approach to:

1. Coordinate and establish a working relationship between the PM and the stakeholder organizations characterized by mutual understanding of organization objectives, bi-lateral communications and trust.
2. Provide suggestions and recommendations to stakeholder managers and the PM concerning business process re-engineering, alternative workflows, organization restructuring, software tailoring, modifications and additions that will assist NAVFACHQ ERL, NECE, NFELC, NBVC, and NCBC Gulfport in meeting ERL program business requirements.
3. Support, facilitate, and guide system analysis work groups and tiger teams as required to assist stakeholders in clarifying business processes and workflows
4. Develop executive level information and presentation materials as requested
5. Conduct executive level presentations promoting NAVFAC and NECE TAV and ITV AIT program objectives and progress
6. Provide documentation for liaison/system analysis activities where decisions or follow-up actions are required in AAR format with relevant attachments.

MP3 Deliverables shall include but not be limited to:

MPD07 – Documented approach and delivery methodology for stakeholder liaison, systems analysis and engineering support activities including but not limited to: business process re-engineering recommendations, tiger team facilitation, and executive presentation materials

3.1.4 MP4 Training Support The contractor shall develop and approach to:

1. Identify stakeholder training requirements and manage in the organization knowledge planning tool. Requirements shall be organized in a work breakdown structure (WBS) identifying the general to specific training needs of each organization element,
2. Develop draft training requirements by gathering organization requirements from stakeholder representatives and tailoring these to fit implementation schedule
3. Present draft training requirements data in final format to the PM for review and approval
4. Support the presentation of training requirements to senior stakeholder leadership for implementation
5. Develop training materials and scenarios for each Spiral “use case”
6. Manage and support the development of training schedules for all stakeholder personnel
7. Provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to this activity track task.

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8. Provide on-site training support during implementations

MP4 Deliverables shall include but not be limited to

MPD08 – Documented approach and methodology for the assessment, development, and delivery of training materials and training for each spiral

3.1.5 MP5 Meeting Support. The contractor shall conduct and participate in conferences, reviews and meetings to be held at either Contractor or Government facilities. The Contractor shall make facilities available for Government-only meetings during all conferences, meetings and reviews held at Contractor facilities.

The PM will conduct iterative reviews with the PMT government and contractor members. The contractor shall be guided by PM decisions for enhancing, developing, and supporting business process and system functions, design objectives, business processes, and interfaces.

The contractor team will attend (in person, by VTC or by conference phone as directed by the PM) the following meetings, at a minimum; the meetings will be called by the PM. Meetings will adhere to a pre-defined agenda to minimize the time required and to insure each meeting targets / addresses key project issues:

1. Project / Task Kick-off Meeting
2. Weekly Project Status Meetings (on-site, by Teleconference, by VTC)
3. Monthly Status Briefing
4. Bi-Monthly Documentation reviews
5. User Requirements Clarification Meetings
6. Deliverable Completion/Signoff
7. Project Completion/Signoff

In addition, the contractor shall attend, if requested, the following meetings or significant portions thereof:

8. PMT Iterative Reviews. As part of this review, the contractor shall provide a Project Management Plan (in Microsoft Project file format) describing the time and estimated work associated with all line items in a particular task order. The Project Management Plan will be maintained and made available to the government as updates along with weekly project status meetings.
9. Meetings/interviews with government personnel. The contractor shall contact, interview, or meet with government personnel as necessary to accomplish all line items. The government PMT members will serve as the primary points of contact for any contact with government personnel. The PM will direct the contractor to appropriate individuals or organizations as necessary. The contractor shall provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to an activity track task. The AARs will identify subject (what), responsible party (who), date due (when), and any difficult or controversial issues or problems and resolutions. Suggestions and recommendations will be presented in draft and final reports in Microsoft PowerPoint format. The contractor shall present the prior weeks AARs and explain weekly project status in Microsoft PowerPoint file/presentation briefing format and allow for questions and answers.

3.1.6 MP6 Monthly Invoice Status Reports. The Contractor shall provide a Monthly Invoice Status Report as set

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forth below. Report shall include technical accomplishments and expenditures (labor hours, travel, and material) and a list of personnel working the task order by paragraph. Monthly Invoice Status Reports are due to the Task Order Manager (TOM) by the 10th of each month.

3.2 The contractor shall deliver Assessment Analysis and Management (AAM) services as requested by task order.

3.2.1 AAM1 Assessment methodology development and support The contractor shall:

Develop and apply a methodology to assess and compare business process requirements and automatic identification technologies (AIT) technology capabilities to support potential TAV and ITV solutions. This methodology must support establishment and management of a baseline for each spiral of value added solution sets. As these solution sets are identified and version capabilities (and limitations) identified and approved, they shall go under configuration management control. Each spiral solution set shall have an expected lifespan identified, with expected availability and termination values. The methodology will support planning for continuing improvement and development to enhance, extend, and/or replace these solutions in future generations or versions. AIT technologies to be assessed include but are not limited to: passive low frequency (LF) RFID, passive high frequency (HF) RFID, passive ultra-high frequency (UHF) RFID, Ultra-wide band (UWB) RFID, Semi-active RFID technologies, Surface acoustic wave (SAW), Active RFID technologies, bar code technologies, item unique identification (UID) marking technologies, contact memory technologies, and GSM and satellite communications.

AMM1 Deliverables shall include but not be limited to:

AAMD01 – Assessment Methodology documentation

AAMD02 – Sample assessment of identified Spirals and their baselines

3.2.2 AAM2 Requirements development support The contractor shall develop an approach to :

1. Provide requirements analysis; business process analysis; software requirements specification preparation; enterprise system analysis as need to support the requirements gathering process
2. Determine business process and systems requirements
3. Coordinate and facilitate stakeholder meeting schedules and meetings;
4. Conduct requirements definition interviews and fact gathering meetings as required.
5. Provide After Action Reports (AARs) after each contact where a decision or follow-up action is required.
6. Develop use case diagrams and analysis
7. Identify commercial and government TAV and ITV AIT capabilities currently being researched, have been researched in the past, and/or are available for use

AMM2 Deliverables shall include but not be limited to :

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AAMD03 – Requirements Identification approach and management plan

AAMD04 – Use case diagram methodology and templates.

3.2.3 AAM3 Scientific and engineering assessment Support The contractor shall develop an approach and define protocols to:

1. Establish intended military use environments,
 - a. For each environment conduct physics assessment including but not be limited to:
 - i. Full Faraday Cycle Analyses (FFCA)
 - ii. RF Path Loss Contour Mapping
 - b. Identify expected infrastructure and dependent environments including but not limited to: electrical and information networks, data interfaces by information system, required operational capabilities, and expected operational environments
 1. Identify deployment topology
 2. Identify RFID Pilot Architecture (RPA) for each Spiral
 3. Identify baseline relating existing/immanently emerging DON/DoD initiatives
 4. Identify technology baseline capabilities for each Spiral solution set

AMM3 Deliverables shall include but not be limited to:

AAMD5 – Technology Assessment Plan approach, methodologies, and protocols

3.3 Feasibility Analysis and Management (FAM) support services as requested by task order.

3.3.1 FAM1 Feasibility analysis and support The contractor shall develop an approach to:

1. Leverage the results from AAM activities. At a minimum, add and/or enhance performance and cost dimensions to the AAM methodology.
2. Provide quantifiable demonstrations of spiral solution set capabilities
3. Conduct feasibility assessment interviews and fact gathering meetings as required.
4. For each solution set (Spiral) establish initial design, development, migration, and implementation specifications
5. Develop and document detailed costs for each spiral solution set based on established specifications
6. Develop feasibility of spiral in terms of all known costs, technical capabilities, and business process benefits by relevant use case and workflow
7. Provide After Action Reports (AARs) after each contact where a decision or follow-up action is required.

FAM1 Deliverables shall include but not be limited to:

FAMD01 – Feasibility analysis approach for each spiral

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3.3.2 FAM2 Scientific and Engineering Feasibility Support The contractor shall develop an approach to:

1. Review and revise as necessary the physics of tag and reader performance including but not limited to Full Faraday Cycle Analyses (FFCA), RF Path Loss Contour Mapping, as well as another propagation and loss analyses as necessary
2. For designated military use environments,
 - a. For each environment conduct physics assessment including but not be limited to:

i. Full Faraday Cycle Analyses (FFCA)

ii. RF Path Loss Contour Mapping

- b. Identify existing infrastructure and dependent environments including but not limited to: electrical and information networks, data interfaces by information system, required operational capabilities, and expected operational environments
 2. Identify and measure propagation and read rates
 3. Measure “tag” performance by product and location
 4. Measure intentional and unintentional interferers for all intended reader site locations

FAM2 Deliverables shall include but not be limited to :

FAMD02– Documented approach to demonstrating and recording technical feasibility for each spiral

3.4 Prototype Support (PS) services as requested by task order

3.4.1 PS1 Prototype stage storyboarding support The contractor shall develop a methodology and suite of reusable tools and templates to:

1. Develop storyboards for each spiral, including significant variants, to demonstrate anticipated prototype execution by use case and workflow
2. Engage stakeholders in iterative clarification reviews of the storyboards until spiral prototype specifications are accepted as complete and approved

PS1 Deliverables shall include but not be limited to:

PSD01 – Storyboard methodology and templates

PSD02 – Initial storyboard demonstration

3.4.2 PS2 Prototype stage methodology development and support The contractor shall develop a concept of operations demonstrating their ability to:

1. Provide detailed design specifications preparation; prototyping; software configuration and tailoring analysis; systems analysis; systems integration analysis; and enterprise system analysis as needed to support the prototype process

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2. Evaluate Spiral requirements against seven key dimensions: platform requirements, user interface (UI) requirements, workflow definitions, device support, integration requirements, data distribution, service level requirements
3. Develop complete working prototypes of approved Spiral solution sets
4. Baseline tag and reader input and output data definitions and schemas, and business process rules and process flows.

PS2 Deliverables shall include but not be limited to:

PSD03 – Spiral prototype evaluation concept of operations

PSD04 – Spiral system architecture and topology templates and design approach

PSD05 – Processes and workflows demonstrating approach to developing detailed Plot and Full stage implementation plans and timelines for each spiral

3.4.3 PS3 Prototype stage migration management support The contractor shall develop an approach to:

1. Coordinate support for providing data sets required for testing and training line items
2. Coordinate support required to develop, validate and implement extraction, transformation, and load (ETL) scripts for all requirements including but not limited to: spiral testing and training scenarios in each stage with all government systems and commercial information systems
3. Identify middleware requirements and alternatives
4. Coordinate and facilitate stakeholder and solution providers' comparative analysis activities of analogous legacy and new functionality as well as a test plan for validating final migration scripts.
5. Coordinate the development and update of a Migration Plan (MP) for spiral prototype, pilot, and full implementation efforts
6. Provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to this activity track task.

PS3 Deliverables shall include but not be limited to:

PSD06 – Migration Plan (MP) approach

3.4.4 PS4 Prototype stage bill of material (BOM) development The contractor shall develop a concept of operations demonstrating their ability to:

1. Develop Detailed Spiral “bill of materials” with sources of supply and service providers for prototype, pilot and full implementation stages.
2. Acquire and or support the acquisition of BOM items required for pilot implementations, per approved pilot implementation plan

PS4 Deliverables shall include but not be limited to:

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PSD07 – Prototype BOM development plan

3.4.5 PS5 Prototype stage Umbrella System integration The contractor shall develop an approach to:

1. Provide system integration analysis, systems analysis, and system capability validation.
2. Identify required Umbrella System integration points
3. Identify alternative integration and middleware solutions
4. Conduct and complete approved integration activities.
5. Document findings and results for submittal to and approval by the PM

PS5 Deliverables shall include but not be limited to:

PSD08 – Approach to Prototype integration plans

3.5 Pilot Implementation (PI) support services As requested by task order:

3.5.1 PI1 Pilot stage development and support The contractor shall develop a concept of operations (CONOPS) that demonstrates their ability to:

1. Leverage the results from PS activities. At a minimum, add and/or enhance performance and cost dimensions to the AAM methodology.
2. Provide software, hardware, and middleware configuration and tailoring analysis; systems analysis; systems integration analysis; and enterprise system analysis as needed to support the prototype process
3. Evaluate Spiral requirements against seven key dimensions: platform requirements, user interface (UI) requirements, workflow definitions, device support, integration requirements, data distribution, service level requirements
4. Develop Pilot Implementations of approved Spiral solution sets
5. Baseline tag and reader input and output data definitions and schemas, and business process rules and process flows.

PI1 Deliverables shall include but not be limited to:

PID01 – Spiral Pilot stage evaluation CONOPS and templates

PID02 – Approach to maintaining system architecture and topology integrity during Pilot development stage

PID03 – Detailed approach to developing Full implementation stage plans and timelines based on Pilot stage efforts

3.5.2 PI2 Pilot stage migration management support The contractor shall develop an approach to:

1. Coordinate support for providing data sets required for testing and training line items
2. Coordinate support required to develop, validate and implement extraction, transformation, and load (ETL) scripts for all requirements including but not limited to: spiral testing and training scenarios in each stage with all

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government systems and commercial information systems

3. Identify middleware requirements and alternatives

4. Coordinate and facilitate stakeholder and solution providers' comparative analysis activities of analogous legacy and new functionality as well as a test plan for validating final migration scripts.

5. Coordinate the development and update of a Migration Plan (MP) for spiral prototype, pilot, and full implementation efforts

6. Provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to this activity track task.

PI2 Deliverables shall include but not be limited to:

PSD04 – Migration Plan (MP) processes and workflows

3.5.3 PI3 Pilot stage bill of material (BOM) development The contractor shall, based on the approved Prototype BOM concept of operations (CONOPS), demonstrate their ability to leverage previous efforts and:

1. Develop Detailed Spiral “bill of materials” with sources of supply and service providers for pilot and full implementation stages.

2. Acquire and or support the acquisition of BOM items required for pilot implementations, per approved pilot implementation plan

PI3 Deliverables shall include but not be limited to:

PID05 – Pilot BOM development plans items required for pilot implementations, per approved pilot implementation plan

3.5.4 PI4 Pilot stage Umbrella System integration The contractor shall, leveraging previous efforts, demonstrate the following abilities to support Pilot stage requirements.

1. Provide system integration analysis, systems analysis, and system capability validation.

2. Identify required Umbrella System integration points

3. Identify alternative integration and middleware solutions

4. Conduct and complete approved integration activities.

5. Document findings and results for submittal to and approval by the PM

PI4 Deliverables shall include but not be limited to:

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PSD06 – Approach to Pilot integration

3.5.5 PI5 Pilot stage field implementation support The contractor shall demonstrate their approach to:

Conduct field implementations of Pilot stage spirals

PI5 Deliverables shall include but not be limited to:

PID07 – Approach to Pilot implementation and coordination activities

3.6 Full Implementation (FI) support services As requested by task order:

3.6.1 FI1 Full Implementation stage development and support The contractor shall develop a methodology demonstrating their ability to:

1. Leverage the results from PI activities. At a minimum, add and/or enhance performance and cost dimensions to the AAM methodology.
2. Provide software maintenance support, systems analysis, software and configuration/tailoring analysis; data management and distribution, and engineering drawing support.
3. Provide analysis and feedback on deficiency reports (DR) and problem reports (PR) received from the government
4. Conduct and provide documentation of the analysis, evaluation, and proposed response/ alternative courses of action for DR and PRs to government stakeholder organizations for approval and prioritization
5. Perform approved maintenance activities on approved courses of actions
6. Coordinate with stakeholder organizations to complete testing of completed maintenance
7. Install approved updates/releases of production hardware and software according to government approved release policy
8. Update documentation as applicable, to include but not be limited to: requirements, design, user, system, and configuration management logs.

FI1 Deliverables shall include but not be limited to:

FID01 – Full Implementation stage production plans

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3.6.2 FI2 Full Implementation stage migration management support The contractor shall demonstrate their approach to:

1. Coordinate support for providing data sets required for testing and training line items
2. Coordinate support required to develop, validate and implement extraction, transformation, and load (ETL) scripts for all requirements including but not limited to: spiral testing and training scenarios in each stage with all government systems and commercial information systems
3. Identify middleware requirements and alternatives
4. Coordinate and facilitate stakeholder and solution providers' comparative analysis activities of analogous legacy and new functionality as well as a test plan for validating final migration scripts.
5. Coordinate the development and update of a Migration Plan (MP) for spiral prototype, pilot, and full implementation efforts
6. Provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to this activity track task.

FI2 Deliverables shall include but not be limited to:

FID02 – Full Implementation stage Migration Plan (MP)

3.6.3 FI3 Full Implementation stage bill of material (BOM) development The contractor shall leverage prior efforts to :

1. Develop Detailed Spiral “bill of materials” with sources of supply and service providers for all implementation stages.
2. Acquire and or support the acquisition of BOM items required for pilot implementations, per approved full implementation plan

FI3 Deliverables shall include but not be limited to:

FID03 – Full Implementation stage BOM development plan

3.6.4 FI4 Full Implementation stage Umbrella System integration The contractor shall leverage prior efforts to :

1. Provide system integration analysis, systems analysis, and system capability validation.
2. Identify required Umbrella System integration points
3. Identify alternative integration and middleware solutions
4. Conduct and complete approved integration activities.
5. Document findings and results for submittal to and approval by the PM

FI4 Deliverables shall include but not be limited to:

FID04 – Full Implementation stage Integration plans

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3.6.5 FI Full Implementation stage field implementation support The contractor shall demonstrate their approach to:

- Conducting field implementations of spiral in the Full Implementation stage

FI5 Deliverables shall include but not be limited to:

FID05 – Approach to Full Implementation stage field support and coordination activities

FID06 – Production Version Succession and/or Retirement Plan

4.0 Intellectual Property and Government Furnished Information

4.1 Intellectual Property. The United States Government funds line items in this contract. All intellectual property generated and/or delivered pursuant to this contract agreement will be subject to appropriate federal acquisition regulations which entitle the Government to unlimited license rights in technical data and computer software developed exclusively with Government funds, a nonexclusive "paid-up" license to practice any patentable invention or discovery made during the performance of this task order, and a "paid-up" nonexclusive and irrevocable worldwide license to reproduce all works (including technical and scientific articles) produced during task orders under this contract.

The Contractor shall provide a copy of ALL source code prior to receiving the final payment of task orders under this contract. All documented procedures, customized software and data compiled or information developed for task orders under this contract becomes the property of the US Government as it is completed. At the completion of all task orders under this contract, the Contractor shall return any items that were provided by the Government to accomplish the particular task order (TO).

1. **4.1 GOVERNMENT FURNISHED INFORMATION.** Government Furnished Information (GFI) is for the Contractor's exclusive use during the period of performance of the Contract. These typically will include documents produced or owned by the Government including systems documentation, systems manuals, operation procedures, standards, specifications or guidelines governing development of deliverables, manuals and related materials. Additional government furnished material may consist of database summaries and existing mainframe file structures. This additional government furnished documentation will be discussed and coordinated during PMT coordination meetings. Specific project documentation shall be used as provided, or updated with PM approval, during the period of performance. These documents include but are not limited to:
 2. MIL-STD-129P w/Change 3
 3. United States Navy Radio Frequency (RFID) Implementation Plan
 4. DOD AT&L Memoranda on RFID
 5. DFAR Clause #252.211-7006
 6. NXR⁴L System and Project Documentation
 7. Implementation Planning Workbook (IPW) template

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4.2 Security Requirements DoD Information Assurance Certification and Accreditation Process (DIACAP) establishes the DoD Information Assurance (IA) Certification and Accreditation (C&A) process for authorizing the operation of DoD information systems consistent with the Federal Information Security Management Act (FISMA), DoD Directive (DoDD) 8500.1, and DoD Directive 8100.1.

In order to ensure Application Certification and Accreditation can be achieved, all contractors must adhere to DIACAP policy. If a contractor finds a situation where a policy cannot be adhered to, the contractor is required to consult with the NFELC Information Systems Security Manager (ISSM) and Designated Accreditation Authority (DAA) to determine level of risk, identify compensating controls, and decide if a policy exception will be allowed prior to development of the application solution.

5.0 GOVERNMENT FURNISHED RESOURCES

5.1 Temporary government space may be made available, on a case-by-case basis, to the contractor in order to successfully complete requisite onsite document reviews, attend meetings, make site visits, and collect information that can not normally be transported from the government site to the contractor's facilities.

5.2 All Government provided products including hardware, software, supplies, and facilities will remain the property of the Government and shall be returned upon completion of the support services. All documented procedures, customized software, and application/software enhancements developed under this task order will become the property of the US Government. The contractor shall return any items that were used during the performance of these requirements by the end of the performance period.

6.0 NAVY MARINE CORPS INTRANET

The desktop environment currently being used to run the applications consists of IBM compatible microcomputers that interface to the mainframe using a web interface. All current and future development / migration of Navy software systems must be tested and certified to properly function and operate within the NMCI environment. As a result, all software development and modification resulting from the work accomplished under this contract must be capable of being accredited and certified according to Navy and NMCI policy and directives.

7.0 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT) SECTION 508 ACCESSIBILITY STANDARDS DETERMINATION OF APPLICABILITY

All Electronic and Information Technology (EIT) procured through this Task must meet the applicable accessibility standards at 36 CFR 1194, unless an agency exception to this requirement exists. 36 CFR 1194 implements Section 508 of the Rehabilitation Act of 1973, as amended, and is viewable at <http://www.access-board.gov/508.htm>

8.0 SECURITY

Work performed under this task does not required access to Classified Material however all Contractor personnel working under this task order must be US citizens. At the discretion of the Task Order Manager, the Contractor shall complete and sign a "Conflict Of Interest and Non-Disclosure Statement" form, which prohibits contractor personnel

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from disclosing to any person any contractual information to which they may have access on this Task Order.

9.0 ADMINISTRATIVE CONSIDERATIONS.

Hours of Work. The Contractor shall conform to the Client agency's core business hours. The Contractor shall provide coverage at the place(s) of performance from 0700 to 1700, Monday through Friday with the exception of Federal holidays.

9.1 Place of Performance. NAVFACENCOMHQ, NFELC, NCBC Gulfport, NECE, and Contractor Facility unless otherwise agreed to as part of a meeting place or as required for the performance of a task element.

9.2 Period of Performance. The period of performance for the base contract shall be from date of Task Order award through the twelve months following the award date. There shall be four one year options, if exercised, added to the task order period of performance.

10.0 TRAVEL.

Travel and per diem and/or local travel will be scheduled as necessary to satisfy the performance requirements identified in Section 4.0 of this document.

Contractor travel shall be in accordance with the Joint Travel Regulations JTR). The PM will approve all trips via a Travel Request Form (in client format) or via a Work Order and shall be acknowledged by the Contracting Officer. Within three days of contractor return from travel, a travel report (in contractor format) shall be submitted by the contractor to the PM OR the Contractor and the PM may agree to have the Contractor include the travel report information in the appropriate Monthly Technical Report and Monthly Financial Report, submitted by the Contractor to the Contracting Officer

11.0 TASK ORDER MANAGER

Matthew J. Meyer, Assistant CIO for the NECE, referred to throughout Section C as the Project Manager (PM), NAVFACENCOM 1322 Patterson Ave SE Suite 1000 Washington Navy Yard, D.C. 20374-5065 Tel: 202-685-9288 Email: matthew.meyer@navy.mil

Deputy Project Managers may be designated by the Task Order Manager for individual task orders issued under this contract. Designated Deputy Project Managers, acceptable to the Contracting Officer, have full PM and Task Order Manager authority for the task orders for which they are designated.

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SMART CONTAINER

Task Order (TO): DESCRIPTIONS AND SPECIFICATIONS

Secure Materiel Asset Recording and Tracking (SMART) Container total asset visibility (TAV) Automatic Identification Technology (AIT) solutions

1.0 INTRODUCTION.

The NAVFAC Expeditionary Program Office (NEPO) requirement is to apply a multi-phase/multi-stage methodology to available and emerging Secure Materiel Asset Recording and Tracking (SMART) Container TAV AIT solutions. The overarching goal is to implement appropriate radio frequency identification (RFID) technology across the various NAVFAC, NECE, and other required DoD and DON functional areas to support asset visibility: in-storage, and in-action; as well as inventory, maintenance, and operations management. This effort will apply structured processes to investigate the full spectrum of AIT and associated wireless and satellite technologies. These include Active and Passive RFID (aRFID and pRFID, respectively) technologies and solutions mapped to NAVFAC mission components in an effort to create and validate the business case focused on adoption and implementation of these capabilities.

The contractor shall perform service as required to provide the Government with a list of SMART Container TAV AIT capability recommendations, and produce supporting documentation developed during the performance of system reviews. The contractor shall be responsible for executing the methodology as approved by the NEPO integrated process team (IPT) to rank SMART Container capabilities to best meet logistics functional requirements and, ultimately, NMCI compliance. Contractor recommendations enable the Government to select SMART Container candidates. The contractor shall support the design, development, and integration of all necessary hardware, software, documentation, system interfaces and implementation plans for selected existing SMART Container solutions.

2.0 SCOPE

The contractor shall apply the NEPO approved multi-phase/multi-stage approach to determine SMART Container TAV business process requirements and the RFID capabilities that can best enable them. Each linked suite of capabilities and materiel management business process requirements shall go through appropriate iterations of the assessment, feasibility, and prototype stages until it is eliminated or adopted as a candidate for further implementation. This approach permits the identification of incremental solutions that provide timely and cost effective capabilities within a given span of time. This follows industry convention of fielding value added solutions with expected life spans while continuing the improvement and development to further enhance, extend, and/or replace these solutions in the future generations. All SMART Container solution sets identified and approved shall go under configuration management control. A version may be terminated or combined with another version at any stage. Direction and versions shall be approved and controlled by the task order manager (TOM), also referred to as the project manager (PM), through the management and planning process.

Overall Contractor-provided services shall include but not be limited to:

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Management and Planning (MP) services such as: project management; resource scheduling and planning, metrics development, stakeholder liaison, executive level presentation development and support

Assessment Analysis and Management (AAM) services such as: requirements analysis, systems analysis, business process analysis; structured protocol based analysis, migration/transition planning; documentation analysis, configuration management services.

Feasibility Analysis and Management (FAM) services such as: requirements specification preparation, systems integration analysis, structured engineering and scientific analysis, enterprise system analysis; detailed design specification preparation; functionality determination, configuration management, independent verification and validation of hardware and software capabilities.

Prototype Support (PS) services such as: storyboard development and presentation, Spiral solution set prototype engineering, development and testing support

3.0 REQUIREMENTS The contractor shall deliver the services listed below. This task order (TO) is accompanied by a government estimate reflecting work hours per skill level for each line item, as well as travel, and other direct costs which the contracting officer will use to negotiate line items under this TO.

3.1 The contractor shall deliver the following SMART Container Management and Planning (MP) services.

3.1.1 SMART Container Project Management Support (MP1)

SMART Container MP1 Deliverables shall include but not be limited to:

MPD01 – SMART Container Management Planning Workbook (MPW) and monthly updates

MPD02 – SMART Container MPW summary and monthly updates

MPD03 – SMART Container Project management web site monthly update

MPD04 – SMART Container Organization knowledge planning monthly update

MPD05 – SMART Container SME Support monthly progress support, as required

3.1.2 SMART Container Configuration Management Process Support (MP2)

SMART Container MP2 Deliverables shall include but not be limited to

MPD06 – SMART Container Configuration Management (CM) methodology, plan and monthly update. This shall

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include as a minimum: spiral baseline configuration end item identification and management schemas, stakeholder roles and responsibilities, and workflows

3.1.3 SMART Container Stakeholder Liaison and Systems Analysis and Engineering Support (MP3)

SMART Container MP3 Deliverables shall include but not be limited to :

MPD07 – SMART Container business process re-engineering recommendations and monthly updates

MPD08 – SMART Container Tiger Team facilitation, as required

MPD09 – SMART Container monthly executive presentation material update

3.1.4 SMART Container Training Support (MP4)

SMART Container MP4 Deliverables shall include but not be limited to

MPD10 – SMART Container training requirements (each baseline), and monthly update

3.1.5 MP5 Meeting Support.

3.1.6 MP6 Monthly Invoice Status Reports. The Contractor shall provide a Monthly Invoice Status Report as set forth below. Report shall include technical accomplishments and expenditures (labor hours, travel, and material) and a list of personnel working the task order by paragraph. Monthly Invoice Status Reports are due to the Task Order Manager (TOM) by the 10th of each month.

3.2 The contractor shall deliver Assessment Analysis and Management (AAM) services as required below. The contractor shall identify and analyze commercial and Government SMART container solutions that have been or are: 1) currently being researched, 2) have been researched in the past, or 3) available for use. The Assessment results will adequately provide detail of each SMART Container system and its respective use case as to facilitate objective comparison with potential NECE use. Additionally, during the Assessment stage the contractor shall recommend, collect, review, analyze, and validate baseline functional requirements as necessary to integrate a SMART Container system into a logical business component

3.2.1 SMART Container Assessment methodology development and support (AAM1)

SMART Container AMM1 Deliverables shall include but not be limited to :

AAMD01 – SMART Container Assessment Methodology documentation and monthly update

AAMD02 – SMART Container Assessment of identified solution sets and their baselines

3.2.2 SMART Container Requirements development support (AAM2)

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SMART Container AMM2 Deliverables shall include but not be limited to :

AAMD03 – SMART Container Requirements Identification and Management Plan and monthly update

AAMD04 – SMART Container Use case diagram documentation and monthly update

3.2.3 SMART Container scientific and engineering assessment Support (AAM3)

SMART Container AMM3 Deliverables shall include but not be limited to :

AAMD05 – SMART Container technology assessment plan and monthly update

3.3 Contractor shall deliver SMART Container Feasibility Analysis and Management (FAM) services as required below. Present the SMART Container IPT with the potential use of a SMART Container system in NAVFAC and NECE business processes. The Contractor shall develop and apply a methodology to analyze and compare NAVFAC/NECE SMART Container use case functional requirements against existing or prototypical SMART Container systems. This shall: 1) provide a quantifiable demonstration of SMART Container solution set capabilities that provide valued benefits to current business processes; 2) ensure participating NAVAC/NECE organizations and units understand and can support efforts associated with further design, development, and implementation; and 3) include requirement introduction and migration approach in relation to identified business process

3.3.1 SMART Container Feasibility analysis and support (FAM1)

SMART Container FAM1 Deliverables shall include but not be limited to:

FAMD01 – SMART Container feasibility analyses and monthly update

3.3.2 SMART Container Scientific and Engineering Feasibility Support (FAM2)

SMART Container FAM2 Deliverables shall include but not be limited to :

FAMD02– SMART Container technology feasibility plan and monthly update

FAMD03 - SMART Container initial solution set specifications

3.4 The contractor shall deliver SMART Container Prototype Support (PS) services as required below. During the Prototype stage, a pre-production, functioning SMART Container system will be developed to evaluate the design, performance, and production potential in the NAVFAC/NECE business environment. This will represent the first attainment of the minimum capability to effectively employ a SMART Container system based on the requirements and characteristics defined in the assessment and feasibility stages.

3.4.1 SMART Container PS1 Prototype stage storyboarding support

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SMART Container PS1 Deliverables shall include but not be limited to:

PSD04 – SMART Container Spiral storyboard materials and monthly updates

PSD05 - SMART Container Storyboard presentations, as required

3.4.2 SMART Container PS2 Prototype stage methodology development and support

SMART Container PS2 Deliverables shall include but not be limited to:

PSD06 – SMART Container Spiral Prototype evaluations and monthly updates

PSD07 – SMART Container Working Prototypes as required

PSD08 – SMART Container Spiral System Architecture and topology for Pilot and Full Implementations

PSD09 - SMART Container Detailed Pilot and Full implementation plans and timeline for each Spiral

3.4.3 SMART Container PS3 Prototype stage migration management support

SMART Container PS3 Deliverables shall include but not be limited to:

PSD10 – SMART Container Migration Plan (MP) and monthly update

3.4.4 SMART Container PS4 Prototype stage bill of material (BOM) development

SMART Container PS4 Deliverables shall include but not be limited to:

PSD11 – SMART Container Prototype BOM development plan and monthly update

PSD12 - SMART Container Execution of approved Prototype BOM activities

3.4.5 SMART Container PS5 Prototype stage Umbrella System integration

SMART Container PS5 Deliverables shall include but not be limited to:

PSD13 – SMART Container Prototype Integration Plans and monthly update

PSD14 - SMART Container Execution of Prototype integration activities

PACKAGING

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Task Order (TO): DESCRIPTIONS AND SPECIFICATIONS

Advanced Packaging Material Solutions

1.0 INTRODUCTION.

The NAVFAC Expeditionary Program Office (NEPO) requirement is to apply a multi-phase/multi-stage methodology to available and emerging Advanced Packaging Material solutions. Packaging materials have a wide range of physical characteristics that affect the performance of radio frequency identification (RFID) and other automatic identification technologies (AIT). Packaging materials represent a wide range of uses including but not limited to: external ISO type shipping containers of all types, such as quad and tri con; internal modular containers and specially outfitted containers of all types, such as JMIC and those with internal drawers/compartments/racks; kitting of all types, such as tool boxes, crates, special equipment cases, fluid containers; as well materials that aid in the marking, separation, vibration dampening, and tie down. The overarching goal is to implement radio frequency identification (RFID) technology across the various NAVFAC, NECE, and other required DoD and DON functional areas to support asset visibility: in-storage, and in-action; as well as inventory, maintenance, and operations management. This effort will apply structured processes to investigate packaging materials and their effect on the full spectrum of AIT and associated wireless and satellite technologies. These include Active and Passive RFID (aRFID and pRFID, respectively) technologies and solutions mapped to NAVFAC mission components in an effort to create and validate the business case focused on adoption and implementation of these capabilities.

The contractor shall perform service as required to provide the Government with multiple Advanced Packaging Material solution recommendations for NAVFAC and NECE materiel business process requirements. The contractor shall be responsible for executing the methodology as approved by the NEPO IPT to provide Advanced Packaging material solutions that best meet functional requirements. Contractor recommendations shall enable the Government to select Advance Packaging Material solution candidates and to support the design, development, and integration of all necessary hardware, software, and documentation in order to develop system interfaces with emerging SMART Container solution sets.

2.0 SCOPE

The contractor shall apply the NEPO approved multi-phase/multi-stage approach to determine the effects of candidate packaging materials on RFID capabilities relative to SMART Container TAV requirements. Each linked suite of materiel management requirements and candidate packaging material solutions shall go through the assessment, feasibility, and/or prototype stage until it is eliminated or adopted as a candidate for further implementation. This approach permits the identification of incremental solutions that provide timely and cost effective capabilities within a given span of time. This follows industry convention of fielding value added solutions with expected life spans while continuing the improvement and development to further enhance, extend, and/or replace these solutions in the future generations. All packaging material solution sets identified and approved shall go under configuration management control. Each version shall under go development and implementation in specified stages including: assessment analysis, feasibility analysis, and prototype development. A version may be terminated or combined with another version at any stage. Direction and versions shall be approved and controlled by the task order manager (TOM), also referred to as the project manager (PM), through the management and planning process.

Overall Contractor-provided services shall include but not be limited to:

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Management and Planning (MP) services such as: project management; resource scheduling and planning, metrics development, stakeholder liaison, executive level presentation development and support.

Assessment Analysis and Management (AAM) services such as: requirements analysis, systems analysis, business process analysis; structured protocol based analysis, migration/transition planning; documentation analysis, configuration management services.

Feasibility Analysis and Management (FAM) services such as: requirements specification preparation, systems integration analysis, structured engineering and scientific analysis, enterprise system analysis; detailed design specification preparation; functionality determination, configuration management, independent verification and validation of hardware and software capabilities.

Prototype Support (PS) services such as: storyboard development and presentation, Spiral solution set prototype engineering, development and testing support.

3.0 REQUIREMENTS The contractor shall deliver the services listed below. This task order (TO) is accompanied by a government estimate reflecting work hours per skill level for each line item, as well as travel, and other direct costs which the contracting officer will use to negotiate line items under this TO.

3.1 The contractor shall deliver the following Advance Packaging Material Management and Planning (MP) services.

3.1.1 Advance Packaging Material Management and Planning services (MP1) The Contractor shall:

1. Assemble and/or create project planning documents as required.
2. Develop a detailed master project plan (MPP) that integrates all contractor and government stakeholder requirements. The MPP shall include a description of work to be performed for each work element; a detailed estimated schedule of meetings and interviews with stakeholder personnel, deliverables, critical milestones, status reports and estimated completion. The plan shall also include any additional planning, management, and coordination necessary to properly control and coordinate each uniquely defined spiral and defines the technical and managerial processes necessary to satisfy project requirements. These will include but not be limited to work breakdown structure (WBS), organization breakdown structure (OBS), issues, risks, assumptions, and constraints. Updates to the plan documents will be part of the Management Planning Workbook.
3. Coordinate with stakeholder project management team (PMT) members to address POA&M milestones, events, and actions that affect their respective organizations. In addition, assist stakeholder organizations to perform required efforts.
4. Create and manage After Action Report (AAR) formats and procedures as well as other documentation as necessary to facilitate accomplishment of all activity tracks. The AARs will identify subject (what), responsible party (who), date due (when), and any difficult or controversial issues or problems and resolutions.
5. Provide independent assessments of progress to the PM

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6. Manage the continuous update of a Management Planning Workbook (MPW) and MPW Executive Summary documents, conduct monthly iterative reviews with the PM and, at a minimum, publish bimonthly updates of the complete physical documents. The MPW and its Executive Summary shall contain all monthly documentation deliverables from all line items; except the monthly Invoice status report
7. Provide executive information and project management materials and collaboration tools via a PM web site;
8. Identify, configure, and provide general project management tools including but not limited to: organization knowledge planning, project management, and stakeholder configuration management tools that facilitate the tracking and management of all line item related data and information;
9. Provide Subject Matter Experts for business process and/or technical expertise support as required.

Advance Packaging Material MP1 Deliverables shall include but not be limited to:

MPD01 – Advance Packaging Material Management Planning Workbook (MPW) and monthly updates

MPD02 – Advance Packaging Material MPW summary and monthly updates

MPD03 – Advance Packaging Materials Project management web site monthly update

MPD04 – Advance Packaging Materials Organization knowledge planning monthly update

MPD05 – Advance Packaging Materials SME Support monthly progress support, as required

3.1.2 **Advance Packaging Material Configuration Management Process Support (MP2)** The contractor shall:

1. Support and facilitate the establishment and operation of an interim configuration management processes.
2. Support the establishment, management and maturation of an applicable CM process. This shall include as a minimum: identifying and defining the specific configuration items to be managed within each Spiral baseline; controlling the release and change of these items throughout the elements lifecycle, and recording and reporting the status of configuration items and change requests. This includes but not limited to the use of the following conceptual elements: Document Change Requests (DCR), Problem Reports (PR), Change Requests (CR), Discrepancy Reports (DR), Modification Reports (MR)
3. Provide management support and leadership in the implementation of a Configuration Management (CM) process supporting the multi-phase/multi-stage Spiral approach. Support the integration of this process with existing NAVFAC resource allocation, lifecycle documentation management approval, and execution management processes.
4. Compile and document spiral configuration end items and manage an organization knowledge planning tool
5. Assist and support the requirements analysis and specification development for the acquisition/ development of a stakeholder level software configuration management tool. This support shall include gathering requirements, fact finding and analysis of potential solutions, development of alternatives, tailoring these to fit stakeholder

Advance Packaging Materials MP2 Deliverables shall include but not be limited to

MPD06 – Advance Packaging Materials Configuration Management (CM) methodology, plan and monthly update. This shall include as a minimum: spiral baseline configuration end item identification and management schemas, stakeholder roles and responsibilities, and workflows

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3.1.3 Advance Packaging Material Stakeholder Liaison and Systems Analysis and Engineering Support (MP3) The contractor shall:

1. Coordinate and establish a working relationship between the PM and the stakeholder organizations characterized by mutual understanding of organization objectives, bi-lateral communications and trust.
 2. Provide suggestions and recommendations to stakeholder managers and the PM concerning business process re-engineering, alternative workflows, organization restructuring, software tailoring, modifications and additions that will assist NAVFACHQ ERL, NECE, NFELC, NBVC, and NCBC Gulfport in meeting ERL program business requirements.
 3. Support, facilitate, and guide system analysis work groups and tiger teams as required to assist stakeholders in clarifying business processes and workflows
4. Develop executive level information and presentation materials as requested
5. Conduct executive level presentations promoting NAVFAC and NECE TAV and ITV AIT program objectives and progress
6. Provide documentation for liaison/system analysis activities where decisions or follow-up actions are required in AAR format with relevant attachments.

Advance Packaging Materials MP3 Deliverables shall include but not be limited to :

MPD07 – Advance Packaging Materials business process re-engineering recommendations and monthly updates

MPD08 – Advance Packaging Materials Tiger Team facilitation, as required

MPD09 – Advance Packaging Materials monthly executive presentation material update

3.1.4 Advance Packaging Material Training Support (MP4) The contractor shall:

1. Identify stakeholder training requirements and manage in the organization knowledge planning tool. Requirements shall be organized in a work breakdown structure (WBS) identifying the general to specific training needs of each organization element,
2. Develop draft training requirements by gathering organization requirements from stakeholder representatives and tailoring these to fit implementation schedule
3. Present draft training requirements data in final format to the PM for review and approval
4. Support the presentation of training requirements to senior stakeholder leadership for implementation
5. Develop training materials and scenarios for each Spiral “use case”
6. Manage and support the development of training schedules for all stakeholder personnel
7. Provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to this activity track task.
8. Provide on-site training support during implementations

Advance Packaging Materials MP4 Deliverables shall include but not be limited to

MPD10 – Advance Packaging Materials training requirements (each baseline), and monthly update

3.1.5 MP5 Meeting Support. The contractor shall conduct and participate in conferences, reviews and meetings to be

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held at either Contractor or Government facilities. The Contractor shall make facilities available for Government-only meetings during all conferences, meetings and reviews held at Contractor facilities.

The PM will conduct iterative reviews with the PMT government and contractor members. The contractor shall be guided by PM decisions for enhancing, developing, and supporting business process and system functions, design objectives, business processes, and interfaces.

The contractor team will attend (in person, by VTC or by conference phone as directed by the PM) the following meetings, at a minimum; the meetings will be called by the PM. Meetings will adhere to a pre-defined agenda to minimize the time required and to insure each meeting targets / addresses key project issues:

1. Project / Task Kick-off Meeting
2. Weekly Project Status Meetings (on-site, by Teleconference, by VTC)
3. Monthly Status Briefing
4. Bi-Monthly Documentation reviews
5. User Requirements Clarification Meetings
6. Deliverable Completion/Signoff
7. Project Completion/Signoff

In addition, the contractor shall attend, if requested, the following meetings or significant portions thereof:

8. PMT Iterative Reviews. As part of this review, the contractor shall provide a Project Management Plan (in Microsoft Project file format) describing the time and estimated work associated with all line items in a particular task order. The Project Management Plan will be maintained and made available to the government as updates along with weekly project status meetings.
9. Meetings/interviews with government personnel. The contractor shall contact, interview, or meet with government personnel as necessary to accomplish all line items. The government PMT members will serve as the primary points of contact for any contact with government personnel. The PM will direct the contractor to appropriate individuals or organizations as necessary. The contractor shall provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to an activity track task. The AARs will identify subject (what), responsible party (who), date due (when), and any difficult or controversial issues or problems and resolutions. Suggestions and recommendations will be presented in draft and final reports in Microsoft PowerPoint format. The contractor shall present the prior weeks AARs and explain weekly project status in Microsoft PowerPoint file/presentation briefing format and allow for questions and answers.

3.1.6 MP6 Monthly Invoice Status Reports. The Contractor shall provide a Monthly Invoice Status Report as set forth below. Report shall include technical accomplishments and expenditures (labor hours, travel, and material) and a list of personnel working the task order by paragraph. Monthly Invoice Status Reports are due to the Task Order Manager (TOM) by the 10th of each month.

3.2 The contractor shall deliver Assessment Analysis and Management (AAM) services as required below. The contractor shall identify and analyze commercial and Government Advance Packaging Materials solutions that have been or are: 1) currently being researched, 2) have been researched in the past, or 3) available for use. The Assessment results will adequately provide detail of each Advance Packaging Materials system and its respective use case as to facilitate objective comparison with potential NECE use. Additionally, during the Assessment stage the contractor shall recommend, collect, review, analyze, and validate baseline functional requirements as necessary to integrate a Advance Packaging Materials system into a logical business component

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3.2.1 Advance Packaging Material Assessment methodology development and support (AAM1) The contractor shall apply the NEPO approved methodology to:

Assess and compare business process requirements and automatic identification technologies (AIT) read/write and other operating characteristics in relation to packing materials physical properties in order to select the most effective to support TAV and ITV solutions. This methodology must support establishment and management of a baseline for each value added solution set identified. As these solution set capabilities (and limitations) are identified and approved, they shall go under configuration management control. Each solution set shall have an expected lifespan identified, with expected availability and termination values. The methodology will support planning for continuing improvement and development to enhance, extend, and/or replace these solutions in future generations or versions. AIT technologies to be assessed include but are not limited to: passive low frequency (LF) RFID, passive high frequency (HF) RFID, passive ultra-high frequency (UHF) RFID, Ultra-wide band (UWB) RFID, Semi-active RFID technologies, Surface acoustic wave (SAW), Active RFID technologies, and GSM and satellite communications.

Advance Packaging Materials AMM1 Deliverables shall include but not be limited to :

AAMD01 – Advance Packaging Materials Assessment Methodology documentation and monthly update

AAMD02 – Advance Packaging Materials Assessment of identified solution sets and their baselines

3.2.2 Advance Packaging Material Requirements development support (AAM2) The contractor shall apply the NEPO approved approach to:

1. Provide requirements analysis; business process analysis; software requirements specification preparation; enterprise system analysis as need to support the requirements gathering process

2. Determine business process and systems requirements

3. Coordinate and facilitate stakeholder meeting schedules and meetings;

4. Conduct requirements definition interviews and fact gathering meetings as required.

5. Provide After Action Reports (AARs) after each contact where a decision or follow-up action is required.

6. Develop use case diagrams and analysis

7. Identify commercial and government TAV AIT capabilities currently being researched, have been researched in the past, and/or are available for use

Advance Packaging Materials AMM2 Deliverables shall include but not be limited to :

AAMD03 – Advance Packaging Materials Requirements Identification and Management Plan and monthly update

AAMD04 – Advance Packaging Materials Use case diagram documentation and monthly update

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3.2.3 Advance Packaging Material scientific and engineering assessment Support (AAM3) The contractor shall apply the NEPO approved approach to:

1. Establish intended military use environments,
 - a. For each environment conduct physics assessment including but not be limited to:
 - i. Full Faraday Cycle Analyses (FFCA)
 - ii. RF Path Loss Contour Mapping
 - b. Identify expected infrastructure and dependent environments including but not limited to: electrical and information networks, data interfaces by information system, required operational capabilities, and expected operational environments
2. Identify deployment topology
3. Identify RFID Pilot Architecture (RPA) for each Spiral
4. Identify baseline relating existing/immanently emerging DON/DoD initiatives
5. Identify technology baseline capabilities for each Spiral solution set

Advance Packaging Materials AMM3 Deliverables shall include but not be limited to :

AAMD05 – Advance Packaging Materials technology assessment plan and monthly update

3.3 Contractor shall deliver Advance Packaging Materials Feasibility Analysis and Management (FAM) services as required below. Present the Advance Packaging Materials IPT with the potential use of a Advance Packaging Materials system in NAVFAC and NECE business processes. The Contractor shall develop and apply a methodology to analyze and compare NAVFAC/NECE Advance Packaging Materials use case functional requirements against existing or prototypical Advance Packaging Materials systems. This shall: 1) provide a quantifiable demonstration of Advance Packaging Materials solution set capabilities that provide valued benefits to current business processes; 2) ensure participating NAVAC/NECE organizations and units understand and can support efforts associated with further design, development, and implementation; and 3) include requirement introduction and migration approach in relation to identified business process

3.3.1 Advance Packaging Material Feasibility analysis and support (FAM1) The contractor shall apply the NEPO approved approach to:

1. Leverage the results from AAM activities. At a minimum, add and/or enhance performance and cost dimensions to the AAM methodology.
2. Provide quantifiable demonstrations of solution set capabilities
3. Conduct feasibility assessment interviews and fact gathering meetings as required.
4. For each solution set establish initial design, development, migration, and implementation specifications
5. Develop and document detailed costs for each olution set based on established specifications

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6. Develop feasibility in terms of all known costs, technical capabilities, and business process benefits by relevant use case and workflow

7. Provide After Action Reports (AARs) after each contact where a decision or follow-up action is required.

Advance Packaging Materials FAM1 Deliverables shall include but not be limited to:

FAMD01 – Advance Packaging Materials feasibility analyses and monthly update

3.3.2 Advance Packaging Material Scientific and Engineering Feasibility Support (FAM2) The contractor shall apply the NEPO approved approach to:

1. Review and revise as necessary the physics of tag and reader performance including but not limited to Full Faraday Cycle Analyses (FFCA), RF Path Loss Contour Mapping, as well as another propagation and loss analyses as necessary

2. For designated military use environments,

a. For each environment conduct physics assessment including but not be limited to:

i. Full Faraday Cycle Analyses (FFCA)

ii. RF Path Loss Contour Mapping

b. Identify existing infrastructure and dependent environments including but not limited to: electrical and information networks, data interfaces by information system, required operational capabilities, and expected operational environments

3. Identify and measure propagation and read rates

4. Measure “tag” performance by product and location

5. Measure intentional and unintentional interferers for all intended reader site locations

Advance Packaging Materials FAM2 Deliverables shall include but not be limited to :

FAMD02– Advance Packaging Materials feasibility technology plan and monthly update

FAMD03 - Advance Packaging Materials initial solution set specifications

3.4 The contractor shall deliver Advance Packaging Materials Prototype Support (PS) services as required below. During the Prototype stage, a pre-production, functioning Advance Packaging Materials system will be developed to evaluate the design, performance, and production potential in the NAVFAC/NECE business environment. This will represent the first attainment of the minimum capability to effectively employ a Advance Packaging Materials system based on the requirements and characteristics defined in the assessment and feasibility stages.

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3.4.1 Advance Packaging Material PS1 Prototype stage storyboarding support The contractor shall:

1. Develop storyboards for each spiral, including significant variants, to demonstrate anticipated prototype execution by use case and workflow
2. Engage stakeholders in iterative clarification reviews of the storyboards until spiral prototype specifications are accepted as complete and approved

Advance Packaging Materials PS1 Deliverables shall include but not be limited to:

PSD04 – Advance Packaging Materials Spiral storyboard materials and monthly updates

PSD05 - Advance Packaging Materials Storyboard presentations, as required

3.4.2 Advance Packaging Material PS2 Prototype stage methodology development and support The contractor shall apply the NEPO approved approach to:

1. Leverage results from feasibility analyses, including but not limited to: costs, sources of supply, technical capabilities, business process requirements
2. Provide detailed design specifications preparation; prototyping; software configuration and tailoring analysis; systems analysis; systems integration analysis; and enterprise system analysis as needed to support the prototype process
3. Evaluate Spiral requirements against seven key dimensions: platform requirements, user interface (UI) requirements, workflow definitions, device support, integration requirements, data distribution, service level requirements
4. Develop complete working prototypes of approved Spiral solution sets
5. Baseline tag and reader input and output data definitions and schemas, and business process rules and process flows.

Advance Packaging Materials PS2 Deliverables shall include but not be limited to:

PSD06 – Advance Packaging Materials Spiral Prototype evaluations and monthly updates

PSD07 – Advance Packaging Materials Working Prototypes as required

PSD08 – Advance Packaging Materials Spiral System Architecture and topology for Pilot and Full Implementations

PSD09 - Advance Packaging Materials Detailed Pilot and Full implementation plans and timeline for each Spiral

3.4.3 Advance Packaging Material PS3 Prototype stage migration management support The contractor shall apply the NEPO approved approach to:

1. Coordinate support for providing data sets required for testing and training line items

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2. Coordinate support required to develop, validate and implement extraction, transformation, and load (ETL) scripts for all requirements including but not limited to: spiral testing and training scenarios in each stage with all government systems and commercial information systems
3. Identify middleware requirements and alternatives
4. Coordinate and facilitate stakeholder and solution providers' comparative analysis activities of analogous legacy and new functionality as well as a test plan for validating final migration scripts.
5. Coordinate the development and update of a Migration Plan (MP) for spiral prototype, pilot, and full implementation efforts
6. Provide After Action Reports (AARs) after each contact where a decision or follow-up action relates to this activity track task.

Advance Packaging Materials PS3 Deliverables shall include but not be limited to:

PSD10 – Advance Packaging Materials Migration Plan (MP) and monthly update

3.4.4 Advance Packaging Material PS4 Prototype stage bill of material (BOM) development The contractor shall apply the NEPO approved approach to:

1. Develop Detailed Spiral “bill of materials” with sources of supply and service providers for prototype, pilot and full implementation stages.
2. Acquire and or support the acquisition of BOM items required for pilot implementations, per approved pilot implementation plan

Advance Packaging Materials PS4 Deliverables shall include but not be limited to:

PSD11 – Advance Packaging Materials Prototype BOM development plan and monthly update

PSD12 - Advance Packaging Materials Execution of approved Prototype BOM activities

3.4.5 Advance Packaging Material PS5 Prototype stage Umbrella System integration The contractor shall apply the NEPO approved approach to:

1. Provide system integration analysis, systems analysis, and system capability validation.
2. Identify required Umbrella System integration points
3. Identify alternative integration and middleware solutions
4. Conduct and complete approved integration activities.
5. Document findings and results for submittal to and approval by the PM

Advance Packaging Materials PS5 Deliverables shall include but not be limited to:

PSD13 – Advance Packaging Materials Prototype Integration Plans and monthly update

PSD14 - Advance Packaging Materials Execution of Prototype integration activities

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4.0 Intellectual Property and Government Furnished Information

4.1 Intellectual Property. The United States Government funds line items in this contract. All intellectual property generated and/or delivered pursuant to this contract agreement will be subject to appropriate federal acquisition regulations which entitle the Government to unlimited license rights in technical data and computer software developed exclusively with Government funds, a nonexclusive "paid-up" license to practice any patentable invention or discovery made during the performance of this task order, and a "paid-up" nonexclusive and irrevocable worldwide license to reproduce all works (including technical and scientific articles) produced during task orders under this contract.

The Contractor shall provide a copy of ALL source code prior to receiving the final payment of task orders under this contract. All documented procedures, customized software and data compiled or information developed for task orders under this contract becomes the property of the US Government as it is completed. At the completion of all task orders under this contract, the Contractor shall return any items that were provided by the Government to accomplish the particular task order (TO).

4.1 GOVERNMENT FURNISHED INFORMATION. Government Furnished Information (GFI) is for the Contractor's exclusive use during the period of performance of the Contract. These typically will include documents produced or owned by the Government including systems documentation, systems manuals, operation procedures, standards, specifications or guidelines governing development of deliverables, manuals and related materials. Additional government furnished material may consist of database summaries and existing mainframe file structures. This additional government furnished documentation will be discussed and coordinated during PMT coordination meetings. Specific project documentation shall be used as provided, or updated with PM approval, during the period of performance. These documents include but are not limited to:

1. MIL-STD-129P w/Change 3
2. United States Navy Radio Frequency (RFID) Implementation Plan
3. DOD AT&L Memoranda on RFID
4. DFAR Clause #252.211-7006
5. NXR⁴L System and Project Documentation
6. Implementation Planning Workbook (IPW) template

4.2 Security Requirements DoD Information Assurance Certification and Accreditation Process (DIACAP) establishes the DoD Information Assurance (IA) Certification and Accreditation (C&A) process for authorizing the operation of DoD information systems consistent with the Federal Information Security Management Act (FISMA), DoD Directive (DoDD) 8500.1, and DoD Directive 8100.1.

In order to ensure Application Certification and Accreditation can be achieved, all contractors must adhere to DIACAP policy. If a contractor finds a situation where a policy cannot be adhered to, the contractor is required to consult with the NAVFAC Corporate Information Systems Security Manager (CISSM) and Designated Accreditation Authority (DAA) to determine level of risk, identify compensating controls, and decide if a policy exception will be allowed prior to development of the application solution.

5.0 GOVERNMENT FURNISHED RESOURCES

5.1 Temporary government space may be made available, on a case-by-case basis, to the contractor in order to successfully complete requisite onsite document reviews, attend meetings, make site visits, and collect information

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that can not normally be transported from the government site to the contractor's facilities.

5.2 All Government provided products including hardware, software, supplies, and facilities will remain the property of the Government and shall be returned upon completion of the support services. All hardware, software, supplies, documented procedures, customized hardware and software, and application/software enhancements developed or acquired under the task orders of this contract shall become the property of the US Government. The contractor shall return any items that were used during the performance of these requirements by the end of the performance period.

6.0 NAVY MARINE CORPS INTRANET

The desktop environment currently being used to run the applications consists of IBM compatible microcomputers that interface to the mainframe using a web interface. All current and future development / migration of Navy software systems must be tested and certified to properly function and operate within the NMCI environment. As a result, all software development and modification resulting from the work accomplished under this contract must be capable of being accredited and certified according to Navy and NMCI policy and directives.

7.0 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT) SECTION 508 ACCESSIBILITY STANDARDS DETERMINATION OF APPLICABILITY

All Electronic and Information Technology (EIT) procured through this Task must meet the applicable accessibility standards at 36 CFR 1194, unless an agency exception to this requirement exists. 36 CFR 1194 implements Section 508 of the Rehabilitation Act of 1973, as amended, and is viewable at <http://www.access-board.gov/508.htm>

8.0 SECURITY

Work performed under this task does not required access to Classified Material however all Contractor personnel working under this task order must be US citizens. At the discretion of the Task Order Manager, the Contractor shall complete and sign a "Conflict Of Interest and Non-Disclosure Statement" form, which prohibits contractor personnel from disclosing to any person any contractual information to which they may have access on this Task Order.

9.0 ADMINISTRATIVE CONSIDERATIONS.

Hours of Work. The Contractor shall conform to the Client agency's core business hours. The Contractor shall provide coverage at the place(s) of performance from 0700 to 1700, Monday through Friday with the exception of Federal holidays.

9.1 Place of Performance. NAVFACENCOMHQ, NFELC, NCBC Gulfport, NECE, and Contractor Facility unless otherwise agreed to as part of a meeting place or as required for the performance of a task element.

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9.2 Period of Performance. The period of performance for the base contract shall be from date of Task Order award through the twelve months following the award date. There shall be four one year options, if exercised, added to the task order period of performance.

10.0 TRAVEL.

Travel and per diem and/or local travel will be scheduled as necessary to satisfy the performance requirements identified in Section 3.0 of this document.

Contractor travel shall be in accordance with the Joint Travel Regulations (JTR). The PM will approve all trips via a Travel Request Form (in client format) or via a Work Order and shall be acknowledged by the Contracting Officer. Within three days of contractor return from travel, a travel report (in contractor format) shall be submitted by the contractor to the PM OR the Contractor and the PM may agree to have the Contractor include the travel report information in the appropriate Monthly Technical Report and Monthly Financial Report, submitted by the Contractor to the Contracting Officer

11.0 TASK ORDER MANAGER

Matthew J. Meyer, Assistant CIO for the NECE, referred to throughout Section C as the Project Manager (PM), NAVFACENGCOM 1322 Patterson Ave SE Suite 1000 Washington Navy Yard, D.C. 20374-5065 Tel: 202-685-9288
Email: matthew.meyer@navy.mil

Deputy Project Managers may be designated by the Task Order Manager for individual task orders issued under this contract. Designated Deputy Project Managers, acceptable to the Contracting Officer, have full PM and Task Order Manager authority for the task orders for which they are designated.