

**UNITED STATES TRANSPORTATION
COMMAND (USTRANSCOM)**

**Contract HTC711-10-D-S002, 8 July 2009
With Modifications P00001 – P00011
and Delivery Orders
0001 – 0008**

Analysis and Mobility Platform

**Released under USTRANSCOM FOIA 12-72
Full Release**

SOLICITATION, OFFER AND AWARD			1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)		RATING	PAGE OF PAGES 1 50	
2. CONTRACT NO. HTC711-10-D-8002		3. SOLICITATION NO. HTC711-09-R-0038		4. TYPE OF SOLICITATION () SEALED BID (FB) (X) NEGOTIATED (RFP)		5. DATE ISSUED 08 Jul 2009	
6. REQUISITION/PURCHASE NO.		7. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		8. ADDRESS OFFER TO (If other than Item 7) See Item 7		CODE	
TEL: CONTACT BUYER FAX: CONTACT BUYER		TEL: FAX:					
NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder"							
SOLICITATION							
9. Sealed offers in original and <u>3</u> copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in <u>Bldg 1600</u> until <u>03:00 PM</u> local time <u>07 Aug 2009</u> (Hour) (Date)							
CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.							
10. FOR INFORMATION A NAME CALL: JOE PEREYRA		B. TELEPHONE (Include area code) (NO COLLECT CALLS) 618-229-4973		C. E-MAIL ADDRESS joe.pereyra@ustrancom.mil			
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OFFER (Must be fully completed by offeror)							
NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period							
12. In compliance with the above, the undersigned agrees, if this offer is accepted within <u>90</u> calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule							
13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52.232-8)				Net 30 Days			
14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):				AMENDMENT NO.		DATE	
				0001		Aug 4, 2009	
15A. NAME AND ADDRESS OF OFFEROR		CODE: 306L5 BBN Technologies Corp. 10 Moulton St. Cambridge, MA 02138		FACILITY		16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print) Michael C. Neff Sr. Manager, Contract Relations	
15B. TELEPHONE NO 703 284-1290 (Include area code)		15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE <input type="checkbox"/>		17. SIGNATURE <i>Michael C Neff</i>		18. OFFER DATE 9/15/2009	
AWARD (To be completed by Government)							
19. ACCEPTED AS TO ITEMS NUMBERED		20. AMOUNT \$3,250,000.00 EST		21. ACCOUNTING AND APPROPRIATION			
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION <input type="checkbox"/> 10 U.S.C. 2304(c)(1) <input type="checkbox"/> 41 U.S.C. 253(c)(1)				23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)		ITEM	
24. ADMINISTERED BY (If other than Item 7) See Item 7		CODE		25. PAYMENT WILL BE MADE BY DEAS-LINESTONE F67100 ATTN: DEAS-11-JAQBDD 27 ARKANSAS RD LINESTONE ME 04751-6216		CODE F67100	
26. NAME OF CONTRACTING OFFICER (Type or print) CAREY N. GROPP TEL: 618-229-2469 EMAIL: carey.gropp@ustrancom.mil				27. UNITED STATES OF AMERICA <i>Carey N. Gropp</i> (Signature of Contracting Officer)		28. AWARD DATE 01-Oct 2009	
IMPORTANT - Award will be made on this Form or on Standard Form 26, or by other authorized official written notice.							

Section A - Solicitation/Contract Form

ORDERING

In accordance with FAR 52.216-18, the United States Transportation Command shall be the only Government activity allowed to order off this Schedule.

In accordance with FAR 52.216-22, the quantity of services for this contract is established at \$2,500.00 minimum and \$13M maximum. The total ceiling value for this contract is \$13M.

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0001	Base Year - Labor LH Labor, in accordance with each individual Task Order Level Performance Work Statement (PWS), for the period of 1 Oct 09 - 30 Sep 10. FOB: Destination SIGNAL CODE: A	3,202,000	Lot	\$1.00	\$3,202,000.00 EST
TOT MAX PRICE					\$3,202,000.00 EST

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0002	Base Year - Travel COST Travel, in accordance with the Federal Travel Regulations, for the period of 1 Oct 09 - 30 Sep 10. Amount to be determined on an individual task order basis. FOB: Destination SIGNAL CODE: A	30,000	Lot	UNDEFINED	\$30,000.00
MAX COST					\$30,000.00 (EST.)

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0003	Base Year - Other Direct Costs COST Allowable Other Direct Costs for the period of 1 Oct 09 - 30 Sep 10. Amount to be determined on an individual task order basis. Note: General and Administrative overhead charges will not be accepted or paid for approved ODC purchases. FOB: Destination SIGNAL CODE: A	18,000	Lot	UNDEFINED	\$18,000.00
MAX COST					\$18,000.00 (EST.)

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1001 OPTION	Option 1- Labor LH Labor, in accordance with each individual Task Order Level Performance Work Statement (PWS), for the period of 1 Oct 10 - 30 Sep 11. FOB: Destination SIGNAL CODE: A	3,202,000	Lot	\$1.00	\$3,202,000.00 EST
TOT MAX PRICE					\$3,202,000.00 EST

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1002 OPTION	Option 1 - Travel COST Travel, in accordance with the Federal Travel Regulations, for the period of 1 Oct 10 - 30 Sep 11. Amount to be determined on an individual task order basis. FOB: Destination SIGNAL CODE: A	30,000	Lot	UNDEFINED	\$30,000.00
MAX COST					\$30,000.00 (EST.)

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1003 OPTION	Option 1 - Other Direct Costs COST Allowable Other Direct Costs for the period of 1 Oct 10 - 30 Sep 11. Amount to be determined on an individual task order basis. Note: General and Administrative overhead charges will not be accepted or paid for approved ODC purchases. FOB: Destination SIGNAL CODE: A	18,000	Lot	UNDEFINED	\$18,000.00
MAX COST					\$18,000.00 (EST.)

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
2001 OPTION	Option 2 - Labor LH Labor, in accordance with each individual Task Order Level Performance Work Statement (PWS), for the period of 1 Oct 11 - 30 Sep 12. FOB: Destination SIGNAL CODE: A	3,202,000	Lot	\$1.00	\$3,202,000.00 EST
TOT MAX PRICE					\$3,202,000.00 EST

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
2002 OPTION	Option 2 - Travel COST Travel, in accordance with the Federal Travel Regulations, for the period of 1 Oct 11 - 30 Sep 12. Amount to be determined on an individual task order basis. FOB: Destination SIGNAL CODE: A	30,000	Lot	UNDEFINED	\$30,000.00
MAX COST					\$30,000.00 (EST.)

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
2003 OPTION	Option 2 - Other Direct Costs COST Allowable Other Direct Costs for the period of 1 Oct 11 - 30 Sep 12. Amount to be determined on an individual task order basis. Note: General and Administrative overhead charges will not be accepted or paid for approved ODC purchases. FOB: Destination SIGNAL CODE: A	18,000	Lot	UNDEFINED	\$18,000.00
				MAX COST	\$18,000.00 (EST.)

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
3001 OPTION	Option 3 - Labor LH Labor, in accordance with each individual Task Order Level Performance Work Statement (PWS), for the period of 1 Oct 12 - 30 Sep 13. FOB: Destination SIGNAL CODE: A	3,202,000	Lot	\$1.00	\$3,202,000.00 EST
				TOT MAX PRICE	\$3,202,000.00 EST

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
3002 OPTION	Option 3 - Travel COST Travel, in accordance with the Federal Travel Regulations, for the period of 1 Oct 12 - 30 Sep 13. Amount to be determined on an individual task order basis. FOB: Destination SIGNAL CODE: A	30,000	Lot	UNDEFINED	\$30,000.00

MAX COST \$30,000.00 (EST.)

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
3003 OPTION	Option 3 - Other Direct Costs COST Allowable Other Direct Costs for the period of 1 Oct 12 - 30 Sep 13. Amount to be determined on an individual task order basis. Note: General and Administrative overhead charges will not be accepted or paid for approved ODC purchases. FOB: Destination SIGNAL CODE: A	18,000	Lot	UNDEFINED	\$18,000.00

MAX COST \$18,000.00 (EST.)

CONTRACT MINIMUM/MAXIMUM QUANTITY AND CONTRACT VALUE

The minimum quantity and contract value for all orders issued against this contract shall not be less than the minimum quantity and contract value stated in the following table. The maximum quantity and contract value for all orders issued against this contract shall not exceed the maximum quantity and contract value stated in the following table.

MINIMUM QUANTITY	MINIMUM AMOUNT	MAXIMUM QUANTITY	MAXIMUM AMOUNT
	\$2,500.00		\$13,000,000.00

CLIN DELIVERY/TASK ORDER MINIMUM/MAXIMUM QUANTITY AND CLIN ORDER VALUE

The minimum quantity and order value for the given Delivery/Task Order issued for this CLIN shall not be less than the minimum quantity and order value stated in the following table. The maximum quantity and order value for the given Delivery/Task Order issued for this CLIN shall not exceed the maximum quantity and order value stated in the following table.

CLIN	MINIMUM QUANTITY	MINIMUM AMOUNT	MAXIMUM QUANTITY	MAXIMUM AMOUNT
0001		\$		\$
0003		\$		\$
1002		\$		\$
1003		\$		\$
2001		\$		\$
2002		\$		\$
3002		\$		\$
3001		\$		\$
3003		\$		\$
0002		\$		\$
1001		\$		\$
2003		\$		\$

Section C - Descriptions and Specifications

CONTRACT LEVEL PWS**CONTRACT LEVEL PERFORMANCE WORK STATEMENT****ANALYSIS OF MOBILITY PLATFORM****22 Jun 2009****1.0 DESCRIPTION OF SERVICES**

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses. Analysts use AMP to dynamically configure component interactions and integrate additional models in order to obtain an end-to-end simulation of the Defense Transportation System (DTS). AMP allows users to rapidly set up, tailor, and extend transportation and logistics models to support programmatic analysis, war games and exercises, execution, and costing functions. The current suite of models, the AMP Federation, includes the Model for Inter-theater Deployment by Air and Sea (MIDAS), the Enhanced Logistics Intra-theater Support Tool (ELIST) and the Aerial Port of Debarkation (APOD) Model. The "APOD Model" name is transitioning to "Analysis of Mobility Platform Port Analysis Tool (AMP-PAT)." The Joint Planning and Execution Community (JPEC), OSD, Joint Staff, Combatant Commands, CAA and USTRANSCOM and its Transportation Component Commands (TCCs) are the primary AMP Federation users.

The APOD Model (AMP-PAT) is an analysis and decision support tool to assist Combatant Command planners, Joint Staff, Office of the Secretary of Defense (OSD), Center for Army Analysis (CAA), and USTRANSCOM analysts in refining transportation enabler requirements during Time-Phased Force and Deployment Data (TPFDD) development processes and to provide throughput analysis for airports and seaports. The APOD Model (AMP-PAT) is used to support throughput analysis in a stand-alone mode or as a federate of AMP, running dynamically with MIDAS and ELIST. The APOD Model (AMP-PAT) includes the following six tools:

- Airport Rapid Analysis Tool (ARAT)
- Airport Throughput Tool (ATT)
- Airport Simulation Tool (AST)
- Seaport Rapid Analysis Tool (SRAT)
- Seaport Throughput Tool (STT)
- Seaport Simulation Tool (SST)

1.2 Scope. The contractor shall plan for all general tasks identified in this Performance Work Statement (PWS) required to maintain, support and enhance AMP within the context of the AMP Federation of models. Note: Any reference to AMP within the document includes the APOD Model (AMP-PAT) Tool. Contractor estimates and timelines shall be determined based on the specific tasks and deliverable due dates specified in each individual task order (TO). The contractor shall coordinate with the AMP Program Manager (PM) to ensure that all activities are well synchronized and integrated with other USTRANSCOM M&S efforts, and that replicated or overlapping efforts do not occur.

1.3 General Tasks. Each TO shall exist within the scope of the following task areas. Specific tasks shall be specified and performed under individual TOs.

- Contract Management
- Studies Support
- Requirements Definition
- Design and Development
- System Interface Support
- Maintenance

System Administration
Information Assurance
Contingency Operations
Configuration Management
Enhancements (specific tasks specified and performed under individual TOs)

1.3.1 Task Area 1 - Contract Management. This task area shall encompass overall contract management to include administrative, clerical, documentation, and related functions. The contractor shall designate an individual from the contractor's resources to be the focal point for all contract management communications with USTRANSCOM, and to be responsible for ensuring successful accomplishment of PWS tasks. Point of contact (POC) information, to include name, title, phone number, and email address, are to be provided to the Contracting Officer at the Post-Award Conference. In support of this task, the contractor may be requested to provide documents such as Task Order Management Plans (TOMP), Monthly Status Reports (MSR), Trip Reports, In-Process Reviews (IPR), Integrated Management Schedules (IMS), Contract Summary Reports (CSR), and Variance Reports. The contractor may also be requested to provide demonstration and teleconference support.

1.3.2 Task Area 2 - Studies Support. The contractor shall support planning and execution of analytical studies. This may require software modifications, analysis of study requirements and products, and on-site support. As appropriate to the specific study, the contractor may be required to work with MIDAS, ELIST, and other model development contractors to define upgrades and enhancements to software of AMP, MIDAS, ELIST, and other models, and coordinate release and testing schedules. The contractor also may be required to modify the AMP Federate and enhance the graphical user interfaces (GUI) and/or charts. In support of this requirement, the contractor may be required to define an approach to integrate the Federation, coordinate integration for the Federation, conduct integration and testing, and perform trouble-shooting to repair or modify software problems identified during model execution.

1.3.3 Task Area 3 - Requirements Definition. The Functional Manager will provide a prioritized list of functional requirements to the PM, who then will provide these requirements to the contractor. The contractor shall coordinate and integrate the technical expertise required to construct the system and associated databases (if applicable), and support field testing in a limited operational environment. To implement Federation-level requirements, the contractor may be required to coordinate with developers of other Federation systems as described in the Government-provided Memoranda of Agreement between AMP and these other systems.

1.3.4 Task Area 4 - Design and Development. The contractor shall design, develop, and test the AMP infrastructure and GUI to support Federation integration efforts. The design and development shall support future additions or changes to existing federate systems. Activities may include software development, software and system testing, and software releases. Commercial best practices appropriate to the AMP functional requirements shall be used to develop and test new system capabilities. For system development, the contractor may be required to:

- a) Design, code, test, document, and support full system integration of software and software releases (including software changes), assessments and prototypes supporting application development.
- b) Propose release content and schedules based upon the known Government requirements and priorities.
- c) Provide necessary models and simulations to support the verification and validation.
- d) Provide software size, cost, and schedule estimates, and include justification and confidence level behind those estimates.
- e) Deliver any developed corporate applications software artifacts to the PMO.

1.3.5 Task Area 5 - System Interface Support. The contractor shall provide maintenance, development, and modification of AMP system interfaces.

1.3.6 Task Area 6 - Maintenance. The contractor shall provide software and system maintenance for AMP and APOD model (AMP-PAT). The contractor may be required to develop or update operational, system, and technical architecture documents; the Logical Data Model, to include the addition of new data elements; and provide data structure and administration support. The contractor also shall provide necessary support, to include documentation and advice to meet the USTRANSCOM security and technical requirements of the USTRANSCOM Execution and Effects Review process.

1.3.7 Task Area 7 - System Administration (SA). The contractor shall provide on-site SA support to USTRANSCOM SAs for the system. This may include model user training and the following activities:

- a) Plan, schedule and accomplish installation of new or modified hardware and software, to include system patches, updates, and enhancements for the system servers. Troubleshoot AMP installation problems.
- b) Support installation, optimization, backup, recovery, modification and upgrade of system servers and software. Debug AMP software and test software releases.
- c) Monitor operational node performance and recommend possible improvements.
- d) Accomplish routine system maintenance functions such as rebooting servers, running backups and coordinating hardware repair/replacement.
- e) Troubleshoot and resolve system performance problems for system servers.
- f) Provide technical support for system reengineering efforts.
- g) Work with Government security and networking personnel on system-related issues.
- h) Support the Execution and Effects Review activities and required updates.

The contractor shall update the system administration manual to support the system that includes account administration; server installation, configuration, and administration; software installation; obtaining, generating, and updating reference files, shared drives, and web pages; troubleshooting and resolving operating system conflicts; maintaining logs; and creating reports, as required.

1.3.8 Task Area 8 - Information Assurance (IA). The contractor shall establish an IA Program to implement and sustain appropriate IA management, operational, and technical controls and processes, as required, to ensure compliance with DOD and Chairman Joint Chiefs of Staff (CJCS) requirements, and Joint Task Force – Global Network Operations (JTF-GNO) taskings. The contractor may be required to submit for Government approval an overarching security plan that describes their strategy for implementation of IA and Industrial Security requirements throughout the life of the contract. The contractor shall ensure that information system security engineering (ISSE) is employed to develop or modify any IA component of the system architecture. Such modifications shall be made in compliance with all analogous or interfacing IA component(s) of the GIG Architecture and will be designed to make maximum use of the DOD enterprise IA capabilities and services. The contractor shall also support periodic Government inspections and reviews to ensure compliance with DOD IA requirements throughout the contract performance period. Contractor IA Program capabilities shall include, but not be limited to, processes and procedures for vulnerability management, patch management, incident response, Information Condition (INFOCON), system and application security, configuration management, risk management, and situational awareness. Activities may include IA design, security testing, and DOD IA Certification and Accreditation Process (DIACAP). The contractor shall provide appropriate skilled and certified IA personnel resources to implement and manage the IA program in accordance with the applicable provisions of DODD 8570.01.

1.3.9 Task Area 9 - Contingency Operations. The Continuity of Operations Plan (COOP) defines the methodology for providing a back-up capability for system users in the event that the primary capability is not

available. To support this task area, the contractor may be required to provide a Contingency Operations Document (contractor specific) that aligns with the Government COOP. The contractor's Contingency Operations Document shall include SA and data storage support procedures at the recovery site. The hardware and software for the site will be Government-furnished and will include all maintenance and licenses. Commercial Off-the-Shelf (COTS) software versions will be the same as the versions used in the production environment.

1.3.10 Task Area 10 - Configuration Management (CM). This support is required to meet the DIACAP and USTRANSCOM technical and security requirements. The CM process facilitates orderly configuration identification, change identification and control, status reporting, and configuration auditing of product information for such beneficial purposes as to revise capability and improve performance, reliability, or maintainability; extend life; reduce cost; reduce risk and liability; or correct defects. CM ensures that changes take place in an identifiable and controlled process and do not adversely affect any properties of the other system or interfaces. Activities may include developing a Configuration Management Plan (CMP), identifying hardware or software configuration items, providing an automated configuration management tool to assist in change control, evaluating change requests, participating in configuration control boards, conducting configuration status accounting and audits, and improving CM processes.

1.3.11 Task Area 11 - Enhancements. The contractor shall provide new software and enhancements to AMP. Enhancements shall be identified on a task order basis. Projected enhancements are included in Appendix D.

1.4 Deliverables. Deliverables shall be identified on each individual task order.

2.0 SERVICE DELIVERY SUMMARY (SDS). An SDS shall be identified on each individual task order.

2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Unless otherwise specified under an individual task order, final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table within the individual task order.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). GFE/GFI, if any, shall be specified on each individual task order.

3.2 Facilities. Facilities, if any, will be specified on each individual task order.

4.0 GENERAL INFORMATION

4.1 Phase-In Transition. The Phase-In Transition period is defined as the first 45 days of contract performance. The contractor shall negotiate a good faith plan with the incumbent contractor to determine the nature and extent of Phase-In Transition to effect an orderly and efficient transfer of contract responsibility and operations. During the Phase-In Transition period, the contractor shall prepare to assume full responsibility for all areas of operations in accordance with the terms and conditions of the contract. During the phase-in period, the contractor shall:

- Recruit and hire necessary personnel.
- Submit appropriate suitability/clearance forms.
- Submit appropriate systems access forms.
- Complete process to receive a building identification badge.
- Develop and submit any required deliverables.

Attend post-award meetings.
 Attend Government-provided training (security, Education Training and Awareness Program (ETAP), etc.).
 Accomplish any necessary training to support the services listed in this PWS.

During this period, the successor's personnel will be permitted to observe operations covered by this contract so as not to interfere with operations. The Government will make any facilities and equipment that will be turned over to the contractor available for observation.

4.2 Phase-Out Transition.

4.2.1 Transition Planning. The contractor shall provide the Government with a transition plan that describes how the contractor will convey all open work and associated materials and assets in their possession to the Government.

4.2.2 Continuity of Service. The contractor shall ensure the continuity of service while implementing its transition plan for all affected activities to preclude any adverse impact on the mission.

4.2.3 Listing of Open Tasks. The contractor shall provide the COR/Alternate COR a complete listing of all open tasks indicating the status of completion and any performance issues associated with them. The report is due no later than 30 calendar days prior to the contract scheduled end date.

4.2.4 Transfer of Materials. The contractor shall transfer to the Government all intellectual and real property belonging to the Government which was generated, purchased on behalf of, or provided by the Government for the performance of the work within this contract. The contractor shall provide the source code and executables for software developed and implemented on systems. Some examples would be code or scripts used to perform automated system backups, the monitoring of system processes, web development, code to check for security concerns etc. The contractor acknowledges that anything developed at the expense of the Government during the period of performance is the property of the Government. Electronic copies of the scripts shall be submitted to the Government for baseline control.

4.2.5 Sufficient Personnel. The contractor shall provide a sufficient number of personnel to ensure effective transfer of all work in progress so as not to impact mission accomplishment.

4.2.6 Cooperative Work Environment. The contractor shall maintain a cooperative work environment with other Government contractors and personnel so as not to cause interference, disagreement or delays to work to be performed while not compromising health, safety or security. The contractor shall be responsible for adapting schedules and performance to accommodate additional support work. Conflicts or cause for delays shall be brought to the attention of the COR.

4.3 Place of Performance. Unless otherwise stipulated in an individual task order, the primary place of performance shall be at the Contractor's location off -base.

4.4 Travel. Performance under this PWS may require contractor travel within and outside the Continental United States (CONUS). The Government will reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). All contractor travel shall be coordinated with and validated by the PM prior to incurring any travel expenses. Travel requests shall be submitted in writing at least five (5) business days in advance from the travel commencement date and shall consist of:

Title, Purpose/Objective, Expected Outcome
 Date, Time (window), and Location
 Proposed Itinerary
 Proposed Meeting/Activities Agenda
 Number of Contractor Participants
 Desired Government Participants

Requested Government Support
Estimated Costs

The contractor shall identify personnel who will be traveling in sufficient time to obtain the lowest possible rates for airfare, rental car and lodging. Contractor invoices (along with associated receipts) shall support all travel reimbursement requests. The Government will not reimburse local travel and related expenses to the contractor for daily travel to or from the place of performance stipulated in each individual task order. Contractors shall not use General Services Administration city pair contracts.

4.5 Hours of Operation. Unless specified under individual task orders, normal duty hours are between 0730 and 1630, Monday through Friday, with the exception of Federal holidays. If on-site contractor personnel deem it necessary to work outside normal duty hours, it must be coordinated with the COR assigned to the task order. The following will be observed as Federal holidays: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, and Christmas Day. Note: Any of the above holidays falling on a Saturday shall be observed on the preceding Friday. Holidays falling on a Sunday shall be observed on the following Monday.

4.6 Other Direct Costs (ODC). The Government will reimburse allowable other direct costs (ODCs) incurred in the performance of this PWS. ODCs may include, but are not limited to, software, group teleconferencing fees and membership/conference fees. All ODCs shall be coordinated with and validated by the primary or alternate COR specified on each individual task order, prior to incurring any expenses. ODC requests shall be submitted in writing to the COR at least five (5) business days in advance from incurring any expenses and contain estimated costs. The Contractor may be required to submit at least two quotes for high dollar value items. Contractor invoices (along with associated receipts) shall support all ODC reimbursement requests. In addition, General and Administrative overhead charges will not be accepted or paid for approved ODC purchases. Not all task orders may require ODCs.

4.7 Period of Performance. The period of performance for this contract shall consist of a base period with three optional periods through 30 September 2013:

Base Period:	1 Oct 2009 to 30 Sep 2010
Option Period 1:	1 Oct 2010 to 30 Sep 2011
Option Period 2:	1 Oct 2011 to 30 Sep 2012
Option Period 3:	1 Oct 2012 to 30 Sep 2013

4.8 List of Appendices.

APPENDIX	TITLE
A	Reference Publications
B	List of Acronyms
C	Non-Disclosure Agreement
D	Projected Enhancements

4.9 Section 508 Accessibility Standards. The following technical standards and functional performance criteria pertaining to Section 508 Accessibility Standard(s) of the Rehabilitation Act (29 U.S.C. 794d), as amended by the Workforce Investment Act of 1998 (P.L. 105-220), 7 Aug 1998, are applicable to this acquisition if the box is checked.

- ☒ 1194.21 - Software Applications and Operating Systems
- ☐ 1194.22 - Web-Based Intranet and Internet Information and Applications
- ☐ 1194.23 - Telecommunications Products

- ☐ 1194.24 - Video and Multimedia Products
- ☐ 1194.25 - Self-Contained, Closed Products
- ☐ 1194.26 - Desktop and Portable Computers
- ☐ 1194.41 - Information, Documentation and Support

The Technical Standards above facilitate the assurance that the maximum technical standards are provided to the Offerors. Functional Performance Criteria is the minimally acceptable standards to ensure Section 508 compliance. This block is checked to ensure that the minimally acceptable Electronic and Information Technology (E&IT) products are proposed.

4.10 Functional Performance Criteria.

- ☐ 1194.31 - Functional Performance Criteria

4.12 Standards. The AMP Federation is part of the JDDA-E. The JDDA-E consists of Conceptual, Prescriptive, and Transition Architectures, referred to collectively as the Enterprise Architecture (EA). The JDDA-E embodies the Distribution Process Owner's (USTRANSCOM) Corporate Services Vision (CSV) and Service Oriented Architecture (SOA) concepts. Current governance, policy, architecture, standards, and specification documentation can be obtained by coordinating with the AMP PMO. Other standards and specifications that are a part of the JDDA-E Prescriptive Architecture are being defined and will be made available after they are delivered. Until such time as the Prescriptive Architecture is released, existing federal, DOD, and USTRANSCOM guidelines shall pertain. The AMP contractor shall abide by the requirements of the DOD Information Technology Standards Registry (DISR) and the DOD Net-Centric environment as reflected in the JDDA-E. The contractor shall show traceability to the DTS Enterprise Architecture (EA) content to include identifying anticipated standards, new Information Exchange Requirements (IER), and system interfaces. This traceability shall be reflected in DODAF products for which the contractor shall be responsible to develop or update.

DOD is implementing a Service-Oriented Architecture (SOA) environment to enhance net-centricity and data sharing within the Global Information Grid (GIG). As USTRANSCOM is in SOA discovery mode, the contractor shall consider SOA standards and protocols documented in the DISROnline and the Net-Centric Operations Warfare Reference Model (NCOW RM) during system development and enhancement. A SOA is a design style for building flexible, adaptable distributed-computing environments for the DOD. Service-oriented design is fundamentally about sharing and reusing functionality across diverse applications. Service-oriented design focuses on the following best practices:

- Make application and system functionality as accessible and reusable services.
- Expose service functionality through programmatic interfaces.
- Maintain an abstraction layer between service interfaces and service implementations.
- Describe service interfaces using standard metadata.
- Advertise and discover services using standard service registries.
- Communicate with services using standard protocols.

USTRANSCOM's Data Management Strategy is documented in the Information Reference Model Manual which is the governing document for Enterprise Information Management within the Command. This document outlines program responsibility in support of the strategy. It mandates the creation and use of Standard Message Templates and Standard Reference Data (USTRANSCOM Reference Data Management - TRDM). The Enterprise Data Office (TC/J6-AD) will assist with the creation of the Standard Message Templates once validated through the Enterprise Requirements Management process. The AMP Contractor may be required to ensure AMP data is submitted and compliant with USTRANSCOM's Distribution Process Interface Exchange Data Model (DPIEDM), and that no data business rule from that model is violated in the system, to include the database and interfaces.

Software shall be developed in accordance with CMMI Level II best practices.

4.13 Small Business Commitment. If award is made to a large business, verification of subcontracting goals

will be accomplished thru eSRS. If award is made to a small business, verification of subcontracting goals will be accomplished via a semi-annual report from contractor to the contracting officer. Report format will be determined at the post-award conference. A small business prime contractor may use their work performance to meet the small business commitment.

5.0 Security (Physical, Personnel, Information, Industrial, Anti-terrorism and Force Protection Requirements)

5.1 General Security Information. The overall classification of work associated with this PWS is at the SECRET level. Contract employees who support this contract and who work in a classified environment or work with or in a work area containing SECRET data shall require SECRET clearance eligibility and access. Personnel requiring security clearances must possess the clearance prior to beginning work on any classified information. The contractor shall not divulge any financial, planning, programming, or budgeting information without the express consent of the Government. The contract work associated with this PWS deals directly with systems supporting current operations and decision making for the DPO. A completed / signed DD 254 is attached to this PWS.

5.2 Contract employees will be required to access classified areas and systems at various locations that require SECRET eligibility. Contract employees with access to Information Assurance (IA) administrative privileges and/or who will monitor DoD IT systems or software as designated by DoD 8500.1 and 5200.2-R will be rated at ADP/IT-II level for this contract.

5.3 Contract employees assigned at the Non-Critical Sensitive/ADP II rating require an ANACI (or acceptable periodic reinvestigation) favorably adjudicated (a favorable adjudication grants eligibility at the SECRET level as prescribed by DoD 5200.2-R). The contractor shall ensure that individuals assigned have completed the appropriate forms. The required investigation will be completed prior to the assignment of individuals to sensitive duties associated with the positions. The ADP II rating requirement mandates the company awarded the contract have a minimum Facilities Clearance Level (FCL) rated at SECRET, which is outlined in section 5.5 of this PWS as directed in DoD 5220.22-M.

5.4 Contract employees shall have completed favorably an investigation resulting in SECRET eligibility adjudicated by the Defense Industrial Security Clearance Office (DISCO). The Government will accept an Interim SECRET clearance provided it was granted by the Defense Industrial Security Clearance Office (DISCO).

5.5 The company that is awarded the contract must have a valid Facilities Clearance Level (FCL) at SECRET level. Interim FCL's are acceptable provided they are not expired. FCL procedures and security guidelines for adjudicative requirements are outlined in DoD 5220.22-M and DoD 5200.2-R. FCL's and Interim FCL's must be awarded by the Defense Security Service (DSS) or DISCO. USTRANSCOM will not sponsor the company awarded the contract for an FCL. The company awarded the contract must possess an interim or final FCL before the start of the contract.

5.6 Personnel assigned to this PWS who do not require access to classified material but will still work in support of this contract on the deliverables or who will require access to Non-Secure Internet Protocol Router Network (NIPRNET) applications and/or who will require Common Access Cards (CAC), must successfully complete a National Agency Check with Inquiries (NACI) or suitable investigation meeting the NACI level or equivalent. Favorable NACI or equivalent investigation results must be posted in the Joint Personnel Adjudication System (JPAS). Before a CAC or NIPRNET access is issued the NACI must be opened and fingerprint and name check returned favorably. NACI submissions will be completed on the Standard Form (SF) 85P and submitted with fingerprint cards (FP 258) to USTRANSCOM Force Protection, Security Services Center (SSC).

5.7 Upon contract award, the contractor will submit all names of contract employees to the USTRANSCOM Security Services Center (SSC) for vetting through JPAS to ensure investigative and clearance requirements have been satisfied. This will be completed before the Contract Officer Representative (COR) / Trusted Agent (TA) accesses the DoD Contract Verification System (CVS) and submits requests for issuance of Common Access Cards (CAC) to the contract employees. If a contract employee does not have the required investigative or security

clearance level, the contract employee will be denied the ability to work in support of this PWS, and the employee's information will not be loaded into CVS.

5.8 Upon notification by the SSC that contract personnel meet the required investigative and clearance level, personnel will be loaded in CVS for an expiration on their CAC for the base year, plus two option years, for a three year total, if the contract is fully funded. If the contract is unfunded or funded on a yearly basis requiring recertification of funding by USTRANSCOM AQ or J8, CAC's will only be loaded for the base contract or option year only.

5.9 Upon receipt of the CAC, permanently assigned contract employees located at USTRANSCOM at SAFB, IL, may obtain the AF 1199 (Restricted Area Badge) if the employee meets the requirements set forth in the SAFB Instruction 31-101. Only personnel assigned physically on SAFB at least 4 days a week will be issued the AF 1199 unless an exception to policy is approved by the 375th SFS through the USTRANSCOM SSC. In addition, the contractor is required to provide contractor (company) identification badges for its on-site employees. All contractor personnel shall wear these badges while on duty on the Government site. Contractor (company) identification badges are required to identify the individual, company name, and are clearly and distinctly marked as contractor. The contractor and Government shall mutually agree on badge size, color, style, etc. The Government will provide unrestricted access to facilities, consistent with security clearance and need to know, necessary for the on-site person to perform his or her contractual job. Contractor personnel assigned on-site at USTRANSCOM shall wear and display both the contractor identification badge and Restricted Area Badge at all times.

5.10 Any visit(s) by contract employees not permanently assigned to this contract (company presidents, company security managers, contract employees not permanently assigned at SAFB, etc.) will require an electronic visit request be submitted using the Joint Personnel Adjudication Systems (JPAS).

5.11 Upon completion of this contract, the employee will surrender all government supplies, materials and equipment to the COR. All contract employees assigned to this contract who possess CAC cards shall return these cards to the COR at SAFB for turn-in to the USTRANSCOM Security Services Center (SSC). Assigned contract employees who possess any security badges shall turn these badges in to the SSC in person during out-processing. Contract employees shall out-process on the last day of the contract or upon termination or reassignment from duties on this contract.

5.12 If the contract employee physically works at USTRANSCOM at SAFB, IL, this employee shall complete a security debriefing statement (Standard Form 312) upon completion of the contract.

5.13 Contract employees assigned to USTRANSCOM at SAFB IL shall attend and complete Employee Initial Security Briefing and Annual Security Awareness Training as prescribed by DOD, USTRANSCOM and Air Force Instructions. All contract employees, regardless of place of assignment, shall complete the annual DoD Antiterrorism Level 1 training. Contract employees assigned elsewhere shall attend security training established by their respective government security offices and/or installations.

5.14 The Government shall ensure the roles/privileges assigned to contract employees on the Government computing platforms are limited to the roles/privileges essential to that individual's performance of his/her assignments. The Government may limit or revoke these roles or privileges for any reason.

5.15 If the Government notifies the contractor that the employment or the continued employment of any contract employee is prejudicial to the interests or endangers the security of the United States of America, that person shall be removed and barred from the worksite. This includes security deviations/incidents and credible derogatory information on contract members during the course of the contract period. The contractor shall make any changes necessary in the appointment(s).

5.16 Responsibility for offsite contractor's compliance with internal security for a Command, Control, Communications, and Computer (C⁴) system site shall be assigned to the contractor. All contractor personnel shall be briefed on site security operating procedures prior to or upon commencement of contract award and shall be

debriefed upon termination. The contractor shall be responsible for all continuing security training of the contractor personnel.

5.17 Secure Internet Protocol Router Network. It is a requirement of this contract that the contractor use a secure SIPRNET network connection, maintained at the contractor's facility in a secure space IAW DoDI 5200.1-R, Appendix 7. The Government will provide the equipment and leased line to support the SIPRNET connection. Before the SIPRNET is established in the contractors location the contractor must have a physical safeguarding rating at the SECRET level from DSS.

5.18 Non-Public Information. In performance of this contract, the contractor may obtain access to sensitive, non-public information. The contractor agrees (a) to use and protect such information from unauthorized disclosure in accordance with the FAR; (b) to use and disclose such information only for the purpose of performing this contract and to not use or disclose such information for any personal or commercial purpose; (c) to obtain permission of the Government PM before disclosing/discussing such information with a third party; (d) to return, upon Government request, any non-public, sensitive information no longer required for contractor performance; and (e) to advise the Government PM of any unauthorized release of such information. Upon request, the contractor shall have its employees assigned to this contract execute a non-disclosure agreement for delivery to the Government. The Government will require contractor personnel to sign a non-disclosure statement to protect non-public information of other contractors and/or the Government (see Appendix C, "Non-Disclosure Agreement"). This is also covered in the DD 254 for disclosure approvals authorities.

5.19 Security Regulation Compliance. The contractor shall comply with all security regulations and directives as identified herein and other security requirements in this contract specific to site locations of work. Upon contract start, employees shall attend security training required by this PWS in Paragraph 4.1.

Security Regulation Guidance:

Department of Defense (DoD):

2000.16 (DoD Antiterrorism (AT) Standards)
5200.1-R (DoD Information Security Program)
5200.2-R (DoD Personnel Security Program)
5200.08-R (DoD Physical Security Program)
5220.22-M (National Industrial Security Program)
8500.1 (Information Assurance (IA))
2000.12 (DoD Antiterrorism (AT) Program)
8500.2 (Information Assurance (IA) Implementation)

DoD regulations found at:

<http://www.dtic.mil/whs/directives/corres/pub1.html>

Scott Air Force Base:

SAFB Instruction 31-101 (Installation Security Instruction)

(Restricted publication. Send only to...mil domains when forwarding. Not for public distribution.)

Forms:

DD 254, DoD, Contract Security Classification Specification

DoD forms found at:

<http://www.dtic.mil/whs/directives/corres/pub1.html>

USTRANSCOM Force Protection (Industrial Security) Points of Contact:

Patrick Collins or Steven Strait

508 Scott Drive

TCJ3-FP

Scott AFB, IL. 62225

Commercial: 618-229-7349/8287 (respectively)

Email at Patrick.Collins@ustranscom.mil or Steven.Strait@ustranscom.mil

APPENDIX A

REFERENCE PUBLICATIONS

USTRANSCOM Data Management Handbook

USTRANSCOM Instruction 33-45, Defense Transportation System Enterprise Capabilities Management Process, 1 Apr 2005.

DOD Directive 5158.04, Subject: United States Transportation Command, 27 Jul 2007.

Chairman of the Joint Chiefs of Staff Instruction 3170.01E, "Joint Capabilities Integration and Development System," 11 May 2005.

DOD Directive 5000.01, "The Defense Acquisition System," 12 May 2003.

DOD Directive 8100.01, "Global Information Grid Overarching Policy," 19 Sep 2002.

DOD 5200.1-R, Information Security Program, 14 Jan 1997

DOD Directive 8320.2, Data Sharing in a Net-Centric Department of Defense, 2 Dec 2004.

DOD 8320.02-G, Guidance for Implementing Net-Centric Data Sharing, 12 Apr 2006.

DOD Directive 8500.01E, Information Assurance, 24 Oct 2002.

DOD Instruction 8500.2, Information Assurance Implementation, 6 Jan 2003.

DOD Net-Centric Data Strategy, 9 May 2003.

DODI 8510.01, DOD Certification and Accreditation Process, November 28, 2007.

MIL-STD 3022, Documentation of Verification, Validation, and Accreditation For Models And Simulations, 28 Jan 2008.

APPENDIX B**LIST OF ACRONYMS**

TERM	DEFINITION
ADP	Automated Data Processing
AMP	Analysis of Mobility Platform
AMP-PAT	AMP Port Analysis Tools
API	Application Program Interface
APOD	Aerial Port of Debarkation
ARAT	Airport Rapid Analysis Tool
AST	Airport Simulation Tool
ATT	Airport Throughput Tool
BCR	Baseline Change Request
C ⁴	Command, Control, Communications, and Computer
CAA	Center for Army Analysis
CCB	Configuration Control Board
CD	Compact Disc
CM	Configuration Management
CMB	Configuration Management Board
CMP	Configuration Management Plan
CND	Computer Network Defense
CO	Contracting Officer
COA	Course of Action
COE	Common Operating Environment
CONOPS	Concepts of Operation
CONUS	Continental United States
COOP	Continuity of Operations Plan
COR	Contracting Officer's Representative
COTS	Commercial Off-The-Shelf
CR	Change Request
DIACAP	DOD Information Assurance Certification and Accreditation Process
DII	Defense Information Infrastructure
DIP	DIACAP Implementation Plan
DISR	DOD Information Technology Standards Registry
DOD	Department of Defense
DPIEDM	Distribution Process Interface Exchange Data Model
DPNM	Distribution Performance Nodal Model
DPO	Distribution Process Owner
DSS	Defense Security Service
DTS	Defense Transportation System
E&IT	Electronic and Information Technology
EA	Enterprise Architecture
ECM	Enterprise Capabilities Management
ELIST	Enhanced Logistics Intra-theater Support Tool
eMASS	Enterprise Mission Assurance Support Service
ETAP	Education Training and Awareness Program
ETED	End-to-End Distribution
FAR	Federal Acquisition Regulation
FIPS	Federal Information Processing Standards
FM	Force Module
FM	Functional Manager

FTR	Federal Travel Regulation
FY	Fiscal Year
GEOLOC	Geographical Location
GFE	Government-Furnished Equipment
GIG	Global Information Grid
GUI	Graphical User Interface
IA	Information Assurance
IA&ISP	Information Assurance and Industrial Security Plan
IASAE	Information Assurance, Security Architecture and Engineering
ICD	Interface Control Document
IDL	Integrated Distribution Lane
IER	Information Exchange Requirement
IPR	In-Process Review
IMS	Integrated Management Schedule
INFO	Interactive File Operations
INFOCON	Information Condition
IPR	In-Process Review
IRDD	Interface Requirement Design Document
IRS	Interface Requirement Specification
ISA	Interconnection Security Agreement
ISP	Information Security Plan
ISB	Intermediate Staging Bases
ISSE	Information System Security Engineering
JDDA-E	Joint Deployment and Distribution Architecture - Enhanced
JDDDE	Joint Deployment and Distribution Enterprise
JDPAC	Joint Distribution and Process Analysis Center
JETA-SPOD	Joint Enabler Theater Access-Sea Port of Debarkation
JICM	Joint Integrated Contingency Model
JLOTS	Joint Logistics Over The Shore
JMCE	Joint Mobility Closure Estimator
JPEC	Joint Planning and Execution Community
JSAT	JETA-SPOD Analysis Tool
JTF-GNO	Joint Task Force – Global Network Operations
JTR	Joint Travel Regulation
LDM	Logical Data Model
LFF	Logistics Factors File
MAC	Mission Assurance Category
M&S	Modeling and Simulation
MHE	Material Handling Equipment
MIDAS	Model for Inter-theater Deployment by Air and Sea
MOA	Memorandum of Agreement
MOG	Maximum on Ground
MPFD	Mobility Planning Factors Database
MSEL	Master Scenario Events List
MSR	Main Supply Route
MSR	Monthly Status Report
NCOW RM	Net-Centric Operations Warfare Reference Model
NIPRNET	Non-Secure Internet Protocol Router Network
NLT	No Later Than
OCONUS	Outside the Continental United States
ODC	Other Direct Cost
OSD	Office of the Secretary of Defense
PAX	Passengers
PM	Program Manager

PMO	Program Management Office
POA&M	Plan of Action and Milestones
POC	Point of Contact
POD	Port of Debarkation
POE	Port of Embarkation
POL	Petroleum, Oil and Lubricants
PPSM	Ports, Protocols, and Services Management
PWS	Performance Work Statement
QA	Quality Assurance
QDR	Quadrennial Defense Review
RDBMS	Relational Database Management System
RLN	Requirement Line Number
SA	System Administration
SDS	Service Delivery Summary
SIP	System Identification Profile
SIPRNET	Secure Internet Protocol Router Network
SOA	Service-Oriented Architecture
SOP	Standard Operating Procedure
SPIs	Systems, Programs, and Initiatives
SRAT	Seaport Rapid Analysis Tool
SRS	Software Requirement Specification
SST	Seaport Simulation Tool
ST&E	Security Test and Evaluation
STIG	Security Technical Implementation Guide
STon	Short Ton
STORM	Simulation Testing Operations Rehearsal Model
STT	Seaport Throughput Tool
SVD	Software Version Description
T-ACS	Auxiliary Crane Ship
TCC	Transportation Component Command
TOMP	Task Order Management Plan
TPFDD	Time-Phased Force Deployment Data
UE	Unit Equipment
ULN	Unit Line Number
USTRANSCOM	United States Transportation Command
VV&A	Verification, Validation, and Accreditation

APPENDIX C**NONDISCLOSURE AGREEMENT AND AGREEMENT TO DISCLOSE POTENTIAL
CONFLICTS OF INTEREST
FOR CONTRACTOR EMPLOYEES ON USTRANSCOM CONTRACTS**

NOTE: This Agreement is a standard agreement designed for use by contractor (including sub-contractor) employees assigned to work on USTRANSCOM contracts. Its use is designed to protect non-public Government information from disclosure, identify potential conflicts of interest, and prevent violations of federal statutes/regulations. The restrictions contained in this agreement also serve contractors by promoting compliant behavior that keeps contractors eligible to compete for Government contracts. In addition to the potential impact on future business opportunities, failure to abide by this agreement could result in administrative, civil, or criminal penalties specified by statute or regulation.

1. I, _____, currently an employee of _____, hereby agree to the terms and conditions set forth below.

2. I understand that I may have access to confidential business information, contractor bid or proposal information (as defined by FAR 3.104-1), and/or source selection information (as defined by FAR 2.101) either for contract performance, as a result of working in a USTRANSCOM facility, or of working near USTRANSCOM personnel, contractors, visitors, etc. I fully understand that such information is sensitive and must be protected in accordance with 41 US Code Section 423 and FAR SubPart 3.1.

3. In the course of performing under contract/order # _____ or some other contract or sub-contract for USTRANSCOM, I agree to:

a) Use only for Government purpose any and all confidential business information, contractor bid or proposal information, and/or source selection sensitive information to which I am given access. I agree not to disclose "non-public information" by any means (in whole or in part, alone or in combination with other information, directly, indirectly, or derivatively) to any person except to a US Government official with a need to know or to a non-Government person (including, but not limited to, a person in my company, affiliated companies, sub-contractors, etc.) who has a need to know related to the immediate contract/order, has executed a valid form of this non-disclosure agreement, and receives prior clearance by the Contracting Officer. All distribution of the documents will be controlled with the concurrence of the Contracting Officer.

b) "Non-public information," as used herein includes trade secrets; confidential or proprietary business information (as defined for Government employees in 18 USC 1905); advance procurement information (future requirements, acquisition strategies, statements of work, budget/program/planning data, etc.); source selection information (proposal rankings, source selection plans, contractor bid or proposal information); information protected by the Privacy Act (social security numbers, home addresses, etc.); sensitive information protected from release

under the Freedom of Information Act (pre-decisional deliberations, litigation materials, privileged material, etc.); and information that has not been released to the general public and has not been authorized for such release (as defined for Government employees in 5 CFR 2635.703).

c) Not use such information for any non-Governmental purposes, including, but not limited to, the preparation of bids or proposals, or the development or execution of other business or commercial ventures.

d) Store the information in such a manner as to prevent inadvertent disclosure or releases to individuals who have not been authorized access to it.

4. I understand that I must never make an unauthorized disclosure or use of confidential business information, contractor bid or proposal information, and/or source selection sensitive information unless:

a) The information has otherwise been made available without restriction to the Government, to a competing contractor or to the public.

b) The Contracting Officer determines that such information is not subject to protection from release.

5. I agree that I shall not seek access to “non-public information” beyond what is required for the performance of the services I am contracted to perform. I agree that when I seek access to such information, attend meetings, or communicate with other parties about such information, I will identify myself as a contractor. Should I become aware of any improper or unintentional release or disclosure of “non-public information,” I will immediately report it to the Contracting Officer in writing. I agree that I will return all forms (including copies or reproduction of original documents) of any “non-public information” provided to me by the Government for use in performing my duties to the control of the Government when my duties no longer require this information.

6. Because the Government expects unbiased judgment and recommendations from contractors performing work under its contracts and orders, I agree to advise the Contracting Officer of any actual or potential personal conflicts of interest I may have related to any work I perform under this contract/order with the government. Personal conflicts of interest include any matter in which I or my spouse, minor child, or household member has a financial interest. A financial interest is any interest in, or affiliation with, a prime contractor, subcontractor to a prime contractor, any offerors, or any prospective subcontractor to any offeror for the program, contract, or other matter for which I am performing a support task under this contract. The financial interest can take the form of any ownership interest (including but not limited to: stock; ownership of bonds; vested or unvested retirement benefits; a loan or other financial arrangement that is other than an arm’s-length transaction; employment, or an arrangement concerning prospective employment including negotiations therefore; or any non arm’s length loan, any gift from or other non arm’s length financial arrangement with any person who is

directly communicating with the government on behalf of the prime contractor, subcontractor, or any prospective subcontractor or offeror). With respect to conflict of interest disclosures required under this agreement, a financial interest in, or affiliation with, the prime contractor that is my employer under this contract does not have to be disclosed to the Contracting Officer. If any potential conflicts of interest, real or otherwise, do present themselves, then I shall immediately disclose the pertinent information to the Contracting Officer.

By signing below, I certify that I have read and understand the terms of this Non-Disclosure Agreement and Agreement to Disclose Potential Conflicts of Interest, and voluntarily agree to be bound by its terms.

_____	_____
Signature of Contractor Employee	Date

Printed Contractor Employee Name

_____	_____
Government Contracting Officer's Representative	Date

_____	_____
Contracting Officer	Date

APPENDIX D

PROJECTED ENHANCEMENTS

Projected enhancements may include, but are not limited to, the following. The below enhancements are projected and may or may not be awarded. In addition, enhancements listed below for particular option years may be awarded at the Government's discretion before or after the option year specified.

Enhancements (Option Year 1):

1.3.11.17 AMP GUI. The contractor shall continue to design, develop and test the AMP GUI. The contractor shall develop the GUI with input from USTRANSCOM and other users. The GUI will include mechanisms for configuring and running AMP models. The GUI development will be compliant with USTRANSCOM EA standards.

1.3.11.18 AMP Infrastructure. The contractor shall continue to design, develop, and test the needed infrastructure to support the installation and updating of federates. The AMP infrastructure will be extensible to meet future USTRANSCOM needs. The AMP infrastructure will be compliant with USTRANSCOM EA standards.

1.3.11.18.1 AMP Federation. The contractor shall maintain and expand the Federation API and the data model.

1.3.11.18.2 Federation Maintenance. The contractor shall maintain the Federation data objects and run infrastructure, and adapt to changes in the component models.

1.3.11.19 AMP Security. The contractor shall continue to design, develop, test and apply required security features.

1.3.11.20 AMP Data Management. The contractor shall comply with the Data Standardization requirements in Paragraphs 1.3.5.4 of the PWS.

1.3.11.21 AMP Design. The contractor shall continue to design the infrastructure and GUI to support Federation integration efforts. The design will support the future addition of and change to the existing federates. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users.

1.3.11.21.1 Integrate With Supply Chain Guru. The contractor shall develop the AMP software in order for AMP to provide GEOLOCs, Logistics Factors File (LFF)-based projected unit demand at theater destinations, and strategic deliveries to initialize a run for Supply Chain Guru.

1.3.11.21.2 Joint Mobility Closure Estimator Integration. The contractor shall develop the capability to import data from an AMP Federation run into the Joint Mobility Closure Estimator (JMCE) modeling tool.

1.3.11.22 Surface Modeling. The contractor shall design, develop, and test the following surface modeling tasks into AMP.

1.3.11.22.1 The contractor shall develop the capability to view theater-level modeling results on the map. The map will display closure, bottlenecks, and stockage levels.

1.3.11.22.2 The contractor shall provide a capability for adding cost factors, which will allow tracking of the costs for each movement. This would include, but not be limited to, costs associated with loading/offloading, transport, and vehicle request.

1.3.11.22.3 The contractor shall add functionality for calculating fuel consumption for all surface transportation.

1.3.11.23 AMP MIDAS Support and Integration. The contractor shall integrate enhancements to the MIDAS application into the AMP Federation. The AMP developer shall coordinate with the MIDAS developer to understand the new capabilities provided by each MIDAS release, support the integration of new MIDAS releases into the AMP Federation, maintain file writers in AMP to support new releases of MIDAS, and work with the MIDAS developer to understand new inputs to MIDAS. Expected MIDAS releases include enhanced support theater air/sealift modeling, and a more detailed supply plan. MIDAS requirements and priorities shall be determined at the annual AMP User's Group. The Government will coordinate with the MIDAS PMO for MIDAS enhancements to support the AMP Federation.

1.3.11.24 AMP ELIST Support and Integration. The contractor shall integrate enhancements to the ELIST application into the AMP Federation. The AMP developer shall coordinate with the ELIST developer to understand the new capabilities provided by each ELIST release, support the integration of new ELIST releases into the AMP Federation, maintain file writers in AMP to support new releases of ELIST, and work with the ELIST developer to understand new inputs to ELIST. Expected ELIST releases include enhanced support theater air/sealift modeling, and a more detailed supply plan. ELIST requirements and priorities shall be determined at the annual AMP User's Group. The Government will coordinate with the ELIST PMO for ELIST enhancements to support the AMP Federation.

1.3.11.25 AMP Reports/Results. The contractor shall continue to design, develop and test feedback of interim and final AMP Federation results. This includes reports, results viewing and graphs.

1.3.11.25.1 Scenario Reports. The contractor shall develop additional reports to support inventory levels, demand projections, and supply chain statistics, asset utilization, unit closure and port utilization.

1.3.11.25.2 AMP INFO-21 Support and Enhancements. The contractor shall continue to support AMP output files. The contractor shall make changes as needed to incorporate changes made to model federates. Investigate the use of Interactive File Operations (INFO)-21 as a global data mining tool in a SOA environment.

1.3.11.26 AMP Critics. The contractor shall continue to design, develop, and test AMP 'Critics.' These include pre-run checks on AMP setup data and post-run checks on Federation results.

1.3.11.27 AMP Mapping Support. The contractor shall continue to design, develop, and test mapping support in AMP. The contractor shall keep AMP up-to-date with OpenMap releases and will continue to add key setup and run time information on the map.

1.3.11.27.1 Requirement and CIN Map Enhancements. The contractor shall develop functionality to provide a Plan Versus Actual (PVA) graphical display on a map for deliveries of passengers, Unit Equipment (UE) and sustainment (resupply, ammunition and POL). On a map, which includes selectable destinations from the TPFDD and sustainment destinations from the AMP sustainment setup GUI, the user will be able to toggle on individual destination locations and at that location vertical bars will appear for PAX, UE and various types of sustainment (which destinations and what commodities are shown can be toggled by the user). One bar will show the requirement up to that point of the deployment and one bar will show deliveries of that commodity up to that point in time as indicated on a horizontal slider bar. The PVA bars will change over the deployment time period as controlled by a horizontal slider bar. The contractor shall also make the theaters selectable to enable the user to select and view a PVA for a particular theater.

1.3.11.28 APOD Model (AMP-PAT), MIDAS, ELIST and Land, Air and Sea Warfight Model Federation Integration. The contractor shall continue to support integration of key models in AMP and keep the Federation up-to-date with APOD Model (AMP-PAT), MIDAS, ELIST and appropriate land, air and sea warfight model (at this point, derived from the Synthetic theater of War Operations Research Model (STORM) releases.

1.3.11.28.1 APOD MODEL (AMP-PAT) Integration. The contractor shall expand the API with APOD MODEL (AMP-PAT) models to automatically import cases and check for case updates. The contractor shall develop the functionality to dynamically integrate the SST into the AMP Federation.

1.3.11.29 AMP CONUS-ELIST-MIDAS Integration. The contractor shall continue to enhance, develop, and test integration of CONUS-ELIST with MIDAS in AMP. This task will be bounded by the ability of the MIDAS model to dynamically exchange data with CONUS-ELIST.

1.3.11.30 Surface Modeling. The contractor shall design, develop, and test the following surface modeling tasks into AMP.

1.3.11.30.1 The contractor shall develop the capability to limit movement of units/resupply when fuel supply is low. The contractor would need to track fuel stockage, delivery, and usage.

1.3.11.30.2 The contractor shall design, develop, and test the ability to compare multiple runs. This would include reports and graphics comparing closure, asset utilization, cost, and other attributes.

1.3.11.30.3 The contractor shall add the capability to track, store, and retrograde empty pallets and containers. The contractor shall provide functionality to calculate when/where pallets and containers are unpacked and returned to inventory, and retrograde empty pallets/containers back to CONUS.

1.3.11.31 AMP Seabasing Capability. The contractor shall provide the capability to fully model seabasing within the AMP Federation.

1.3.11.31.1 The contractor shall design, develop, and test the capability to model a port as a dual port (i.e., as both an airport and a seaport).

1.3.11.31.2 The contractor shall develop the ability to constrain storage, which will constrain offload at the seabase port.

1.3.11.31.3 The contractor shall develop the ability to model multiple storage areas, each with their own characteristics, as well as with the ability to restrict cargo by type from different storage areas.

1.3.11.31.4 The contractor shall provide the capability to explicitly model vertical lift aircraft.

1.3.11.31.5 The contractor shall allow for the movement of the seabase over time, to include dynamically changing the sea network.

1.3.11.32 Collect and Analyze Data. The contractor shall develop software that will automatically organize and insert into AMP, cleansed, historical sustainment demand and transportation requirements data from the GDSS, GATES, WPS, SDDb, and IDE systems/sources.

Enhancements (Option Year II):

1.3.11.33 AMP Federation. The contractor shall maintain and expand Federation API and data model.

1.3.11.34 Surface Modeling. The contractor shall design, develop, and test the following surface modeling tasks into AMP.

1.3.11.34.1 The contractor shall develop the capability to degrade roads over time.

1.3.11.34.2 The contractor shall design, develop, and test the capability of movement off the road network. The contractor shall calculate traffic ability of units across open terrain to determine the time it would take to move across this area.

1.3.11.34.3 The contractor shall add the ability to change attributes based on time of day or day of week (i.e., alternate routes could be introduced, based on time of day because of differing shifts).

1.3.11.35 AMP Seabasing Capability. The contractor shall provide the capability to fully model seabasing within the AMP Federation.

1.3.11.35.1 The contractor shall add capacitated storage at the seabase by cargo class.

1.3.11.35.2 The contractor shall add the ability to model rotary wing cargo and PAX movements through the seabase.

1.3.11.35.3 The contractor shall add the ability to model different types of lighterage systems.

1.3.11.35.4 The contractor shall add Level 4 loading of ships.

1.3.11.35.5 The contractor shall design and develop the capability to model not only strategic movement of cargo/PAX into a seabase, but also movement from the seabase into theater ports.

1.3.11.35.6 The contractor shall provide the capability to incrementally offload ships at the seabase.

1.3.11.36 Federation Support. In the strategic model, the contractor shall provide the capability to model capacitated land links and provide associated data to other federated models.

1.3.11.37 AMP Data Management. The contractor shall ensure AMP data is compliant with USTRANSCOM's DPIEDM or its suitable substitute, as approved by the USTRANSCOM EA group.

1.3.11.38 AMP Design. The contractor shall continue to design the infrastructure and GUI to support Federation integration efforts. The design will support the future addition of, and changes to, existing federates. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users.

1.3.11.39 AMP MIDAS Support. The contractor shall support MIDAS releases and maintain MIDAS file writers to support new functionality in MIDAS.

1.3.11.40 AMP Security. The contractor shall continue to design, develop, test, and apply required security features.

1.3.11.41 AMP Reports/Results. The contractor shall continue to design, develop, and test feedback of interim and final AMP Federation results with user friendly reports. The contractor shall provide for reports to enable analysts to analyze more efficiently AMP model output. The developer shall develop these reports concurrently with the development of new functionality.

1.3.11.42 AMP Critics. The contractor shall continue to design, develop, and test AMP 'Critics.' The contractor shall provide for the development of six critics.

1.3.11.43 AMP Mapping Support. The contractor shall continue to design, develop, and test mapping support in AMP and add more robust mapping capabilities. Examples include, but are not necessarily limited to: multi-select and deletion; map-based editing of airports, seaports, ships, requirements, etc, force arrows, new map layers and more detailed maps; and a context-sensitive map layer. Keep AMP up-to-date with OpenMap releases. Continue to add key setup and run time information on the map.

1.3.11.44 AMP, APOD MODEL (AMP-PAT), MIDAS, and ELIST Federation Integration. The contractor shall continue to support integration of key models in AMP and will keep the AMP Federation up-to-date with APOD MODEL (AMP-PAT), MIDAS, JICM, and ELIST releases. The contractor shall continue to automatically

identify enablers in the deployment plan and optionally adjust port throughputs by the use of Master Scenario Event List (MSEL) throughput changes into the Federation.

1.3.11.45 AMP-ELIST Integration Support. The contractor shall maintain the direct interface to ELIST that supports programmatic controls of ELIST from AMP to allow integrated requirements editing in ETEdit. Support requirements synchronization with ELIST.

1.3.11.46 Transition Support for Surface Distribution Model

1.3.11.46.1 The contractor shall develop a comprehensive installer that installs all AMP models and tools.

1.3.11.46.2 The contractor shall design, prototype, and test a surface distribution model to support movement from origins to POEs and PODs to point of use, using Government accepted surface movement algorithms.

1.3.11.46.2.1 The developed surface distribution model shall have the ability to restrict usage to MSRs based on analyst input/designation. The model shall display the routes used by the route finding algorithm.

1.3.11.46.2.2 The developed surface distribution model shall be able to load several partial loads on a single vehicle and deliver them to their designated destination, as opposed to using a separate vehicle to deliver each partial load.

1.3.11.47 Analytical Service Oriented Architecture Environment

1.3.11.47.1 The contractor shall develop an initial Requirement Line Number (RLN) load estimator for ships and aircraft.

1.3.11.47.2 The contractor shall develop an initial cargo throughput estimator between locations.

1.3.11.47.3 The contractor shall develop an initial ability to display sealift measures for deployment requirements (Volume, Area, Containers, as written to MIDAS.REQ files).

Enhancements (Option Year III):

1.3.11.48 AMP Federation. The contractor shall maintain and expand Federation API and data model.

1.3.11.49 AMP Infrastructure. The contractor shall design, develop, and test the needed infrastructure to support the installation and updating of federates. The AMP infrastructure will be extensible to meet future USTRANSCOM needs. The AMP infrastructure will be compliant with USTRANSCOM EA standards.

1.3.11.50 AMP Security. The contractor shall design, develop, test and apply required security features.

1.3.11.51 AMP Data Management. The contractor shall ensure AMP data is compliant with USTRANSCOM's DPIEDM.

1.3.11.52 AMP Design. The contractor shall design the infrastructure and GUI to support Federation integration efforts. The design will support the future addition of and change to existing federates. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users.

1.3.11.53 Aerial Refueling Deployment. The contractor shall provide within the AMP construct the capability to utilize tanker aircraft in a dual role of air refueling and airlift capacity. The air refueling role will support the deployment of tactical aircraft from a rear-based airfield to a forward base. Tanker aircraft from en route locations must support deploying tactical aircraft en route to a forward base.

1.3.11.54 CBRN Leaker Analysis. The contractor shall provide the capability within the AMP-JAnT Federation to model TBM CBRN attacks and their impacts on key distribution nodes by federating with an air defense model

(e.g. EADSim) and the STORM warfight model. Impacts on airfield and seaport operations must be able to be measured as a function of throughput.

1.3.11.55 Medical Evacuation Modeling. The contractor shall provide the capability to model rapid patient movement from an in-theater location or global locations to support humanitarian operations. Included in this task is the ability to support aero-medical aircraft types, generation of patient requirements; movement of patients from forward locations/hospitals to the aeromedical staging areas to the airfield for onloading to waiting organic and civilian aircraft for transportation to CONUS locations or intermediate medical facilities.

1.3.11.56 JRaDS Modeling. The contractor shall provide the capability in the Surface Model to support the Joint Recovery and Distribution System vehicle and concept of operations. JRaDS will be able to support theater distribution in its entirety within the construct of the Surface Model including theater transportation pools.

1.3.11.57 Homeland Defense. The contractor shall provide the capability of supporting Homeland Defense Distribution Modeling within the AMP Federation. Included is the movement of sustainment to areas of attack within the homeland over riverine crossings due to bridge outages; aerial refueling support of Combat Air Patrol over cities of interest; movement of sustainment to areas of interest; transportation by rotary wing assets to remote locations and medical evacuation of casualties to medical facilities.

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
1001	Destination	Government	Destination	Government
1002	Destination	Government	Destination	Government
1003	Destination	Government	Destination	Government
2001	Destination	Government	Destination	Government
2002	Destination	Government	Destination	Government
2003	Destination	Government	Destination	Government
3001	Destination	Government	Destination	Government
3002	Destination	Government	Destination	Government
3003	Destination	Government	Destination	Government

CLAUSES INCORPORATED BY REFERENCE

52.246-6 Inspection--Time-And-Material And Labor-Hour MAY 2001

E-1. INSPECTION & ACCEPTANCE

Inspection and acceptance will be at USTRANSCOM Scott AFB, IL and the contractor's facility. All services performed and deliverables submitted by the contractor under the provisions of the Performance Work Statement (PWS) shall be inspected and accepted by the Contracting Officer's Representative (COR) at "destination."

Section F - Deliveries or Performance

CLAUSES INCORPORATED BY REFERENCE

52.242-15	Stop-Work Order	AUG 1989
52.247-34	F.O.B. Destination	NOV 1991

F-1. PACKAGING AND MARKING

Preservation, packaging, and packing of deliverable items called for herein shall be accomplished in accordance with Performance Work Statement.

Section G - Contract Administration Data

CLAUSES INCORPORATED BY FULL TEXT

252.201-7000 CONTRACTING OFFICER'S REPRESENTATIVE (DEC 1991)

(a) "Definition. Contracting officer's representative" means an individual designated in accordance with subsection 201.602-2 of the Defense Federal Acquisition Regulation Supplement and authorized in writing by the contracting officer to perform specific technical or administrative functions.

(b) If the Contracting Officer designates a contracting officer's representative (COR), the Contractor will receive a copy of the written designation. It will specify the extent of the COR's authority to act on behalf of the contracting officer. The COR is not authorized to make any commitments or changes that will affect price, quality, quantity, delivery, or any other term or condition of the contract.

(End of clause)

252.204-7006 BILLING INSTRUCTIONS (OCT 2005)

When submitting a request for payment, the Contractor shall--

(a) Identify the contract line item(s) on the payment request that reasonably reflect contract work performance; and

(b) Separately identify a payment amount for each contract line item included in the payment request.

(End of clause)

G-1. METHOD OF PAYMENT

(a) Labor hours in support of this contract will be paid against CLINs 0001, 1001, 2001, and 3001.

(b) Travel expenses as required in support of the contract will be reimbursed to the Contractor against CLINs 0002, 1002, 2002, and 3002 as follows:

Costs, such as transportation, lodging, meals, and incidental expenses incurred by Contractor personnel in accordance with each Task Order PWS. Costs will be paid in accordance with the Federal Acquisition Regulation (FAR) 31.205-46 and the Federal Travel Regulation (FTR).

(c) Other Direct Costs as required in support of the contract will be reimbursed to the Contractor against CLINs 0003, 1003, 2003, and 3003 as follows:

Costs for the purchase of allowable ODCs in accordance with each Task Order PWS are subject to the contract clause FAR 52.216-7, entitled "Allowable Cost and Payment".

G-2. INVOICES AND PAYMENT

The contractor is required to submit interim cost vouchers to the appropriate DCAA auditor through Wide Area Work Flow (WAWF) when requesting payment for services performed under this contract or order. The DCAA Auditor will either approve for payment those vouchers found acceptable, or may suspend payment of questionable costs. Once approved the interim cost vouchers will be routed to the appropriate DFAS office for payment. If direct bill authority has been authorized by DCAA, the interim cost voucher will route directly to the applicable DFAS office for payment.

WIDE AREA WORKFLOW (WAWF)
ELECTRONIC INVOICING INSTRUCTIONS

IN ACCORDANCE WITH DFARS 252.232.7002, USE OF ELECTRONIC PAYMENT REQUESTS IS MANDATORY. USE OF WAWF WILL SPEED UP YOUR PAYMENT PROCESSING TIME AND ALLOW YOU TO MONITOR YOUR PAYMENT STATUS ONLINE. THERE ARE NO CHARGES OR FEES TO USE WAWF.

Requests for payments must be submitted electronically via the Internet through the Wide Area WorkFlow system at <https://wawf.eb.mil>.

Questions concerning payment should be directed to the Defense Finance Accounting Services (DFAS) Limestone at (800) 756-4571 or faxed to (866) 392-7971 or e-mailed to cco-af-vpis@dfas.mil. Please have your contract/order number and invoice number ready when contacting DFAS about payment status. You can also access payment information using the DFAS myInvoice web site at <https://myinvoice.csd.disa.mil/index.html>

THE FOLLOWING CODES WILL BE REQUIRED TO ROUTE YOUR COST VOUCHERS AND ADDITIONAL E-MAILS CORRECTLY THROUGH WAWF.

CONTRACT NUMBER:

DELIVERY ORDER NUMBER:

TYPE OF DOCUMENT:

CAGE CODE:

ISSUE BY DODAAC:

ADMIN DODAAC:

DCAA OFFICE:

SERVICE ACCEPTOR DODAAC:

PAY OFFICE DODAAC:

SEND MORE E-MAIL NOTIFICATIONS:

CONTRACT ADMINISTRATOR:

CONTRACTING OFFICER:

ADDITIONAL NOTIFICATION:

Section H - Special Contract Requirements

H-1. POST AWARD CONFERENCE

A Post Award Conference will be held at Scott AFB IL after contract award. The Contractor's authorized representative shall attend the Post Award Conference. Exact date, time and location will be provided in writing by the Contracting Officer prior to the conference.

Section I - Contract Clauses

CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUL 2004
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	APR 1984
52.203-6	Restrictions On Subcontractor Sales To The Government	SEP 2006
52.203-7	Anti-Kickback Procedures	JUL 1995
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	JAN 1997
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	JAN 1997
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	SEP 2007
52.203-13	Contractor Code of Business Ethics and Conduct	DEC 2008
52.204-2	Security Requirements	AUG 1996
52.204-4	Printed or Copied Double-Sided on Recycled Paper	AUG 2000
52.204-7	Central Contractor Registration	APR 2008
52.204-9	Personal Identity Verification of Contractor Personnel	SEP 2007
52.209-6	Protecting the Government's Interest When Subcontracting With Contractors Debarred, Suspended, or Proposed for Debarment	SEP 2006
52.215-2	Audit and Records--Negotiation	MAR 2009
52.215-8	Order of Precedence--Uniform Contract Format	OCT 1997
52.215-10	Price Reduction for Defective Cost or Pricing Data	OCT 1997
52.215-12	Subcontractor Cost or Pricing Data	OCT 1997
52.215-15	Pension Adjustments and Asset Reversions	OCT 2004
52.215-18	Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions	JUL 2005
52.215-21	Requirements for Cost or Pricing Data or Information Other Than Cost or Pricing Data--Modifications	OCT 1997
52.219-8	Utilization of Small Business Concerns	MAY 2004
52.219-9 Alt II	Small Business Subcontracting Plan (Apr 2008) Alternate II	OCT 2001
52.219-16	Liquidated Damages-Subcontracting Plan	JAN 1999
52.222-1	Notice To The Government Of Labor Disputes	FEB 1997
52.222-3	Convict Labor	JUN 2003
52.222-21	Prohibition Of Segregated Facilities	FEB 1999
52.222-26	Equal Opportunity	MAR 2007
52.222-35	Equal Opportunity For Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-36	Affirmative Action For Workers With Disabilities	JUN 1998
52.222-37	Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, and Other Eligible Veterans	SEP 2006
52.222-50	Combating Trafficking in Persons	FEB 2009
52.223-5	Pollution Prevention and Right-to-Know Information	AUG 2003
52.223-6	Drug-Free Workplace	MAY 2001
52.223-14	Toxic Chemical Release Reporting	AUG 2003
52.225-13	Restrictions on Certain Foreign Purchases	JUN 2008
52.227-1	Authorization and Consent	DEC 2007
52.227-11	Patent Rights--Ownership By The Contractor	DEC 2007
52.227-17	Rights In Data-Special Works	DEC 2007
52.229-3	Federal, State And Local Taxes	APR 2003

52.232-7	Payments Under Time-And-Materials And Labor Hour Contracts	FEB 2007
52.232-8	Discounts For Prompt Payment	FEB 2002
52.232-9	Limitation On Withholding Of Payments	APR 1984
52.232-11	Extras	APR 1984
52.232-17	Interest	OCT 2008
52.232-18	Availability Of Funds	APR 1984
52.232-23	Assignment Of Claims	JAN 1986
52.232-23 Alt I	Assignment of Claims (Jan 1986) - Alternate I	APR 1984
52.232-25	Prompt Payment	OCT 2008
52.232-33	Payment by Electronic Funds Transfer--Central Contractor Registration	OCT 2003
52.233-1	Disputes	JUL 2002
52.233-3	Protest After Award	AUG 1996
52.233-4	Applicable Law for Breach of Contract Claim	OCT 2004
52.237-2	Protection Of Government Buildings, Equipment, And Vegetation	APR 1984
52.237-3	Continuity Of Services	JAN 1991
52.239-1	Privacy or Security Safeguards	AUG 1996
52.242-13	Bankruptcy	JUL 1995
52.243-2	Changes--Cost-Reimbursement	AUG 1987
52.243-3	Changes--Time-And-Material Or Labor-Hours	SEP 2000
52.245-1	Government Property	JUN 2007
52.245-9	Use And Charges	JUN 2007
52.246-25	Limitation Of Liability--Services	FEB 1997
52.249-6	Termination (Cost Reimbursement)	MAY 2004
52.252-2	Clauses Incorporated By Reference	FEB 1998
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense-Contract-Related Felonies	DEC 2008
252.204-7000	Disclosure Of Information	DEC 1991
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7004 Alt A	Central Contractor Registration (52.204-7) Alternate A	SEP 2007
252.204-7005	Oral Attestation of Security Responsibilities	NOV 2001
252.209-7004	Subcontracting With Firms That Are Owned or Controlled By The Government of a Terrorist Country	DEC 2006
252.211-7007	Reporting of Government-Furnished Equipment in the DoD Item Unique Identification (IUID) Registry	NOV 2008
252.215-7000	Pricing Adjustments	DEC 1991
252.215-7002	Cost Estimating System Requirements	DEC 2006
252.219-7003	Small Business Subcontracting Plan (DOD Contracts)	APR 2007
252.223-7004	Drug Free Work Force	SEP 1988
252.223-7006	Prohibition On Storage And Disposal Of Toxic And Hazardous Materials	APR 1993
252.225-7001	Buy American Act And Balance Of Payments Program	JAN 2009
252.227-7013	Rights in Technical Data--Noncommercial Items	NOV 1995
252.227-7014	Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation	JUN 1995
252.227-7016	Rights in Bid or Proposal Information	JUN 1995
252.227-7019	Validation of Asserted Restrictions--Computer Software	JUN 1995
252.227-7030	Technical Data--Withholding Of Payment	MAR 2000
252.227-7037	Validation of Restrictive Markings on Technical Data	SEP 1999
252.227-7038	Patent Rights--Ownership by the Contractor (Large Business)	DEC 2007

252.232-7003	Electronic Submission of Payment Requests and Receiving Reports	MAR 2008
252.243-7001	Pricing Of Contract Modifications	DEC 1991
252.243-7002	Requests for Equitable Adjustment	MAR 1998
252.247-7023	Transportation of Supplies by Sea	MAY 2002

CLAUSES INCORPORATED BY FULL TEXT

52.215-19 NOTIFICATION OF OWNERSHIP CHANGES (OCT 1997)

(a) The Contractor shall make the following notifications in writing:

(1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.

(2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.

(b) The Contractor shall--

(1) Maintain current, accurate, and complete inventory records of assets and their costs;

(2) Provide the ACO or designated representative ready access to the records upon request;

(3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractor's ownership changes; and

(4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

(End of clause)

52.216-7 ALLOWABLE COST AND PAYMENT (DEC 2002)

(a) Invoicing.

(1) The Government will make payments to the Contractor when requested as work progresses, but (except for small business concerns) not more often than once every 2 weeks, in amounts determined to be allowable by the Contracting Officer in accordance with Federal Acquisition Regulation (FAR) subpart 31.2 in effect on the date of this contract and the terms of this contract. The Contractor may submit to an authorized representative of the Contracting Officer, in such form and reasonable detail as the representative may require, an invoice or voucher supported by a statement of the claimed allowable cost for performing this contract.

(2) Contract financing payments are not subject to the interest penalty provisions of the Prompt Payment Act. Interim payments made prior to the final payment under the contract are contract financing payments, except interim payments if this contract contains Alternate I to the clause at 52.232-25.

(3) The designated payment office will make interim payments for contract financing on the 30th day after the designated billing office receives a proper payment request.

In the event that the Government requires an audit or other review of a specific payment request to ensure compliance with the terms and conditions of the contract, the designated payment office is not compelled to make payment by the specified due date.

(b) Reimbursing costs. (1) For the purpose of reimbursing allowable costs (except as provided in subparagraph (b)(2) of the clause, with respect to pension, deferred profit sharing, and employee stock ownership plan contributions), the term "costs" includes only--

(i) Those recorded costs that, at the time of the request for reimbursement, the Contractor has paid by cash, check, or other form of actual payment for items or services purchased directly for the contract;

(ii) When the Contractor is not delinquent in paying costs of contract performance in the ordinary course of business, costs incurred, but not necessarily paid, for--

(A) Supplies and services purchased directly for the contract and associated financing payments to subcontractors, provided payments determined due will be made--

(1) In accordance with the terms and conditions of a subcontract or invoice; and

(2) Ordinarily within 30 days of the submission of the Contractor's payment request to the Government;

(B) Materials issued from the Contractor's inventory and placed in the production process for use on the contract;

(C) Direct labor;

(D) Direct travel;

(E) Other direct in-house costs; and

(F) Properly allocable and allowable indirect costs, as shown in the records maintained by the Contractor for purposes of obtaining reimbursement under Government contracts; and

(iii) The amount of financing payments that have been paid by cash, check, or other forms of payment to subcontractors.

(2) Accrued costs of Contractor contributions under employee pension plans shall be excluded until actually paid unless--

(i) The Contractor's practice is to make contributions to the retirement fund quarterly or more frequently; and

(ii) The contribution does not remain unpaid 30 days after the end of the applicable quarter or shorter payment period (any contribution remaining unpaid shall be excluded from the Contractor's indirect costs for payment purposes).

(3) Notwithstanding the audit and adjustment of invoices or vouchers under paragraph (g) of this clause, allowable indirect costs under this contract shall be obtained by applying indirect cost rates established in accordance with paragraph (d) of this clause.

(4) Any statements in specifications or other documents incorporated in this contract by reference designating performance of services or furnishing of materials at the Contractor's expense or at no cost to the Government shall be disregarded for purposes of cost-reimbursement under this clause.

(c) Small business concerns. A small business concern may receive more frequent payments than every 2 weeks.

(d) Final indirect cost rates. (1) Final annual indirect cost rates and the appropriate bases shall be established in accordance with Subpart 42.7 of the Federal Acquisition Regulation (FAR) in effect for the period covered by the indirect cost rate proposal.

(2)(i) The Contractor shall submit an adequate final indirect cost rate proposal to the Contracting Officer (or cognizant Federal agency official) and auditor within the 6-month period following the expiration of each of its fiscal years. Reasonable extensions, for exceptional circumstances only, may be requested in writing by the Contractor and granted in writing by the Contracting Officer. The Contractor shall support its proposal with adequate supporting data.

(ii) The proposed rates shall be based on the Contractor's actual cost experience for that period. The appropriate Government representative and the Contractor shall establish the final indirect cost rates as promptly as practical after receipt of the Contractor's proposal.

(3) The Contractor and the appropriate Government representative shall execute a written understanding setting forth the final indirect cost rates. The understanding shall specify (i) the agreed-upon final annual indirect cost rates, (ii) the bases to which the rates apply, (iii) the periods for which the rates apply, (iv) any specific indirect cost items treated as direct costs in the settlement, and (v) the affected contract and/or subcontract, identifying any with advance agreements or special terms and the applicable rates. The understanding shall not change any monetary ceiling, contract obligation, or specific cost allowance or disallowance provided for in this contract. The understanding is incorporated into this contract upon execution.

(4) Failure by the parties to agree on a final annual indirect cost rate shall be a dispute within the meaning of the Disputes clause.

(5) Within 120 days (or longer period if approved in writing by the Contracting Officer) after settlement of the final annual indirect cost rates for all years of a physically complete contract, the Contractor shall submit a completion invoice or voucher to reflect the settled amounts and rates.

(6)(i) If the Contractor fails to submit a completion invoice or voucher within the time specified in paragraph (d)(5) of this clause, the Contracting Officer may--

(A) Determine the amounts due to the Contractor under the contract; and

(B) Record this determination in a unilateral modification to the contract.

(ii) This determination constitutes the final decision of the Contracting Officer in accordance with the Disputes clause.

(e) Billing rates. Until final annual indirect cost rates are established for any period, the Government shall reimburse the Contractor at billing rates established by the Contracting Officer or by an authorized representative (the cognizant auditor), subject to adjustment when the final rates are established. These billing rates--

(1) Shall be the anticipated final rates; and

(2) May be prospectively or retroactively revised by mutual agreement, at either party's request, to prevent substantial overpayment or underpayment.

(f) Quick-closeout procedures. Quick-closeout procedures are applicable when the conditions in FAR 42.708(a) are satisfied.

(g) Audit. At any time or times before final payment, the Contracting Officer may have the Contractor's invoices or vouchers and statements of cost audited. Any payment may be (1) Reduced by amounts found by the Contracting Officer not to constitute allowable costs or (2) Adjusted for prior overpayments or underpayments.

(h) Final payment. (1) Upon approval of a completion invoice or voucher submitted by the Contractor in accordance with paragraph (d)(4) of this clause, and upon the Contractor's compliance with all terms of this contract, the Government shall promptly pay any balance of allowable costs and that part of the fee (if any) not previously paid.

(2) The Contractor shall pay to the Government any refunds, rebates, credits, or other amounts (including interest, if any) accruing to or received by the Contractor or any assignee under this contract, to the extent that those amounts are properly allocable to costs for which the Contractor has been reimbursed by the Government. Reasonable expenses incurred by the Contractor for securing refunds, rebates, credits, or other amounts shall be allowable costs if approved by the Contracting Officer. Before final payment under this contract, the Contractor and each assignee whose assignment is in effect at the time of final payment shall execute and deliver--

(i) An assignment to the Government, in form and substance satisfactory to the Contracting Officer, of refunds, rebates, credits, or other amounts (including interest, if any) properly allocable to costs for which the Contractor has been reimbursed by the Government under this contract; and

(ii) A release discharging the Government, its officers, agents, and employees from all liabilities, obligations, and claims arising out of or under this contract, except--

(A) Specified claims stated in exact amounts, or in estimated amounts when the exact amounts are not known;

(B) Claims (including reasonable incidental expenses) based upon liabilities of the Contractor to third parties arising out of the performance of this contract; provided, that the claims are not known to the Contractor on the date of the execution of the release, and that the Contractor gives notice of the claims in writing to the Contracting Officer within 6 years following the release date or notice of final payment date, whichever is earlier; and

(C) Claims for reimbursement of costs, including reasonable incidental expenses, incurred by the Contractor under the patent clauses of this contract, excluding, however, any expenses arising from the Contractor's indemnification of the Government against patent liability.

(End of clause)

52.216-18 ORDERING (OCT 1995)

(a) Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery orders or task orders by the individuals or activities designated in the Schedule. Such orders may be issued from 1 Oct 09 through 30 Sep 10 (30 Sep 11 if Option Year 1 is exercised; 30 Sep 12 if Option Year 2 is exercised; 30 Sep 13 if Option Year 3 is exercised).

(b) All delivery orders or task orders are subject to the terms and conditions of this contract. In the event of conflict between a delivery order or task order and this contract, the contract shall control.

(c) If mailed, a delivery order or task order is considered "issued" when the Government deposits the order in the mail. Orders may be issued orally, by facsimile, or by electronic commerce methods only if authorized in the Schedule.

(End of clause)

52.216-19 ORDER LIMITATIONS (OCT 1995)

(a) Minimum order. When the Government requires supplies or services covered by this contract in an amount of less than \$2,500.00, the Government is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under the contract.

(b) Maximum order. The Contractor is not obligated to honor:

(1) Any order for a single item in excess of \$13M;

(2) Any order for a combination of items in excess of \$13M; or

(3) A series of orders from the same ordering office within 360 calendar days that together call for quantities exceeding the limitation in subparagraph (1) or (2) above.

(c) If this is a requirements contract (i.e., includes the Requirements clause at subsection 52.216-21 of the Federal Acquisition Regulation (FAR)), the Government is not required to order a part of any one requirement from the Contractor if that requirement exceeds the maximum-order limitations in paragraph (b) above.

(d) Notwithstanding paragraphs (b) and (c) above, the Contractor shall honor any order exceeding the maximum order limitations in paragraph (b), unless that order (or orders) is returned to the ordering office within 5 calendar days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

(End of clause)

52.216-22 INDEFINITE QUANTITY (OCT 1995)

(a) This is an indefinite-quantity contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies and services specified in the Schedule are estimates only and are not purchased by this contract.

(b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. The Contractor shall furnish to the Government, when and if ordered, the supplies or services specified in the Schedule up to and including the quantity designated in the Schedule as the "maximum." The Government shall order at least the quantity of supplies or services designated in the Schedule as the "minimum."

(c) Except for any limitations on quantities in the Order Limitations clause or in the Schedule, there is no limit on the number of orders that may be issued. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(d) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after 30 Sep 2013.

(End of clause)

52.217-8 OPTION TO EXTEND SERVICES (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within 30 calendar days of contract expiration.

(End of clause)

52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor not later than 15 calendar days prior to expiration of the existing contract; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 60 calendar days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 4 years and 6 months.

(End of clause)

5552.204-9000 NOTIFICATION OF GOVERNMENT SECURITY ACTIVITY AND VISITOR GROUP SECURITY AGREEMENTS (APRIL 2007)

This contract contains a DD Form 254, DOD Contract Security Classification Specification, and requires performance at a government location in the U.S. or overseas. Prior to beginning operations involving classified information on an installation identified on the DD Form 254, the contractor shall take the following actions:

(a) At least thirty days prior to beginning operations, notify the security police activity shown in the distribution block of the DD Form 254 as to:

- (1) The name, address, and telephone number of this contract company's representative and designated alternate in the U.S. or overseas area, as appropriate;
- (2) The contract number and military contracting command;
- (3) The highest classification category of defense information to which contractor employees will have access which must coincide with the level of classification granted to the company and cage code located in the Joint Personnel Adjudication System (JPAS);
- (4) The installations in the U.S. (in overseas areas, identify only the APO number(s)) where the contract work will be performed;
- (5) The date contractor operations will begin on base in the U.S. or in the overseas area;
- (6) The estimated completion date of operations on base in the U.S. or in the overseas area; and,
- (7) Any changes to information previously provided under this clause.

This requirement is in addition to visit request procedures contained in DOD 5220.22-M, National Industrial Security Program Operating Manual.

(b) Prior to beginning operations involving classified information on an installation identified on the DD Form 254

where the contractor is not required to have a facility security clearance, the contractor shall enter into a Visitor Group Security Agreement (or understanding) with the installation commander to ensure that the contractor's security procedures are properly integrated with those of the installation. As a minimum, the agreement shall identify the security actions that will be performed:

- (1) By the installation for the contractor, such as providing storage and classified reproduction facilities, guard services, security forms, security inspections under DOD 5220.22-M, classified mail services, security badges, visitor control, and investigating security incidents; and
- (2) Jointly by the contractor and the installation, such as packaging and addressing classified transmittals, security checks, internal security controls, and implementing emergency procedures to protect classified material.

(End of clause)

5552.204-9001 FACILITY CLEARANCE (APRIL 2007)

The offeror must possess, or acquire prior to award of a contract, a facility clearance equal to the highest classification stated on the Contract Security Classification Specification DD Form 254 attached to this solicitation.

(End of clause)

5552.216-9003 USTRANSCOM TASK AND DELIVERY ORDER OMBUDSMAN (JUNE 2009)

In accordance with FAR 16.505(b)(6), the individual identified below is designated as the USTRANSCOM Task and Delivery-Order Ombudsman. The ombudsman is an independent official designated to review contractor complaints and to ensure contractors are afforded a fair opportunity to be considered, consistent with the procedures in the contract. Consulting the ombudsman does not relieve the contractor from performance requirements in the contract, nor alter or postpone any timelines for any other processes. Interested parties should first address their concerns, issues, disagreements, and/or recommendations to the contracting officer for resolution. If resolution cannot be made by the contracting officer, concerned parties may contact:

Deputy Director, Acquisition Business Operations
Telephone Number: 618-256-4300 FAX: 618-256-4702

5552.223-9001 Health and Safety on Government Installations.

HEALTH AND SAFETY ON GOVERNMENT INSTALLATIONS (APRIL 2007)

(a) In performing work under this contract on a Government installation, the contractor shall:

- (1) Comply with the specific health and safety requirements established by this contract;
- (2) Comply with the health and safety rules of the Government installation that concern related activities not directly addressed in this contract;
- (3) Take all reasonable steps and precautions to prevent accidents and preserve the health and safety of contractor and Government personnel performing or in any way coming in contact with the performance of this contract; and
- (4) Take such additional immediate precautions as the contracting officer may reasonably require for health and safety purposes.

(b) The contracting officer may, by written order, direct Air Force Occupational safety and Health (AFOSH) Standards and/or health/safety standards as may be required in the performance of this contract and any adjustments resulting from such direction will be in accordance with the Changes clause of this contract.

(c) Any violation of these health and safety rules and requirements, unless promptly corrected as directed by the

contracting officer, shall be grounds for termination of this contract in accordance with the Default clause of this contract.

(End of Clause)

Section J - List of Documents, Exhibits and Other Attachments

LIST OF ATTACHMENTS

Atch/Exhib NR	FORM NR	TITLE	DATE	NR OF PAGES
1	DD Form 254	DOD Contract Security Classification Specification	11 May 09	2
2	N/A	Contract Labor Rate Table	17 Sep 09	4
3	N/A	Small Business Goals & Plan	29 Sep 09	31

**ATTACHMENT
1**

HTC711-10-D-S002

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>		1. CLEARANCE AND SAFEGUARDING a. FACILITY CLEARANCE REQUIRED <div style="text-align: center;">SECRET</div> b. LEVEL OF SAFEGUARDING REQUIRED <div style="text-align: center;">SECRET</div>	
2. THIS SPECIFICATION IS FOR: (X and complete as applicable) a. PRIME CONTRACT NUMBER <div style="font-size: 1.2em; margin-top: 10px;">HTC711-10-D-5002</div>		3. THIS SPECIFICATION IS: (X and complete as applicable) a. ORIGINAL (Complete date in all cases) DATE (YYYYMMDD) <div style="text-align: right;">20090422</div> b. REVISED (Supersedes all previous specs) REVISION NO. DATE (YYYYMMDD) <div style="text-align: right;">1 20090511</div> c. FINAL (Complete item 5 in all cases) DATE (YYYYMMDD)	
X c. SOLICITATION OR OTHER NUMBER USTRANSCOM-FP-00002-09 DUE DATE (YYYYMMDD)			
4. IS THIS A FOLLOW-ON CONTRACT? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> If Yes, complete the following: Classified material received or generated under (Preceding Contract Number) is transferred to this follow-on contract.			
5. IS THIS A FINAL DD FORM 284? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> If Yes, complete the following: In response to the contractor's request dated , retention of the classified material is authorized for the period of			
6. CONTRACTOR (Include Commercial and Government Entity (CAGE) Code)			
a. NAME, ADDRESS, AND ZIP CODE BBN Technologies Corp. 10 Moulton Street Cambridge, MA 02138		b. CAGE CODE 3U6L5 c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) Defense Security Service 495 Summer St. Boston, MA 02210-2138	
7. SUBCONTRACTOR			
a. NAME, ADDRESS, AND ZIP CODE NONE		b. CAGE CODE c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code)	
8. ACTUAL PERFORMANCE			
a. LOCATION USTRANSCOM Attn: TCJ6 508 Scott Drive Scott AFB, IL. 62225 (Or Awarded Contract Facility)		b. CAGE CODE c. COGNIZANT SECURITY OFFICE (Name, Address, and Zip Code) Defense Security Service 11132 South Towne Square Suite 205 Saint Louis, MO. 63123-7818	
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses. AMP is an agent-based architecture used by analysts to dynamically configure component interactions and integrate additional models in order to obtain an end-to-end simulation of the Defense Transportation System (DTS). AMP allows users to rapidly set up, tailor, and extend transportation and logistics models to support programmatic analysis, war games and exercises, execution, and costing functions.			
10. CONTRACTOR WILL REQUIRE ACCESS TO:		11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION	YES NO	e. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	YES NO
b. RESTRICTED DATA	<input type="checkbox"/> <input checked="" type="checkbox"/>	f. RECEIVE CLASSIFIED DOCUMENTS ONLY	<input type="checkbox"/> <input checked="" type="checkbox"/>
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION	<input type="checkbox"/> <input checked="" type="checkbox"/>	g. RECEIVE AND GENERATE CLASSIFIED MATERIAL	<input type="checkbox"/> <input checked="" type="checkbox"/>
d. FORMERLY RESTRICTED DATA	<input type="checkbox"/> <input checked="" type="checkbox"/>	h. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	<input type="checkbox"/> <input checked="" type="checkbox"/>
e. INTELLIGENCE INFORMATION	<input type="checkbox"/> <input checked="" type="checkbox"/>	i. PERFORM SERVICES ONLY	<input type="checkbox"/> <input checked="" type="checkbox"/>
(1) Sensitive Compartmented Information (SCI)	<input type="checkbox"/> <input checked="" type="checkbox"/>	j. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., OUTSIDE U.S. POSSESSIONS AND TRUST TERRITORIES	<input type="checkbox"/> <input checked="" type="checkbox"/>
(2) Non-SCI	<input type="checkbox"/> <input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE SERVICES OF THE DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	<input type="checkbox"/> <input checked="" type="checkbox"/>
l. SPECIAL ACCESS INFORMATION	<input type="checkbox"/> <input checked="" type="checkbox"/>	m. REQUIRE A COMSEC ACCOUNT	<input type="checkbox"/> <input checked="" type="checkbox"/>
n. NATO INFORMATION	<input type="checkbox"/> <input checked="" type="checkbox"/>	o. HAVE TEMPEST REQUIREMENTS	<input type="checkbox"/> <input checked="" type="checkbox"/>
p. FOREIGN GOVERNMENT INFORMATION	<input type="checkbox"/> <input checked="" type="checkbox"/>	q. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	<input type="checkbox"/> <input checked="" type="checkbox"/>
r. LIMITED DISSEMINATION INFORMATION	<input type="checkbox"/> <input checked="" type="checkbox"/>	s. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	<input type="checkbox"/> <input checked="" type="checkbox"/>
t. FOR OFFICIAL USE ONLY (FOUO) INFORMATION	<input type="checkbox"/> <input checked="" type="checkbox"/>	OTHER (Specify)	
u. OTHER (Specify)	<input type="checkbox"/> <input checked="" type="checkbox"/>	Building access to USTRANSCOM J6 in support of this contract which requires a SECRET clearance for access by contract personnel. Contract members will also require access to SIPRNET systems.	

12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release ☐ Direct ☒ Through (Specify)

USTRANSCOM Public Affairs, OPSEC Officer and USTRANSCOM Information Security (Force Protection)

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs) for review.
*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

Security Requirements:

- (a.) Contractor shall be responsible for ensuring all security requirements outlined in the Performance Work Statement (PWS) are accomplished after award of the contract.
- (b.) For Official Use Only (FOUO) applies for all unclassified material. Reference DoD 5200.1-R, Appendix 3 and the Under Secretary of Defense for Intelligence memorandum, "Interim Information Security Guidance," dated April 16, 2004, (<http://www.fas.org/sgp/othergov/dod/dod041604.pdf>), for specific guidance on the handling and safeguarding of FOUO information.
- (c.) Contract employees physically assigned to USTRANSCOM at SAFB, IL, will attend / complete the following training provided by SDDC G2 as prescribed by DOD, USTRANSCOM and Air Force Instructions: Employee Initial Security Briefing, Annual Security Awareness Training, DOD AT Level 1 and OPSEC training.
- (d.) Contractors permanently assigned to this contract will obtain Common Access Cards (CAC) once the Trusted Agents (TA) processes the required security information in the Contract Verification System (CVS). Upon receipt of the CAC, permanently assigned contractor employees may obtain the AF 1199 (Restricted Area Badge) if the member meets the requirements set forth in SAFB Instruction 31-101.
- (e.) Visit Authorization Letters (VAL) or Visit Authorization Requests (VAR) are required for all permanently assigned contractor personnel to USTRANSCOM at SAFB, IL. The VAL/VAR request will be received 48 hours prior to start of contractor employees.
- (f.) Visit(s) by contract company personnel not permanently assigned to this contract (company presidents, company security managers, ect.) will require an electronic visit request in the Joint Personnel Adjudication System (JPAS).

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. ☐ Yes ☒ No
(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. ☒ Yes ☐ No
(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)

Contractor facilities that safeguarding classified information and systems will be periodically inspected by the Defense Security Service to validate security requirements for safeguarding.

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL	b. TITLE	c. TELEPHONE (Include Area Code)
PATRICK M. COLLINS	Chief, Security Services Center	(618) 229-7349

d. ADDRESS (Include Zip Code)
USTRANSCOM, Force Protection
308 Scott Drive, Bldg 1911
Scott Air Force Base, IL 62225-5004

e. SIGNATURE



17. REQUIRED DISTRIBUTION

- ☒ a. CONTRACTOR
- ☒ b. SUBCONTRACTOR
- ☒ c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
- ☒ d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
- ☒ e. ADMINISTRATIVE CONTRACTING OFFICER
- ☒ f. OTHERS AS NECESSARY

ATTACHMENT

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ANALYSIS OF MOBILITY PLATFORM (AMP)

CONTRACT LABOR RATE TABLE

BASE PERIOD (1 OCT 09 – 30 SEP 10)

LABOR CATEGORY NO.	LABOR CATEGORY	GOVT SITE RATE	CONTRACTOR SITE RATE
1	Program Manager		\$235.78
2	Project Manager		\$227.77
3	Principal Technologist	\$181.60	\$237.45
4	Divisional Technologist		\$219.13
5	Senior Technical Professional	\$129.75	\$187.43
6	Technical Professional		\$151.36
7	Staff Technical Professional		\$139.84
8	Senior Data Control Specialist		\$112.43
9	Project Administrator		\$83.34
10	Administrative Support		\$70.77
11	Technical Writer		\$80.51
12	Network Engineer		\$134.19

TRAVEL G&A RATE 23.9%

OPTION PERIOD 1 (1 OCT 10 – 30 SEP 11)

LABOR CATEGORY NO.	LABOR CATEGORY	GOVT SITE RATE	CONTRACTOR SITE RATE
1	Program Manager		\$244.03
2	Project Manager		\$235.74
3	Principal Technologist	\$187.96	\$245.76
4	Divisional Technologist		\$226.80
5	Senior Technical Professional	\$134.29	\$193.99
6	Technical Professional		\$156.66
7	Staff Technical Professional		\$144.73
8	Senior Data Control Specialist		\$116.37
9	Project Administrator		\$86.26
10	Administrative Support		\$73.24
11	Technical Writer		\$83.33
12	Network Engineer		\$138.88

TRAVEL G&A RATE 23.9%

OPTION PERIOD 2 (1 OCT 11 – 30 SEP 12)

LABOR CATEGORY NO.	LABOR CATEGORY	GOVT SITE RATE	CONTRACTOR SITE RATE
1	Program Manager		\$252.57
2	Project Manager		\$243.99
3	Principal Technologist	\$194.54	\$254.36
4	Divisional Technologist		\$234.74
5	Senior Technical Professional	\$138.99	\$200.78
6	Technical Professional		\$162.14
7	Staff Technical Professional		\$149.79
8	Senior Data Control Specialist		\$120.44
9	Project Administrator		\$89.28
10	Administrative Support		\$75.81
11	Technical Writer		\$86.25
12	Network Engineer		\$143.75

TRAVEL G&A RATE 23.9%

OPTION PERIOD 3 (1 OCT 12 – 30 SEP 13)

LABOR CATEGORY NO.	LABOR CATEGORY	GOVT SITE RATE	CONTRACTOR SITE RATE
1	Program Manager		\$261.41
2	Project Manager		\$252.53
3	Principal Technologist	\$201.35	\$263.26
4	Divisional Technologist		\$242.95
5	Senior Technical Professional	\$143.86	\$207.81
6	Technical Professional		\$167.82
7	Staff Technical Professional		\$155.04
8	Senior Data Control Specialist		\$124.66
9	Project Administrator		\$92.40
10	Administrative Support		\$78.46
11	Technical Writer		\$89.27
12	Network Engineer		\$148.78

TRAVEL G&A RATE 23.9%

ATTACHMENT

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BBN TECHNOLOGIES

**BBN TECHNOLOGIES CORP.
10 MOULTON STREET
CAMBRIDGE, MA 02138
TELEPHONE: (617) 873-8000**

**MEMORANDUM OF AGREEMENT REGARDING
SMALL BUSINESS, HUBZONE SMALL BUSINESS, SMALL DISADVANTAGED BUSINESS,
WOMEN-OWNED SMALL BUSINESS, VETERAN-OWNED SMALL BUSINESS AND
SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS SUBCONTRACTING
MASTER PLAN**

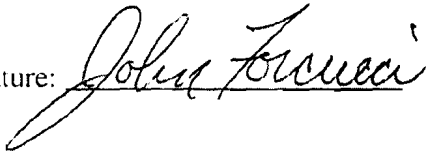
Prepared by:

John Forcucci*
Small Business Liaison Officer
BBN Technologies Corp.
87 Fawcett Street
Cambridge, MA 02138
Tel: 617-873-3365

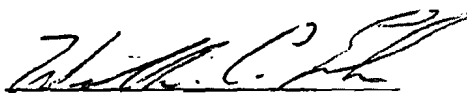
Approved by:

William C. Earle
Vice President, Chief Accounting Officer
BBN Technologies Corp.
10 Moulton Street
Cambridge, MA 02138
Tel: 617-873-1824

Signature:

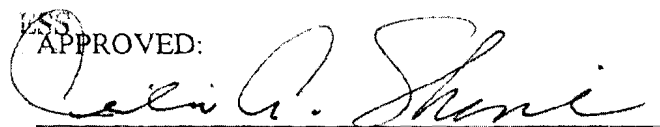


Signature:

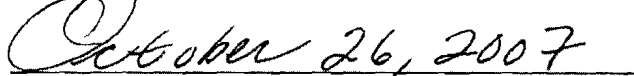


Period covered: October 1, 2007 through September 30, 2010

APPROVED:



Cecilia A. Shine
Administrative Contracting Officer
DCMA BOSTON



Date

*Please direct all correspondence to the Small Business Liaison Officer at this address.

Section I	Company Backgrounder
Section II	Statement of Corporate Policy on Small Business, HUBZone Small Business, Small Disadvantaged Business, Women-Owned Small Business, Veteran-Owned Small Business and Service-Disabled Veteran-Owned Small Business Utilization.
Section III	Dissemination of Policy Statements
Section IV	Responsibility for Implementation
Section V	Products and Services to be Subcontracted or Purchased.
Section VI	Action-Oriented Programs
Section VII	Internal Audit and Reporting Systems

SECTION I
COMPANY BACKGROUNDER

BBN Technologies Corp.

COMPANY BACKGROUND

Addresses:

10 Moulton Street
Cambridge, MA 02138
(617) 873-8000 (telephone)
(617) 873-5011 (fax)
Internet Address: <http://www.bbn.com>

Offices:

Main campus is located in Cambridge, Massachusetts, with key locations in Arlington, VA, Columbia, MD and Middletown RI.

Strategy

BBN Technologies Corp. Profile:

For over 50 years, the BBN name has been synonymous with technical innovation. Since providing the acoustical design of the UN General Assembly Hall, to implementing and operating the ARPANET, the forerunner of today's Internet, we have pioneered a number of firsts: the first packet switch, the first router, and the first network email, which established the @ sign as an icon for the digital age. We also designed, built, and operated the Defense Data Network. Today BBN scientists and engineers are pioneering new innovations to help our customers work better and smarter.

BUSINESS UNIT: NETWORK TECHNOLOGIES

Business Team: Mobile Networking Systems

Mobile Networking Systems Description

The Mobile Networking Systems (MNS) team focuses on:

- Applied research and advanced development of mobile ad-hoc networks (i.e., networks in which connectivity maps and link states change rapidly and continuously)
- Incorporation of the results of this advanced development into real-world systems through systems architecture, software development, and integration and testing of key components of mission-critical software

The MNS staff includes system architects, software developers, computer scientists, network engineers, modeling and simulation specialists, experts in RF propagation, hardware developers, test engineers, and quality assurance and infrastructure support staff.

Our primary customers in the applied research and advanced development area are DARPA and DARPA-like agencies. Our primary customers for deliverable end products are US DoD agencies and prime contractors developing systems for these agencies.

Business Team: Network Research

Network Research Description

The Network Research team performs basic and applied research in a diverse set of technical areas within the overall networking domain. Novel solutions to customer requirements are designed, analyzed, and validated via simulations, prototypes, and/or measurements as appropriate. Prototypes developed by the team range from small proof-of-concept software implementations through large-scale software systems that may integrate 3rd-party hardware or software.

The team's areas of interest include:

- Network infrastructure security
- Network-based intrusion detection and mitigation
- New mobile & wireless network system architectures, algorithms, and protocols
- Effective service provision in the presence of severe network connectivity disruptions
- Network and computer forensic technologies and systems
- Very high speed hardware/software systems, including routers & network security devices
- Novel routing solutions
- End-to-end transport protocol research
- New network management methods and architectures
- Network understanding techniques
- Efficient spectrum management
- Satellite networks, including satellite/Internet integration

BUSINESS UNIT: INFORMATION & KNOWLEDGE TECHNOLOGIES

Business Team: Intelligent Computing

Intelligent Computing Description

The Intelligent Computing team conducts research, development, and advanced proof-of-concept prototyping. The team's technology focus is in the areas of artificial intelligence and the application of inexpensive immersive simulation technology to the development of training systems.

Current areas of interest include:

- Research and development of machine learning systems.
- Development of planning and decision support capabilities based on case-based and other machine reasoning techniques.
- Development of systems for training in real-time decision-making and tactics, based on lightweight simulation environments (LWSEs).

- Application of LWSEs to investigate and improve leadership and team interaction.

Business Team: Modeling & Planning Systems

Modeling & Planning Systems Description

The Modeling and Planning Systems team designs, builds, and maintains modeling, simulation, and planning tools and systems for the end user. The team's technology focus is on modeling, simulation, and planning, with application focus areas in transportation and logistics. Our bottom-line mission is to build systems that end users will use and trust.

Current areas of interest include:

- Detailed modeling of transportation of assets from CONUS to theater
- Detailed modeling of airports and seaports
- Integration and federation of transportation models
- User-centered design techniques for modeling and decision support systems
- Logistics Planning, Execution and Requirements Generation

BUSINESS UNIT: SENSING & CONTROL SYSTEMS

Business Team: Distributed Sensing Solutions

Distributed Sensing Solutions Description

The Distributed Sensing Solutions team solves challenging problems of high importance to our customers in the Department of Defense, the Intelligence Community, and Industry by rapidly prototyping systems for sensing complex physical phenomena, correlating them to events of interest, and producing high-value, actionable information from the sensed data. The team specializes in delivering networked sensor system solutions by combining a strong understanding of the underlying physics, high-fidelity modeling and simulation of complex signature and propagation phenomena, deep expertise in signal processing and computer science, proven capabilities in system development, and mature tools to enable rapid design cycles from theory to demonstration.

Current areas of interest include:

- High-fidelity modeling, prediction, analysis and exploitation of acoustic, seismic, infrasonic and electromagnetic signatures and propagation in complex media
- Advanced signal processing for extracting target and event signature information from sensed data
- Networking and fusion of multiple sensors for complex signature and event characterization, and for detection, localization, classification and tracking of challenging targets against complicated backgrounds
- Development and application of sensing systems for autonomous vehicles
- Development of high performance custom hardware using advanced COTS-based platforms and tools.
- Rapid prototyping of complex real-time multi-sensor systems

Business Team: Embedded Computing & Signal Technologies

Embedded Computing & Signal Technologies Description

The Embedded Computing & Signal Technologies team performs applied research, builds proof of concept demonstrations, prototypes, simulations, and highly reliable operational systems to solve our customers' hardest problems. The team specializes in the development of technologies, applications, and systems for transmission and acquisition of signals, embedded real time signal processing, control systems, environmental modeling and simulation, and underwater acoustics.

Embedded Computing & Signal Technologies Focus areas include:

- Operational systems development and integration for maritime signal acquisition, analysis and exploitation
- Modeling of environmental phenomena and simulation / stimulation of military operational systems
- Development and implementation of low bit-rate (<300bps) vocoder to improve speech intelligibility in noisy environments
- Modeling, experimentation, and data fusion to locate and characterize UGFs
- Exploitation of EM phenomenologies to locate targets of interest, and defeat of IEDs

BUSINESS UNIT: NATIONAL INTELLIGENCE RESEARCH & APPLICATIONS

Business Team: Enterprise Solutions

Enterprise Solutions Description

The Enterprise Solutions team performs advanced research and system development for complex data environments through intelligent middleware, comprehensive semantics, knowledge modeling, and sophisticated data management techniques.

Business Team: Information Systems & Security Solutions

Information Systems & Security Solutions Description

The Information Systems and Security team is engaged in projects that address information security and the development of systems concerning the collection, storage, analysis and security of information for all levels of computer networks.

The areas of focus include:

- Information Security (Public Key Infrastructure, protocol design, secure architectures)
- Cyber Situation Awareness
- Red Teaming
- Semantic Web
- Prototype Development

Business Team: Speech & Language Research

Business Team: Multi-Media Technologies & Solutions

Multi-Media Technologies & Solutions Description

The Multi-media Technologies and Solutions team leverages our research advances to develop integrated systems and prototypes, perform application-focused research and customization, and to deploy customized and turnkey software/hardware solutions in human language and document/image analysis areas.

Current areas of interest include:

- Information Extraction from Text
- Speech Recognition and Speech-to-Speech Translation
- Question Answering
- Topic Classification and Analysis/Mining of Unstructured Data
- Document Understanding
- Video Analysis and Content Extraction
- Image Retrieval
- Broadcast Monitoring
- Speech Triage
- Multimedia Content Exploitation

Speech & Language Research Description

The Speech and Language Research team is focused on advancing the state of the art in speech and natural language processing through the development of novel algorithms and techniques that enable us to develop better solutions for Government needs.

SECTION II

STATEMENT OF CORPORATE POLICY ON SMALL BUSINESS,
HUBZONE SMALL BUSINESS, SMALL DISADVANTAGED BUSINESS,
WOMEN-OWNED SMALL BUSINESS, VETERAN-OWNED SMALL
BUSINESS AND SERVICE-DISABLED VETERAN-OWNED SMALL
BUSINESS UTILIZATION

STATEMENT OF CORPORATE POLICY

It is BBN's policy as a government prime contractor and subcontractor to actively participate in the government's subcontracting program from small businesses, HUBZone small businesses, small disadvantaged businesses, women-owned small businesses, veteran-owned small businesses and service-disabled veteran-owned small businesses and other minority institutions as promulgated in Federal Acquisition Regulation (FAR) 52.219-8 and Public Laws 95-507, Section 211; 99-661, Section 207; 100-180, Section 806; 100-656.

BBN shall afford maximum practicable opportunity to small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns to participate in the performance of contracts awarded to BBN. Participation may be achieved by subcontracting part of the work required by a contract, as well as by purchasing supplies and services for contracts, internal jobs, overhead and G & A from small businesses, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns.

BBN shall enable small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns to be considered fairly as subcontractors and to be given an equitable opportunity to compete for subcontract awards. BBN will aid and encourage small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns by awarding orders on a competitive basis, whenever they are capable of fulfilling requirements and price, quality and delivery.

In accordance with the requirements of the FAR, BBN will comply with the following clauses. In addition, BBN will include these clauses, in accordance with the FAR, in contracts awarded by BBN to its subcontractors.

- (a) FAR clause 52.219-8, Utilization of Small Business Concerns, shall be included in all contracts exceeding \$100,000, unless the contract, together with all its subcontracts, is to be performed entirely outside of any State, territory, or possession of the United States, the District of Columbia and the Commonwealth of Puerto Rico or those which are for personal services in nature.
- (b) FAR clause 52.219-9, Small Business Subcontracting Plan, shall be included in all solicitations for negotiated contracts or modifications (including contracts and modifications placed on a sole source basis) which (a) offer subcontracting possibilities, (b) are expected to exceed \$550,000 (\$1,000,000 for the construction of any public facility) and (c) are required to include clause 52.219-8, Utilization of Small Business Concerns, unless the acquisition is a set aside or is to be accomplished under the 8(a) program.

FAR clause 52.219-8: Utilization of Small Business Concerns (May 2004)

- (a) It is the policy of the United States Government that small business concerns, veteran-owned small business concerns, serviced-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small

business concerns shall have the maximum practicable opportunity to participate in performing contracts let by any Federal agency, including contracts and subcontracts for subsystems, assemblies, components, and related services for major systems. It is further the policy of the United States that its prime contractors establish procedures to ensure the timely payment of amounts due pursuant to the terms of their subcontracts with small business concerns, veteran-owned small business concerns, serviced-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns.

- (b) BBN hereby agrees to carry out this policy in the awarding of subcontracts to the fullest extent consistent with efficient contract performance. BBN further agrees to cooperate in any studies or surveys as may be conducted by the United States Small Business Administration or the awarding agency of the United States as may be necessary to determine the extent of BBN's compliance with this clause.

- (c) Definitions. As used in this contract -

HUBZone small business concern means a small business concern that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.

Service-disabled veteran-owned small business concern means a small business concern not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans and whose management and daily business operations are controlled by one or more of such individuals.

Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101 (16).

Small business concern means a small business as defined pursuant to Section 3 of the Small Business Act and relevant regulations promulgated pursuant thereto.

Small disadvantaged business concern means a small business that represents, as part of its offer, that it has received certification as a small disadvantaged business concern consistent with 13 CFR part 124, subpart B and it is identified, on the date of its representation, as a certified small disadvantaged business in the database maintained by the Small Business Administration (Central Contractor Registration - Dynamic Small Business Search).

Veteran-owned small business concern means a small business concern not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans and whose management and daily business operations are controlled by one or more of such individuals.

Women-owned small business concern means a small business concern not less than 51 percent of which is owned by one or more women or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more women and whose management and daily business operations are controlled by one or more of such individuals.

- (d) BBN acting in good faith may rely on written representations by its subcontractors regarding their status as either a small business concern, a veteran-owned small business concern, a service-disabled veteran-owned small business concern or a women-owned small business concern. Small disadvantaged business concerns and HUBZone small business concerns must supply a certificate from the Small Business Administration confirming their status.

FAR clause 52.219-9: Small Business Subcontracting Plan (September 2006)

- (a) This clause does not apply to small business concerns.

- (b) Definitions. As used in this clause –

"Commercial Item" means a product or service that satisfies the definition of commercial item in section 2.101 of the Federal Acquisition Regulation. It also means a product that in the opinion of the Contracting Officer differs only insignificantly from BBN's commercial product.

"Subcontract" means any agreement (other than one involving an employer-employee relationship) entered into by a Federal Government prime Contractor or subcontractor calling for supplies or services required for performance of the contract or subcontract.

- (c) BBN, upon request by the Contracting Officer, shall submit and negotiate a subcontracting plan, where applicable, that separately addresses subcontracting with small business concerns, veteran-owned small business concerns, serviced-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns veteran-owned small business concerns and service-disabled veteran-owned small business concerns which shall be included in and made a part of the resultant contract. The subcontracting plan shall be negotiated within the time specified by the Contracting Officer. Failure to submit and negotiate the subcontracting plan shall make BBN ineligible for award of a contract.
- (d) The BBN's subcontracting plan shall include the following:
 - (1) Goals, expressed in terms of percentages of total planned subcontracting dollars, for the use of small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns as subcontractors. BBN shall include all subcontracts that contribute to contract performance, and may include a proportionate share of products and services that are normally allocated as indirect costs. Direct procurement goals are established by review of the proposal/contract bill of materials to ensure that maximum practical opportunity shall be afforded to such businesses.

When developing indirect costs for a program, the dollar value of the program, on an annual basis, is divided by BBN's annual sales. This factor is then multiplied by the budgeted indirect procurements for large businesses, small businesses, HUBZone small business, small disadvantaged businesses, women-owned small businesses, veteran-owned small businesses and service-disabled veteran-owned small businesses and the resultant dollar amount is allocated as indirect procurement dollars to the subcontracting plan for the program.

- (2) A statement of (i) total dollars planned to be subcontracted, (ii) total dollars planned to be subcontracted to small business concerns, (iii) total dollars planned to be subcontracted to HUBZone small business concerns, (iv) total dollars planned to be subcontracted to small disadvantaged business concerns, (v) total dollars planned to be subcontracted to women-owned small business concerns, (vi) total dollars planned to be subcontracted to veteran-owned small business concerns and (vii) total dollars planned to be subcontracted to service-disabled veteran-owned small business concerns.
- (3) A description of the principal types of supplies and services to be subcontracted, and an identification of the types planned for subcontracting to (i) small business concerns, (ii) HUBZone small business concerns, (iii) small disadvantaged business concerns, (iv) women-owned small business concerns, (v) veteran-owned small business concerns and (vi) service-disabled veteran-owned small business concerns.
- (4) A description of the method used to develop the subcontracting goals in (d) (1) above.
- (5) A description of the method used to identify potential sources for solicitation purposes. BBN uses existing company source lists, the Dynamic Small Business Search Section of the Central Contractor Registration (CCR) which replaced the Procurement Marketing and Access Network (PRO-Net) of the Small Business Administration (SBA), veterans service organizations, the National Minority Supplier Development Counsel Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or small, HUBZone, small disadvantaged, and women-owned small business trade associations.
- (6) A statement as to whether or not BBN included indirect costs in establishing subcontracting goals, and a description of the method used to determine the proportionate share of indirect and overhead costs incurred with (i) small business concerns, (ii) HUBZone small business concerns, (iii) small disadvantaged business concerns, (iv) women-owned small business concerns, (v) veteran-owned small business concerns and (vi) service-disabled veteran-owned small business concerns.
- (7) The name of the individual employed by BBN who will administer BBN's subcontracting program, and a description of the duties of the individual.
- (8) A description of the efforts BBN will make to assure that small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns will have an equitable opportunity to compete for subcontracts.
- (9) Assurances that BBN will include the clause in this contract, entitled "Utilization of Small Business Concerns" in all subcontracts that offer further subcontracting opportunities, and that BBN will require all subcontractors (except small business concerns) that receive subcontracts in excess of \$550,000 (\$1,000,000 for the construction of any public facility) to adopt a subcontracting plan similar to the plan agreed to by BBN.
- (10) Assurance that BBN will (i) cooperate in any studies or surveys as may be required, (ii) submit periodic reports in order to allow the government to determine the extent of

compliance by BBN with the subcontracting plan, (iii) submit Standard Form (SF) 294, Subcontracting Report for Individual Contracts, and/or SF 295, Summary Subcontract Report, in accordance with the instructions on the forms, and (iv) ensure that its subcontractors agree to submit Standard Forms 294 and 295.

- (11) A description of the types of records BBN will maintain concerning procedures that have been adopted to comply with the requirements and goals in the plan, including establishing source lists; and a description of its efforts to locate small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns and award subcontracts to them. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated):
- (i) Source lists (e.g., Central Contractor Registration - Dynamic Small Business Search of the Small Business Administration), guides, and other data that identify small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns.
 - (ii) Organizations contacted in an attempt to locate sources that are small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns.
 - (iii) Records on each subcontract solicitation resulting in an award of more than \$100,000 indicating (a) whether small business concerns were solicited, and if not, why not; (b) whether HUBZone small business concerns were solicited, and if not why, (c) whether small disadvantaged business concerns were solicited, and if not, why not; (d) whether women-owned small business concerns were solicited and if not, why not, (e) whether veteran-owned small business concerns were solicited, and if not, why not, (f) whether service-disabled veteran-owned small business concerns were solicited, and if not, why not, and (g) if applicable, the reason award was not made to a small business concern.
 - (iv) Records of any outreach efforts to contact: (a) trade associations, (b) business development organizations, (c) conferences and trade fairs and (d) veteran service organizations.
 - (v) Records of internal guidance and encouragement provided to buyers through, (a) workshops, seminars, training, etc., and (b) monitoring performance to evaluate compliance with the program's requirements.
 - (vi) On a contract-by-contract basis, records to support award data submitted by BBN to the Government, including the name, address, and business size of each subcontractor. Contractors having commercial plans need not comply with this requirement.
- (e) In order to effectively implement this plan to the extent consistent with efficient contract performance, BBN shall perform the following functions:

- (1) Assist small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation by such concerns. Where BBN's lists of potential small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business subcontractors are excessively long, reasonable effort shall be made to give all such small business concerns an opportunity to compete over a period of time.
 - (2) Provide adequate and timely consideration of the potentialities of small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns in all "make-or-buy" decisions.
 - (3) Counsel and discuss subcontracting opportunities with representatives of small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns.
- (f) If a commercial product is offered, the subcontracting plan required by this clause may relate to BBN's production generally, for both commercial and non-commercial products, rather than solely to the Government contract. In these cases, BBN shall, with the concurrence of the Contracting Officer, submit one company-wide or division-wide plan.
- The plan shall be reviewed for approval by the agency awarding BBN its first prime contract requiring a subcontracting plan during the fiscal year, or by an agency satisfactory to the Contracting Officer.
- The approved plan shall remain in effect during BBN's fiscal year(s) for all of BBN's commercial products.
- (g) Prior compliance of BBN with other such subcontracting plans under previous contracts will be considered by the Contracting Officer in determining the responsibility of BBN for award of the contract.
 - (h) The failure of BBN or subcontractor to comply in good faith with (1) the clause of this contract entitled "Utilization of Small Business Concerns"; or (2) an approved plan required by this clause, shall be a material breach of the contract.

SECTION III
DISSEMINATION OF POLICY STATEMENTS

DISSEMINATION OF POLICY STATEMENTS

In order to effectively disseminate BBN's corporate policy regarding Utilization Small Business Concerns, as promulgated in Federal Acquisition Regulation (FAR) 52.219-8, and Public Law 95-507 Section 211, a memo, including a copy of corporate policy, has been issued to all department managers and all other respective employees effected by said policy.

Additionally, BBN's corporate policy will become an integral part of the BBN Purchasing Procedures Manual, which is distributed to, and followed by, all of BBN's purchasing/buying personnel.

SECTION IV
RESPONSIBILITY FOR IMPLEMENTATION

RESPONSIBILITY FOR IMPLEMENTATION

The Small Business Liaison Officer, John Forcucci, will cooperate with purchasing management and will assume responsibility of the following:

- (1) Maintain liaison on small business matters with BBN's Cognizant Federal Agency (DCMA, Boston, 495 Summer St, Boston MA 02210);
- (2) Supervise compliance with the "Utilization of Small Business Concerns" clause;
- (3) Administer the company's Small Business, HUBZone Small Business, Small Disadvantaged Business, Women-Owned Small Business, Veteran-Owned Small Business and Service-Disabled Veteran-Owned Small Business Concerns Subcontracting Program; and
- (4) Distribute to Purchasing personnel data received from DCMA Deputy for Small Business and the Small Business Administration; and
- (5) Assure that buying personnel comply with the provisions of the program;
- (6) Assure that Purchasing personnel shall serve on committees rendering "Make-or-Buy" decisions and give due consideration to potentialities of small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns.
- (7) Determine the "large" or "small" status of all suppliers.
- (8) When inquiries are received from other companies that are soliciting business from BBN under the Small Business Program, they shall be referred to the Small Business Liaison Officer, who will refer them to the applicable buying personnel for consideration;
- (9) Invitations to BBN to participate in exhibits, conferences, or shows sponsored by the Small Business Administration or otherwise clearly connected with advancement of small business concerns shall be referred to the company Small Business Liaison Officer for decision as to BBN's participation.
- (10) Prepare and submit subcontract goals for individual proposals/contracts utilizing the form entitled "Subcontracting Plan Goals submitted under BBN Technologies Corp. Subcontracting Master Plan in accordance with Public Law 95-507" (See Exhibit A).
- (11) Prepare Standard Form 294, Subcontracting Report for Individual Contracts, and Standard Form 295, Summary Subcontract Report, in accordance with the instructions on the forms.
- (12) Cooperate with the DCMA Contracting Officer in any studies or surveys of our subcontracting procedures that he/she may wish to conduct.

SECTION V
PRODUCTS AND SERVICES TO BE SUBCONTRACTED
OR PURCHASED

PRODUCTS AND SERVICES THAT ARE COMMONLY
PURCHASED BY BBN TECHNOLOGIES

- Consulting/Engineering services
- Office equipment and supplies
- Transportation and freight services
- Computer Supplies
- Desktop Computers
- Computer Software
- Printing services
- Electronic components
- Fabricated sheet metal
- Printed circuit boards
- Facilities/Maintenance/Repairs/Operations
- Facilities/Construction/Renovation

SECTION VI
ACTION-ORIENTED PROGRAMS

ACTION-ORIENTED PROGRAMS

Purchasing Personnel will:

- 1) Assure that small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns have equitable opportunity to quote by:
 - a) Reviewing all requisitions for small business potential.
 - b) Interviewing all sales representatives who call upon the Purchasing organization.
 - c) Using small business listings (obtainable from the regional offices of the Small Business Administration) to develop new sources of supply.
 - d) Referring to indexed lists of small business suppliers (Dynamic Small Business Search Section of the Central Contractor Registration (CCR) of the Small Business Administration and National Minority Supplier Development Counsel Vendor Information Service).
 - e) Exchanging information on new and potential suppliers with other company locations.
 - f) Allowing sufficient time for the preparation of suppliers' quotations.

NOTE: Where long lists of potential small business suppliers are maintained, reasonable effort shall be made to give all such small business concerns an opportunity to compete over a period of time.

- 2) Request quotations and place contracts and purchase orders with small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns when consistent with good business practice.
- 3) When buying considerations with respect to two or more potential suppliers are equal, the business shall be placed with the small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns.
- 4) If practical, and only with approval of the ordering organization, adjust quantities, specifications, and/or delivery schedules to enable placing business with small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns.
- 5) Buying personnel shall utilize source lists, (e.g., CCR), guides and other data that identify small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business concerns.

- 6) When placing purchasing arrangements valued in excess of \$100,000 (except those to be performed entirely outside of and State, territory, or possession of the United States, the District of Columbia, and the Commonwealth of Puerto Rico or for personal services contracts), incorporate the provisions of the following clause by reference:

"FAR Clause 52.219-8 Utilization of Small Business Concerns"

In contracts that contain the clause referenced above and are valued in excess of \$550,000 (\$1,000,000 for construction of any public facility), insert the following additional reference:

"FAR Clause 52.219-9 Small Business Subcontracting Plan"

NOTE: The above FAR references, and the introductory and transitional language necessary to incorporate such clauses by reference, are preprinted on the appropriate contract riders in the company instructions, and are also preprinted on the Government Contract provisions of the Purchase Order form.

SECTION VII
INTERNAL AUDIT AND REPORTING SYSTEMS

INTERNAL AUDIT AND REPORTING SYSTEMS

- 1) Monthly reports will be prepared via an electronic file that tracks dollar commitments and purchase order volume by the business categories and geographical areas. These reports, which can be sorted by individual buyer, record both departmental performance and individual buyer performance. The electronic file also permits BBN to track purchase order commitments by contract number.
- 2) For all purchase orders exceeding \$100,000, the purchasing files shall also indicate:
 - (a) The reason for non-solicitation of small business, if such was the case; or
 - (b) The reason for the failure of small business to receive the award, if such was the case when small business was solicited.
- 3) The BBN Purchasing department maintains an Affirmative Action Acquisition reference library that contains literature on small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business consultants and suppliers and a nationwide selection of Minority Purchasing directories from areas such as New England, New York, Los Angeles and Washington, D.C. BBN also has access to Dynamic Small Business Search Section of the Central Contractor Registration (CCR) of the Small Business Administration.
- 4) Individual goals will be set for each buyer and the Small Liaison Officer shall review the buyer's performance periodically. Their performance in meeting small business, HUBZone small business, small disadvantaged business, women-owned small business, veteran-owned small business and service-disabled veteran-owned small business goals will become part of the buyers' overall job performance evaluation.

SUBCONTRACTING PLAN GOALS
IN SUPPORT OF SOLICITATION HTC711-09-R-0038

SUBMITTED AS AN ADDENDUM TO
BBN TECHNOLOGIES CORP.
SUBCONTRACTING MASTER PLAN

1. BBN Proposal No.: P09-BBN-170
2. Contractor Name: BBN Technologies Corp.
3. Name of Individual completing plan: John Forcucci
Telephone Number: (617) 873-8110
4.

A.	Total Proposed Contract Amount	<u>\$13,000,000</u>	over	<u>48</u>	months
B.	Total Amount to be Subcontracted	<u>\$4,724,500</u>			<u>36.3</u> % of A
1.	Total Large Business	<u>\$1,084,500</u>		<u>23.0</u> % of B;	<u>8.3</u> % of A
2.	Total Small Business	<u>\$3,640,000</u>		<u>77.0</u> % of B;	<u>28.0</u> % of A
a.	Non-Disadvantaged SB	<u>\$1,937,000</u>		<u>41.0</u> % of B;	<u>14.9</u> % of A
b.	Disadvantaged SB	<u>\$325,000</u>		<u>6.9</u> % of B;	<u>2.5</u> % of A
c.	Women-Owned SB	<u>\$325,000</u>		<u>6.9</u> % of B;	<u>2.5</u> % of A
d.	HBCU & MI	<u>\$65,000</u>		<u>1.4</u> % of B;	<u>0.5</u> % of A
e.	HUBZone SB	<u>\$208,000</u>		<u>4.4</u> % of B;	<u>1.6</u> % of A
f.	Veteran-Owned SB	<u>\$390,000</u>		<u>8.2</u> % of B;	<u>3.0</u> % of A
g.	Service-Disabled Vet SB	<u>\$390,000</u>		<u>8.2</u> % of B;	<u>3.0</u> % of A
5. The above goals, submitted in accordance with BBN Technologies' Annual Small Business and Small Disadvantaged Business Subcontracting Master Plan, as supplemented by the subcontracting requirements established by Solicitation HTC711-09-R-0038, include both Direct Goals and Indirect Goals. Although the subcontracting goals established under the contract resulting from Solicitation HTC711-09-R-0038BBN will be challenging to meet in the first year, the option years, if exercised, will afford BBN over the anticipated life of the contract with the opportunity to meet and possibly exceed the established goals.

BBN Technologies Corp.

John Forcucci

By:

John Forcucci
Small Business Liaison Officer

Date: September 28, 2009

BBN Proposal No.: P09-BBN-170 FY08 BBN Technologies Corp. Annual Sales: \$200,000,000

1. The Total Estimated Cost of Subcontracts includes Direct Cost Subcontracts and Indirect Cost Subcontracts. The breakdown is as follows:

	Direct Cost Subcontracts	Indirect Cost Subcontracts	Total	Percent of Sub Amt	Percent of Contract Amt
Non-Disadvantaged Small Business	\$1,912,600	\$24,400	\$1,937,000	41.0%	14.9%
Small Disadvan. Business	\$323,800	\$1,200	\$325,000	6.9%	2.5%
Women Owned Small Business	\$323,600	\$1,400	\$325,000	6.9%	2.5%
Hist. Black Colleges & Univ and Minority Instit.	\$65,000	\$0	\$65,000	1.4%	0.5%
HUBZone Small Business	\$207,900	\$100	\$208,000	4.4%	1.6%
Veteran-Owned SB	\$389,600	\$400	\$390,000	8.2%	3.0%
Service-Disabled Vet SB	\$389,900	\$100	\$390,000	8.2%	3.0%
Large Business	\$1,060,500	\$24,000	\$1,084,500	23.0%	8.3%
TOTAL	\$4,672,900	\$51,600	\$4,724,500	100.0%	36.3%

2. Indirect Cost Subcontracts

The Estimated Cost of Prime Contract is \$13,000,000 over 48 months. This is 1.6% of the FY08 Annual Company Sales on an annualized basis. For this subcontracting plan, 0.2% of orders placed with Small, Small Disadvantaged, Women-Owned, HUBZone, Veteran-Owned, Service-Disabled Veteran-Owned and Large businesses charged to Overhead and G&A Accounts are allocable to this contract.

a. Small Business

BBN Technologies Corp. anticipates placing a total of about \$24,400,000 in orders with Small Businesses during its fiscal year 2009. We estimate about 50% of these orders are charges to Overhead and G&A accounts, or about \$12,200,000. The Small Indirect Cost Subcontracts for this contract is 0.2% of these orders or \$24,400.

b. Small Disadvantaged Business

BBN Technologies Corp. anticipates placing a total of about \$600,000 in orders with Small Disadvantaged Businesses during its fiscal year 2009. Virtually all 100% of these orders are charges to Overhead and G&A accounts. The Small Disadvantaged Indirect Cost Subcontracts for this contract is 0.2% of these orders or \$1,200.

c. Women-Owned Small Business

BBN Technologies Corp. anticipates placing a total of about \$700,000 in orders with Women Owned Small Business during its fiscal year 2009. Virtually all 100% of these orders are charges to Overhead and G&A accounts. The Women Owned Indirect Cost Subcontracts for this contract is 0.2% of these orders or \$1,400.

d. HUBZone Small Business

BBN Technologies Corp. anticipates placing a total of about \$50,000 in orders with HUBZone Small Business during its fiscal year 2009. Virtually all 100% of these orders are charges to Overhead and G&A accounts. The HUBZone Indirect Cost Subcontracts for this contract is 0.2% of these orders or \$100.

e. Veteran-Owned Small Business

BBN Technologies Corp. anticipates placing a total of about \$200,000 in orders with Veteran-Owned Small Business during its fiscal year 2009. Virtually all 100% of these orders are charges to Overhead and G&A accounts. The Veteran-Owned Indirect Cost Subcontracts for this contract is 0.2% of these orders or \$400.

f. Service-Disabled Veteran-Owned Small Business

BBN Technologies Corp. anticipates placing a total of about \$50,000 in orders with Service-Disabled Veteran-Owned Small Business during its fiscal year 2009. Virtually all 100% of these orders are charges to Overhead and G&A accounts. The Service-Disabled Veteran-Owned Indirect Cost Subcontracts for this contract is 0.2% of these orders or \$100.

g. Large Business

BBN Technologies Corp. anticipates placing a total of about \$24,000,000 in orders with Large Businesses during its fiscal year 2009. We estimate about 50% of these orders are charges to Overhead and G&A accounts, or about \$12,000,000. The Large Indirect Cost Subcontracts for this contract is 0.2% of these orders or \$24,000.

PRINCIPAL TYPES OF SUPPLIES AND SERVICES TO BE SUBCONTRACTED
BBN Proposal No.: P09-BBN-170

A. DIRECT

<u>Business Categories</u>	<u>Sm. Bus.</u>	<u>Disadvan. Sm. Bus.</u>	<u>WOSB</u>	<u>HUBZone Sm. Bus.</u>	<u>Veteran Sm. Bus</u>	<u>Service- Disabled</u>	<u>Large Bus.</u>
<u>Products and Services</u>							
Engineering Services	X	X	X	X	X	X	X

B. INDIRECT

<u>Business Categories</u>	<u>Sm. Bus.</u>	<u>Disadvan. Sm. Bus.</u>	<u>WOSB</u>	<u>HUBZone Sm. Bus.</u>	<u>Veteran Sm. Bus</u>	<u>Service- Disabled</u>	<u>Large Bus.</u>
<u>Products and Services</u>							
Consulting Services	X	X	X		X		X
Office equipment and supplies	X	X					X
Transportation and freight services	X	X					X
Desktop computers	X	X	X	X			X
Computer supplies and software	X	X	X	X	X	X	X
Printing services	X	X					X
Electronic components	X	X					X
Fabricated sheet metal	X						X
Printed circuit boards	X						
Machined Parts	X	X					
Facilities/Maintenance/Repairs/Operations	X	X	X	X	X		X
Facilities/Construction/Renovation	X	X			X		X

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1 CONTRACT ID CODE Z	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO P00001		3. EFFECTIVE DATE 29-Oct-2009		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)					
6. ISSUED BY CODE USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) EBN TECHNOLOGIES CORP EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002	
				X 10B. DATED (SEE ITEM 13) 01-Oct-2009	
CODE 306L5		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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 CONTRACT/ORDERS IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
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.					
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).					
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 1.108(d)(3)					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: 1cperjmt080 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to add FAR Clause 52.222-54, Employment Eligibility Verification. The point of contact for this modification is Joe Pereyra, 618-228-4973, joe.pereyra@ustrancom.mil.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Nest Sr. Manager, Contract Relations			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CAREY N GROPP TEL: 618-229-2469 EMAIL:		
15B. CONTRACTOR/OFFEROR EBN Michael C. Nest (Signature of person authorized to sign)		15C. DATE SIGNED 10/29/2009		16B. UNITED STATES OF AMERICA BY Carey N Gropp (Signature of Contracting Officer)	
				16C. DATE SIGNED 3 Nov 09	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

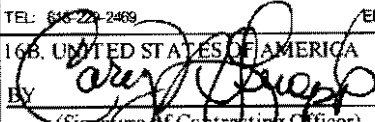
SECTION I - CONTRACT CLAUSES

The following have been added by reference:

52.222-54 Employment Eligibility Verification

JAN 2009

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. P00002	3. EFFECTIVE DATE 23-Nov-2009	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)		
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357	CODE HTC711	7. ADMINISTERED BY (If other than item 6) <div style="text-align: center; font-weight: bold;">See Item 6</div>			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) BBN TECHNOLOGIES CORP EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119		9A. AMENDMENT OF SOLICITATION NO.			
		9B. DATED (SEE ITEM 11)			
		X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002			
		X 10B. DATED (SEE ITEM 13) 01-Oct-2009			
CODE 3U6L5		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.					
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.					
X 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).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: 10perejm10366 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to incorporate the revised DD Form 254, Department of Defense Contract Security Classification Specification, dated 17 Nov 09. The point of contact for this modification is Joe Pereyra, 618-229-4973, joe.pereyra@ustrancom.mil.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CAREY N. GROPP / CONTRACTING OFFICER TEL: 618-229-2489 EMAIL: carey.gropp@ustrancom.mil		
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  BY (Signature of Contracting Officer)		16C. DATE SIGNED 23-Nov-2009	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00002		3. EFFECTIVE DATE 23-Nov-2009		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)	
6. ISSUED BY CODE HTC711 USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002			
				X 10B. DATED (SEE ITEM 13) 01-Oct-2009			
CODE 3U6L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.							
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X 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).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcperejm10366 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to incorporate the revised DD Form 254, Department of Defense Contract Security Classification Specification, dated 17 Nov 09. The point of contact for this modification is Joe Pereyra, 618-229-4973, joe.pereyra@ustranscom.mil.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CAREY N. GROPP / CONTRACTING OFFICER TEL: 618-229-2469 EMAIL: carey.gropp@ustranscom.mil			
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 23-Nov-2009	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following have been modified:

LIST OF ATTACHMENTS

Atch/Exhib NR	FORM NR	TITLE	DATE	NR OF PAGES
1	DD Form 254	DOD Contract Security Classification Specification	17 Nov 09	2
2	N/A	Contract Labor Rate Table	17 Sep 09	4
3	N/A	Small Business Goals & Plan	29 Sep 09	31

(End of Summary of Changes)

**ATTACHMENT
1**

HTC711-10-D-S002

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING	
				a. FACILITY CLEARANCE REQUIRED	
				SECRET	
				b. LEVEL OF SAFEGUARDING REQUIRED	
				SECRET	
2. THIS SPECIFICATION IS FOR: <i>(X and complete as applicable)</i>				3. THIS SPECIFICATION IS: <i>(X and complete as applicable)</i>	
<input checked="" type="checkbox"/> a. PRIME CONTRACT NUMBER <div style="text-align: center;">HTC711-10-D-8002</div>				<input type="checkbox"/> a. ORIGINAL <i>(Complete date in all cases)</i> <div style="text-align: right;">DATE (YYYYMMDD): 20091423</div>	
<input type="checkbox"/> b. SUBCONTRACT NUMBER		<input checked="" type="checkbox"/> b. REVISED <i>(Supersedes all previous specs)</i>		<div style="text-align: right;">REVISION NO: 3</div> <div style="text-align: right;">DATE (YYYYMMDD): 20091117</div>	
<input checked="" type="checkbox"/> c. SOLICITATION OR OTHER NUMBER USTRANSCOM-EP-00002-09		DUE DATE (YYYYMMDD)		<input type="checkbox"/> c. FINAL <i>(Complete item 5 in all cases)</i> <div style="text-align: right;">DATE (YYYYMMDD):</div>	
4. IS THIS A FOLLOW-ON CONTRACT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <i>If Yes, complete the following:</i> Classified material received or generated under FA4452-06-F-0023 <i>(Preceding Contract Number)</i> is transferred to this follow-on contract.					
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <i>If Yes, complete the following:</i> In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.					
6. CONTRACTOR <i>(Include Commercial and Government Entity (CAGE) Code)</i>					
a. NAME, ADDRESS, AND ZIP CODE BBN Technologies Corporation 10 Moulton Street Cambridge, MA 02138-1119		b. CAGE CODE 3U6L5		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> Defense Security Service 495 Summer St. Boston MA 02110-2138	
7. SUBCONTRACTOR					
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>	
8. ACTUAL PERFORMANCE					
a. LOCATION USTRANSCOM Attn: TCJ6 508 Scott Drive Scott AFB, IL 62225 <i>(Or Awarded Contract Facility)</i>		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> Defense Security Service 11132 South Towne Square Suite 205 Saint Louis, MO 63123-7818	
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses. AMP is an agent-based architecture used by analysts to dynamically configure component interactions and integrate additional models in order to obtain an end-to-end simulation of the Defense Transportation System (DTS). AMP allows users to rapidly set up, tailor, and extend transportation and logistics models to support programmatic analysis, war games and exercises, execution, and costing functions.					
10. CONTRACTOR WILL REQUIRE ACCESS TO:		YES/NO		11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		<input checked="" type="checkbox"/>		2. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY	
b. RESTRICTED DATA		<input checked="" type="checkbox"/>		3. RECEIVE CLASSIFIED DOCUMENTS ONLY	
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		<input checked="" type="checkbox"/>		4. RECEIVE AND GENERATE CLASSIFIED MATERIAL	
d. FORMERLY RESTRICTED DATA		<input checked="" type="checkbox"/>		5. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE	
e. INTELLIGENCE INFORMATION		<input type="checkbox"/>		6. PERFORM SERVICES ONLY	
(1) Sensitive Compartmented Information (SCI)		<input checked="" type="checkbox"/>		7. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES	
(2) Non-SCI		<input checked="" type="checkbox"/>		8. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER	
f. SPECIAL ACCESS INFORMATION		<input checked="" type="checkbox"/>		9. REQUIRE A COMSEC ACCOUNT	
g. NATO INFORMATION		<input checked="" type="checkbox"/>		10. HAVE TEMPEST REQUIREMENTS	
h. FOREIGN GOVERNMENT INFORMATION		<input checked="" type="checkbox"/>		11. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS	
i. LIMITED DISSEMINATION INFORMATION		<input checked="" type="checkbox"/>		12. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE	
j. FOR OFFICIAL USE ONLY INFORMATION		<input checked="" type="checkbox"/>		13. OTHER (Specify)	
k. OTHER (Specify) Contractor will have access to SIPRNET at contract facility. SECRET safeguarding is required.		<input checked="" type="checkbox"/>		Building access to USTRANSCOM J6 in support of this contract which requires a SECRET clearance for access by contract personnel. Contract members will also require access to SIPRNET systems.	

12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release. ☐ Direct ☒ Through (Specify)

USTRANSCOM Public Affairs, OPSEC Officer and USTRANSCOM Information Security (Force Protection)

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs) for review. In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract, and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

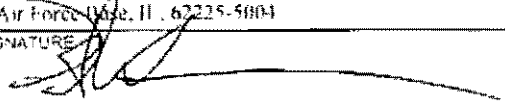
Security Requirements:

- (a.) Contractor shall be responsible for ensuring all security requirements outlined in the Performance Work Statement (PWS) are accomplished after award of the contract.
- (b.) For Official Use Only (FOUO) applies for all unclassified material. Reference DoD 5200.1-R, Appendix 3 and the Under Secretary of Defense for Intelligence memorandum, "Interim Information Security Guidance," dated April 16, 2004, (<http://www.fas.org/spp/othergov/dod/dod041604.pdf>), for specific guidance on the handling and safeguarding of FOUO information.
- (c.) Contract employees physically assigned to USTRANSCOM at SAEF, IL, will attend / complete the following training provided by SDDC G2 as prescribed by DOD, USTRANSCOM and Air Force Instructions: Employee Initial Security Briefing, Annual Security Awareness Training, DOD AT Level I and OPSEC training.
- (d.) Contractors permanently assigned to this contract will obtain Common Access Cards (CAC) once the Trusted Agents (TA) processes the required security information in the Contract Verification System (CVS). Upon receipt of the CAC, permanently assigned contractor employees may obtain the AF-1199 (Restricted Area Badge) if the member meets the requirements set forth in SAEF Instruction 31-101.
- (e.) Visit Authorization Letters (VAL) or Visit Authorization Requests (VAR) are required for all permanently assigned contractor personnel to USTRANSCOM at SAEF, IL. The VAL/VAR request will be received 48 hours prior to start of contractor employees.
- (f.) Visit(s) by contract company personnel not permanently assigned to this contract (company presidents, company security managers, ect.) will require an electronic visit request in the Joint Personnel Adjudication System (JPAS).

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. ☐ Yes ☒ No
(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. ☒ Yes ☐ No
(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)
Contractor facilities that safeguarding classified information and systems will be periodically inspected by the Defense Security Service to validate security requirements for safeguarding.

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL PATRICK M. COLLINS	b. TITLE Chief, Security Services Center	c. TELEPHONE (Include Area Code) 16181 229-7349
d. ADDRESS (Include Zip Code) USTRANSCOM, Force Protection 508 Scott Drive, Bldg 1911 Scott Air Force Base, IL 62225-5001		
e. SIGNATURE 		
17. REQUIRED DISTRIBUTION		
<input checked="" type="checkbox"/> a. CONTRACTOR		
<input checked="" type="checkbox"/> b. SUBCONTRACTOR		
<input checked="" type="checkbox"/> c. DISSEMINATION SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR		
<input checked="" type="checkbox"/> d. U.S. ACTIVITY RESPONSIBLE FOR UNCLASSIFIED SECURITY ADMINISTRATION		
<input checked="" type="checkbox"/> e. ADMINISTRATIVE CONTRACTING OFFICER		
<input checked="" type="checkbox"/> f. OTHERS AS NECESSARY		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00003		3. EFFECTIVE DATE 23-Dec-2009		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)	
6. ISSUED BY CODE HTC711 USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002			
				X 10B. DATED (SEE ITEM 13) 01-Oct-2009			
CODE 3U6L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.							
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.							
X 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).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcperejm10572 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to incorporate the revised DD Form 254 Department of Defense Contract Security Classification Specification, Revision Number 5, dated 3 Dec 09. The point of contact for this modification is Joe Pereyra, 618-229-4973, joe.pereyra@ustranscom.mil.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CAREY N. GROPP / CONTRACTING OFFICER TEL: 618-229-2469 EMAIL: carey.gropp@ustranscom.mil			
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 23-Dec-2009	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following have been modified:

LIST OF ATTACHMENTS

Atch/Exhib NR	FORM NR	TITLE	DATE	NR OF PAGES
1	DD Form 254	DOD Contract Security Classification Specification	3 Dec 09	2
2	N/A	Contract Labor Rate Table	17 Sep 09	4
3	N/A	Small Business Goals & Plan	29 Sep 09	31

(End of Summary of Changes)

**ATTACHMENT
1**

HTC711-10-D-S002

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING			
				a. FACILITY CLEARANCE REQUIRED SECRET			
				b. LEVEL OF SAFEGUARDING REQUIRED SECRET			
2. THIS SPECIFICATION IS FOR: <i>(X and complete as applicable)</i>			3. THIS SPECIFICATION IS: <i>(X and complete as applicable)</i>				
<input checked="" type="checkbox"/>	a. PRIME CONTRACT NUMBER HTC711-10-D-S002			a. ORIGINAL <i>(Complete date in all cases)</i>	DATE (YYYYMMDD) 20090422		
	b. SUBCONTRACT NUMBER		<input checked="" type="checkbox"/>	b. REVISED <i>(Supersedes all previous specs)</i>	REVISION NO. 5 DATE (YYYYMMDD) 20091203		
<input checked="" type="checkbox"/>	c. SOLICITATION OR OTHER NUMBER USTRANSCOM-FP-00002-09	DUE DATE (YYYYMMDD)		c. FINAL <i>(Complete Item 5 in all cases)</i>	DATE (YYYYMMDD)		
4. IS THIS A FOLLOW-ON CONTRACT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under <u>FA4452-06-F-0023</u> <i>(Preceding Contract Number)</i> is transferred to this follow-on contract.							
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.							
6. CONTRACTOR <i>(Include Commercial and Government Entity (CAGE) Code)</i>							
a. NAME, ADDRESS, AND ZIP CODE BBN Technologies Corporation 10 Moulton Street Cambridge, MA. 02138-1119		b. CAGE CODE 3U6L5	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> Defense Security Service 495 Summer St. Boston MA 02110-2138				
7. SUBCONTRACTOR							
a. NAME, ADDRESS, AND ZIP CODE		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i>				
8. ACTUAL PERFORMANCE							
a. LOCATION USTRANSCOM Attn: TCJ6 508 Scott Drive Scott AFB, IL. 62225 <i>(Or Awarded Contract Facility)</i>		b. CAGE CODE	c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> Defense Security Service 11132 South Towne Square Suite 205 Saint Louis, MO. 63123-7818				
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses. AMP is an agent-based architecture used by analysts to dynamically configure component interactions and integrate additional models in order to obtain an end-to-end simulation of the Defense Transportation System (DTS). AMP allows users to rapidly set up, tailor, and extend transportation and logistics models to support programmatic analysis, war games and exercises, execution, and costing functions.							
10. CONTRACTOR WILL REQUIRE ACCESS TO:		YES	NO	11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:		YES	NO
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		<input checked="" type="checkbox"/>		a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY			<input checked="" type="checkbox"/>
b. RESTRICTED DATA			<input checked="" type="checkbox"/>	b. RECEIVE CLASSIFIED DOCUMENTS ONLY			<input checked="" type="checkbox"/>
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION			<input checked="" type="checkbox"/>	c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		<input checked="" type="checkbox"/>	
d. FORMERLY RESTRICTED DATA			<input checked="" type="checkbox"/>	d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		<input checked="" type="checkbox"/>	
e. INTELLIGENCE INFORMATION				e. PERFORM SERVICES ONLY			<input checked="" type="checkbox"/>
(1) Sensitive Compartmented Information (SCI)			<input checked="" type="checkbox"/>	f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES			<input checked="" type="checkbox"/>
(2) Non-SCI			<input checked="" type="checkbox"/>	g. BE AUTHORIZED TO USE THE SERVICES OF DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER			<input checked="" type="checkbox"/>
f. SPECIAL ACCESS INFORMATION			<input checked="" type="checkbox"/>	h. REQUIRE A COMSEC ACCOUNT		<input checked="" type="checkbox"/>	
g. NATO INFORMATION		<input checked="" type="checkbox"/>		i. HAVE TEMPEST REQUIREMENTS		<input checked="" type="checkbox"/>	
h. FOREIGN GOVERNMENT INFORMATION			<input checked="" type="checkbox"/>	j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		<input checked="" type="checkbox"/>	
i. LIMITED DISSEMINATION INFORMATION			<input checked="" type="checkbox"/>	k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		<input checked="" type="checkbox"/>	
j. FOR OFFICIAL USE ONLY INFORMATION		<input checked="" type="checkbox"/>		l. OTHER <i>(Specify)</i>		<input checked="" type="checkbox"/>	
k. OTHER <i>(Specify)</i> Contractor will have access to SIPRNET at contract facility. SECRET safeguarding is required.		<input checked="" type="checkbox"/>		Building access to USTRANSCOM J6 in support of this contract which requires a SECRET clearance for access by contract personnel. Contract members will also require access to SIPRNET systems.			

12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release ☐ Direct ☒ Through (Specify)

USTRANSCOM Public Affairs, OPSEC Officer and USTRANSCOM Information Security (Force Protection)

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review.
*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

Security Requirements:

(a.) Contractor shall be responsible for ensuring all security requirements outlined in the Performance Work Statement (PWS) are accomplished after award of the contract.

(b.) For Official Use Only (FOUO) applies for all unclassified material. Reference DoD 5200.1-R, Appendix 3 and the Under Secretary of Defense for Intelligence memorandum, "Interim Information Security Guidance," dated April 16, 2004, (<http://www.fas.org/sgp/othergov/dod/dod041604.pdf>), for specific guidance on the handling and safeguarding of FOUO information.

(c.) Contract employees physically assigned to USTRANSCOM at SAFB, IL. will attend / complete the following training provided by SDDC G2 as prescribed by DOD, USTRANSCOM and Air Force Instructions: Employee Initial Security Briefing, Annual Security Awareness Training, DOD AT Level 1 and OPSEC training.

(d.) Contractors permanently assigned to this contract will obtain Common Access Cards (CAC) once the Trusted Agents (TA) processes the required security information in the Contract Verification System (CVS). Upon receipt of the CAC, permanently assigned contractor employees may obtain the AF 1199 (Restricted Area Badge) if the member meets the requirements set forth in SAFB Instruction 31-101.

(e.) Visit Authorization Letters (VAL) or Visit Authorization Requests (VAR) are required for all permanently assigned contractor personnel to USTRANSCOM at SAFB, IL. The VAL/VAR request will be received 48 hours prior to start of contractor employees

(f.) Visit(s) by contract company personnel not permanently assigned to this contract (company presidents, company security managers, ect.) will require an electronic visit request in the Joint Personnel Adjudication System (JPAS).

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. ☐ Yes ☒ No
(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)

Sections 10 & 11: NATO access required due on part to SIPRNET connection and possibility of NATO material posted on SIPRNET websites. COMSEC required (KOV switch) for SIPRNET connection at contractor facility. TEMPEST requirements for SIPRNET are in effect.

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. ☒ Yes ☐ No
(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)

Contractor facilities that safeguarding classified information and systems will be periodically inspected by the Defense Security Service to validate security requirements for safeguarding.

Continued from Section 10 & 11: USTRANSCOM Portable Electronic Policy (PED) will be used by contractor personnel at facility to ensure TEMPEST requirements are met. See attached policy directive.

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL

PATRICK M. COLLINS

b. TITLE

Chief, Security Services Center

c. TELEPHONE (Include Area Code)

(618) 229-7349

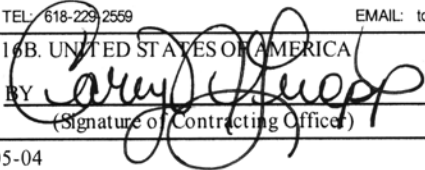
d. ADDRESS (Include Zip Code)

USTRANSCOM, Force Protection
508 Scott Drive, Bldg 1911
Scott Air Force Base, IL. 62225-5004

e. SIGNATURE

17. REQUIRED DISTRIBUTION

- ☒ a. CONTRACTOR
☒ b. SUBCONTRACTOR
☒ c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
☐ d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
☒ e. ADMINISTRATIVE CONTRACTING OFFICER
☒ f. OTHERS AS NECESSARY

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00004		3. EFFECTIVE DATE 30-Apr-2010		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE HTC711 USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002			
				X 10B. DATED (SEE ITEM 13) 01-Oct-2009			
CODE 3U6L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.							
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.							
X 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).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcperejm10572 A. The purpose of this modification is to make the following administrative change to the contract: Change the Payment Office from F67100 (Limestone) to F87700 (Limestone). This will allow electronic interfacing to the new Defense Enterprise Accounting Management System (DEAMS) financial system. If this contract or delivery order is paid through Wide Area Workflow, invoices should reflect the new pay office DODAAC (F87700). Any other addresses previously identified as 'invoice submission address' are not changed at this time. B. All other terms and conditions remain unchanged.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) G. TODD SPENCER / CONTRACTING OFFICER TEL: 618-229-2559 EMAIL: todd.spencer@ustrancom.mil			
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED 30-105-04		16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)		16C. DATE SIGNED 30-Apr-2010	

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The 'Payment will be made by' organization has changed from

DFAS-LIMESTONE - F67100

ATTN: DFAS-LI-JAQBDD

27 ARKANSAS RD

LIMESTONE ME 04751-6216

to

DFAS-LIMESTONE DEAMS - F87700



ACCTG DISB STA NR 387700

DFAS DEAMS

27 ARKANSAS RD

LIMESTONE ME 04751-6216

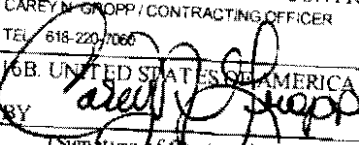
(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. P00005	3. EFFECTIVE DATE 29-JUL-2010	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)		
6. ISSUED BY USTRANSCOM-AQ - HTC711 608 SCOTT DR SCOTT AFB IL 62225-5357	CODE HTC711	7. ADMINISTERED BY (If other than item 6) See Item 6			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002	
CODE 3U6L5				X 10B. DATED (SEE ITEM 13) 01-Oct-2009	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.					
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.					
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).					
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 10 U.S.C Chapter 137					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcperajm102001 ANALYSIS OF MOBILITY PLATFORM (AMP) Pursuant to FAR 42.302(a)(25), the purpose of this modification is to incorporate the Change-of-Name Agreement. The business legal name has changed from BBN Technologies Corp. to Raytheon BBN Technologies Corp. All other terms and conditions remain unchanged. The point of contact for this modification is Mr. Joe Pereyra, 818-220-7109.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Neff Sr. Manager, Contract Relations			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SCOTT B AMOS / CONTRACTING OFFICER TEL: 618-225-4825 EMAIL: scott.amos@ustrancom.mil		
15B. CONTRACTOR/OFFEROR Raytheon BBN Technologies Corp.  (Signature of person authorized to sign)		15C. DATE SIGNED 29 July 2010	16B. UNITED STATES OF AMERICA  BY (Signature of Contracting Officer)		16C. DATE SIGNED 29-Jul-2010

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1 CONTRACT ID CODE Z	PAGE OF PAGE'S 1 3
2 AMENDMENT MODIFICATION NO P00006	3 EFFECTIVE DATE 01-Oct-2010	4 REQUISITION PURCHASE REQ NO.	5 PROJECT NO. (If applicable)		
6 ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357	CODE HTC711	7 ADMINISTERED BY (If other than item 6) See Item 6			
8 NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119			9A. AMENDMENT OF SOLICITATION NO.		
			9B. DATED (SEE ITEM 11)		
			X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002		
			X 10B. DATED (SEE ITEM 13) 01-Oct-2009		
CODE 3U6L5			FACILITY CODE		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended.					
Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.					
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.					
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).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
X D. OTHER (Specify type of modification and authority) (UNILATERAL) FAR 52.217-9, Option to Extend the Term of the Contract					
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcperejm102195 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to exercise Option Year 1 from 1 Oct 10 to and including 30 Sep 11. The point of contact for this modification is Mr. Joe Pereyra, 618-220-7109.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
15B. CONTRACTOR/OFFEROR			16B. UNITED STATES OF AMERICA		
(Signature of person authorized to sign)			BY  (Signature of Contracting Officer)		
15C. DATE SIGNED			16C. DATE SIGNED		
			31-Aug-2010		
EXCEPTION TO SF 30 APPROVED BY OIRM 11-84					

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$3,250,000.00 from \$3,250,000.00 (EST) to \$6,500,000.00 (EST).

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 1001

The option status has changed from Option to Option Exercised.

CLIN 1002

The option status has changed from Option to Option Exercised.

CLIN 1003

The option status has changed from Option to Option Exercised.

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule Item has been deleted from CLIN 1001:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2010 TO 30-SEP-2011	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item has been added to CLIN 1001:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 1002 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2010 TO 30-SEP-2011	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 1003 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2010 TO 30-SEP-2011	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. P00007		3. EFFECTIVE DATE 15-Nov-2010		4. REQUISITION/PURCHASE REQ. NO.	
6. ISSUED BY CODE USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6		5. PROJECT NO.(If applicable)	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002	
				X 10B. DATED (SEE ITEM 13) 01-Oct-2009	
CODE 3U6L5		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.					
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.					
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).					
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 10 U.S.C. Chapter 137					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcteaglm11253 ANALYSIS OF MOBILITY PLATFORM (AMP) 1. The purpose of this modification is to incorporate the revised contract labor rate table. 2. The POC for this modification is Lonnie Teague at 618-220-7137 or lonnie.teague@ustranscom.mil.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) <i>Michael C. West</i> Sr. Manager, Contract Relations		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CAREY N. GROPP TEL: 618-220-7060 EMAIL: carey.gropp@ustranscom.mil			
15B. CONTRACTOR/OFFEROR <i>Michael C. West</i> (Signature of person authorized to sign)		15C. DATE SIGNED 11/17/2010		16B. UNITED STATES OF AMERICA BY <i>Carey N. Gropp</i> (Signature of Contracting Officer)	
				16C. DATE SIGNED NOV 18 2010	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following have been modified:

LIST OF ATTACHMENTS

Atch/Exhib NR	FORM NR	TITLE	DATE	NR OF PAGES
1	DD Form 254	DOD Contract Security Classification Specification	3 Dec 09	2
2	N/A	Contract Labor Rate Table	8 Nov 10	4
3	N/A	Small Business Goals & Plan	29 Sep 09	31

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P000008		3. EFFECTIVE DATE 24-May-2011		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		CODE HTC711		7. ADMINISTERED BY (If other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON 88th TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002			
				X 10B. DATED (SEE ITEM 13) 01-Oct-2009			
CODE 3U6L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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 CONTRACT ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
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.							
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).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
X D. OTHER (Specify type of modification and authority) Bilateral; FAR 52.243-3(b)(1) Changes- Time-And-Materials or Labor-Hour Sep 2000							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tccompme111297 The purpose of this modification is to increase the total contract ceiling value by \$8,000,000.00 from \$13,000,000.00 to \$21,000,000.00. All other terms and conditions remain the same and in full effect. The point of contact for this action is Margarita Compton, 618-220-7056, margarita.compton@ustrancom.mil							
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Platt Contract Manager, Contracts				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LISA A. GROSS, Contracting Officer			
15B. CONTRACTOR/OFFEROR Muhimbi P. Platt (Signature of person authorized to sign)				15C. DATE SIGNED 5/24/2011		16B. UNITED STATES OF AMERICA BY Lisa A. Gross (Signature of Contracting Officer)	
						16C. DATE SIGNED 25 May 2011	

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The following have been modified:

ORDERING

In accordance with FAR 52.216-18, the United States Transportation Command shall be the only Government activity allowed to order off this Schedule.

In accordance with FAR 52.216-22, the quantity of services for this contract is established at \$2,500.00 minimum and \$21M maximum. The total ceiling value for this contract is \$21M.

SECTION I - CONTRACT CLAUSES

The following have been modified:

52.216-19 ORDER LIMITATIONS (OCT 1995)

(a) Minimum order. When the Government requires supplies or services covered by this contract in an amount of less than \$2,500.00, the Government is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under the contract.

(b) Maximum order. The Contractor is not obligated to honor:

(1) Any order for a single item in excess of \$21M;

(2) Any order for a combination of items in excess of \$21M; or

(3) A series of orders from the same ordering office within 360 calendar days that together call for quantities exceeding the limitation in subparagraph (1) or (2) above.

(c) If this is a requirements contract (i.e., includes the Requirements clause at subsection 52.216-21 of the Federal Acquisition Regulation (FAR)), the Government is not required to order a part of any one requirement from the Contractor if that requirement exceeds the maximum-order limitations in paragraph (b) above.

(d) Notwithstanding paragraphs (b) and (c) above, the Contractor shall honor any order exceeding the maximum order limitations in paragraph (b), unless that order (or orders) is returned to the ordering office within 5 calendar days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

(End of clause)

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. P00009	3. EFFECTIVE DATE 21-Jul-2011	4. REQUISITION/PURCHASE REQ NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE HTC711 USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002	
				X 10B. DATED (SEE ITEM 13) 01-Oct-2009	
CODE 3U6L5		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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 CONTRACT ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
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.					
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).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
X D. OTHER (Specify type of modification and authority) FAR 52.243-3(b)(1) Changes - Time-and-Materials or Labor-Hour Sep 2000					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tchillw 111722 This bilateral modification adds Attachment 4 (as discussed in P00007) which incorporates labor categories already established on contract (Attachment 2) but with lower rates as a result of adding subcontractor rates. The total contract price does not increase or decrease as a result of this modification. The addition of these labor rates allows BBN to bill at these rates when applicable. The POC for this action is Jamie Hill who can be reached at 618-220-7073 or James.Hill@ustrancom.mil					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Neff Sr Manager, Contracts			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LISA A. GROSS, Contracting Officer		
15B. CONTRACTOR/OFFEROR Michael C. Neff (Signature of person authorized to sign)			16B. UNITED STATES OF AMERICA BY Lisa A. Gross (Signature of Contracting Officer)		
15C. DATE SIGNED 7/21/2011			16C. DATE SIGNED 21 Jul '11		

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following have been modified:

LIST OF ATTACHMENTS

Atch/Exhib NR	FORM NR	TITLE	DATE	NR OF PAGES
1	DD Form 254	DOD Contract Security Classification Specification	3 Dec 09	2
2	N/A	Contract Labor Rate Table	8 Nov 10	4
3	N/A	Small Business Goals & Plan	29 Sep 09	31
4	N/A	Labor Rates	21 Jul 11	1

(End of Summary of Changes)

Labor Category	Labor Categories and Rates		
	FY 2011	FY 2012	FY 2013
Principal Technologist/LLS	\$194.00	\$200.00	\$205.00
Project Manager/LLS	\$171.00	\$177.00	\$182.00
Technical Professional/LLS	\$137.00	\$141.00	\$146.00
Senior Technical Professional/LLS	\$177.00	\$182.00	\$188.00
Program Manager/ANL	\$211.00	\$219.64	\$230.15
Project Manager/ANL	\$211.00	\$219.64	\$230.15
Principal Technologist/ANL	\$211.00	\$219.64	\$230.15
Divisional Technologist/ANL	\$188.43	\$196.11	\$205.44
Senior Technical Professional/ANL	\$169.28	\$176.15	\$184.49
Technical Professional/ANL	\$136.08	\$141.58	\$148.17
Staff Technical Professional/ANL	\$113.51	\$118.05	\$123.46

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. P00010		3. EFFECTIVE DATE 31-Aug-2011		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002			
				X 10B. DATED (SEE ITEM 13) 01-Oct-2009			
CODE 3U6L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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 CONTRACT/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
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.							
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).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
X D. OTHER (Specify type of modification and authority) FAR 52.217-9 Option to Extend the Term of the Contract							
E. (Unilateral) IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: ttctikktj111963 Option Period Two is hereby exercised for period of performance from 1 October 2011 to 30 September 2012, subject to availability of funds. In accordance with FAR 52.232-18, Availability of Funds, the Government's obligation under this contract is contingent upon the availability of funds from which payment for contract purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are made available to the Contracting Officer for this contract and until the Contractor receives notice of such availability, to be confirmed in writing by the Contracting Officer. Written notice of funds availability will be provided by a unilateral modification to the contract and will be issued on 1 October 2011. See Summary of Changes. POC: Tristan J. Tikkanen, 618-220-7147							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LISA A. GROSS / CONTRACTING OFFICER TEL: 618-220-7061 EMAIL: Lisa.Gross@ustrancom.mil			
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY <u><i>Lisa A. Gross</i></u> (Signature of Contracting Officer)		16C. DATE SIGNED 31-Aug-2011	

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$3,250,000.00 from \$6,500,000.00 (EST) to \$9,750,000.00 (EST).

The contractor organization has changed from
BBN TECHNOLOGIES CORP.
EILEEN NAYLOR
10 MOULTON ST
CAMBRIDGE MA 02138-1119
to
RAYTHEON BBN TECHNOLOGIES CORP.
EILEEN NAYLOR
10 MOULTON ST
CAMBRIDGE MA 02138-1119

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 2001

The option status has changed from Option to No Status.

CLIN 2002

The option status has changed from Option to No Status.

CLIN 2003

The option status has changed from Option to No Status.

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for CLIN 2001 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2011 TO 30-SEP-2013	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2011 TO 30-SEP-2013	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 2002 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 2003 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
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POP 01-OCT-2011 TO
30-SEP-2012

N/A

USTC AT21 PMO - F3ST95
RUIZ, RUBEN
102 SOUTH ADAMS ST., BLDG. 4038
SCOTT AFB IL 62225-5357
618-256-6763
FOB: Destination

F3ST95

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE Z	PAGE OF PAGES 1 29
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2. AMENDMENT/MODIFICATION NO. P00011	3. EFFECTIVE DATE 13-Feb-2012	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO (If applicable)
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6. ISSUED BY CODE USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62226-6367	HTC711	7. ADMINISTERED BY (If other than item 6) CODE See Item 6
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8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BEN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOUNTAIN ST CAMBRIDGE MA 02138-1119	9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED (SEE ITEM 11)
	X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002
	X 10B. DATED (SEE ITEM 13) 01-Oct-2009

CODE 3U8L5	FACILITY CODE
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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 offer ☐ is extended, ☐ is not extended.

Offer 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 13, and returning _____ copies 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 ACKNOWLEDGMENT 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.**

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.
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).
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-3 Changes-Time-and-Materials or Labor-Hour (Sep 2000)
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.)
Modification Control Number: **tcldjd12685**
The purpose of this no-cost bilateral modification is to: Remove FAR Clauses: FAR 52.227-11 and 52.227-17; Add DFARS Clauses: DFARS 252.227-7015, 252.227-7025 and 252.227-7028; Make an administrative adjustment to the ceiling price in PD2 correcting an oversight from P00008; and Update FWS paragraph 5.1.

See Continuation Sheet:
Administrative POC for this action is Jennifer Detmer, Jennifer.Detmer@ustrancom.mil - 618-220-7046

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Neff Sr. Manager, Contracts	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LISA A. GROSS, Contracting Officer
15B. CONTRACTOR/OFFEROR Michael C. Neff (Signature of person authorized to sign)	15C. DATE SIGNED Feb 10, 2012
16B. UNITED STATES OF AMERICA BY Lisa A. Gross (Signature of Contracting Officer)	16C. DATE SIGNED 13 Feb 2012

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

RECORD OF CHANGES

The following changes have been made:

1. Removed FAR 52.227-11, Patent Rights – Ownership by the Government
2. Removed FAR 52.227-17, Rights in Data – Special Works
3. Added DFARS 252.227-7015, Technical Data – Commercial Items
4. Added DFARS 252.227-7025, Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends
5. Added DFARS 252.227-7028, Technical Data or Computer Software Previously Delivered to the Government.
6. Increased the IDIQ ceiling from \$13,000,000 to \$21,000,000.00
7. Added language in PWS Paragraph 5.1- General Security Information, to clarify that the IDIQ contract DD 254 applies to all Task Orders.

SECTION A - SOLICITATION/CONTRACT FORM

The contract maximum amount has increased by \$8,000,000.00 from \$13,000,000.00 to \$21,000,000.00.

SECTION C - DESCRIPTIONS AND SPECIFICATIONS

The following have been modified:

CONTRACT LEVEL PWS

CONTRACT LEVEL PERFORMANCE WORK STATEMENT

ANALYSIS OF MOBILITY PLATFORM

22 Jun 2009

1.0 DESCRIPTION OF SERVICES

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses. Analysts use AMP to dynamically configure component interactions and integrate additional models in order to obtain an end-to-end simulation of the Defense Transportation System (DTS). AMP allows users to rapidly set up, tailor, and extend transportation and logistics models to support programmatic analysis, war games and exercises, execution, and costing functions. The current suite of models, the AMP Federation, includes the Model for Inter-theater Deployment by Air and Sea (MIDAS), the Enhanced Logistics Intra-theater Support Tool (ELIST) and the Aerial Port of Debarkation (APOD) Model. The “APOD Model” name is transitioning to “Analysis of Mobility Platform Port Analysis Tool (AMP-PAT).” The Joint Planning and Execution Community (JPEC), OSD, Joint Staff, Combatant Commands, CAA and USTRANSCOM and its Transportation Component Commands (TCCs) are the primary AMP Federation users.

The APOD Model (AMP-PAT) is an analysis and decision support tool to assist Combatant Command planners, Joint Staff, Office of the Secretary of Defense (OSD), Center for Army Analysis (CAA), and USTRANSCOM analysts in refining transportation enabler requirements during Time-Phased Force and Deployment Data (TPFDD) development processes and to provide throughput analysis for airports and seaports. The APOD Model (AMP-PAT) is used to support throughput analysis in a stand-alone mode or as a federate of AMP, running dynamically with MIDAS and ELIST. The APOD Model (AMP-PAT) includes the following six tools:

- Airport Rapid Analysis Tool (ARAT)
- Airport Throughput Tool (ATT)
- Airport Simulation Tool (AST)
- Seaport Rapid Analysis Tool (SRAT)
- Seaport Throughput Tool (STT)
- Seaport Simulation Tool (SST)

1.2 Scope. The contractor shall plan for all general tasks identified in this Performance Work Statement (PWS) required to maintain, support and enhance AMP within the context of the AMP Federation of models. Note: Any reference to AMP within the document includes the APOD Model (AMP-PAT) Tool. Contractor estimates and timelines shall be determined based on the specific tasks and deliverable due dates specified in each individual task order (TO). The contractor shall coordinate with the AMP Program Manager (PM) to ensure that all activities are well synchronized and integrated with other USTRANSCOM M&S efforts, and that replicated or overlapping efforts do not occur.

1.3 General Tasks. Each TO shall exist within the scope of the following task areas. Specific tasks shall be specified and performed under individual TOs.

- Contract Management
- Studies Support
- Requirements Definition
- Design and Development
- System Interface Support
- Maintenance
- System Administration
- Information Assurance
- Contingency Operations
- Configuration Management
- Enhancements (specific tasks specified and performed under individual TOs)

1.3.1 Task Area 1 - Contract Management. This task area shall encompass overall contract management to include administrative, clerical, documentation, and related functions. The contractor shall designate an individual from the contractor's resources to be the focal point for all contract management communications with USTRANSCOM, and to be responsible for ensuring successful accomplishment of PWS tasks. Point of contact (POC) information, to include name, title, phone number, and email address, are to be provided to the Contracting Officer at the Post-Award Conference. In support of this task, the contractor may be requested to provide documents such as Task Order Management Plans (TOMP), Monthly Status Reports (MSR), Trip Reports, In-Process Reviews (IPR), Integrated Management Schedules (IMS), Contract Summary Reports (CSR), and Variance Reports. The contractor may also be requested to provide demonstration and teleconference support.

1.3.2 Task Area 2 - Studies Support. The contractor shall support planning and execution of analytical studies. This may require software modifications, analysis of study requirements and products, and on-site support. As appropriate to the specific study, the contractor may be required to work with MIDAS, ELIST, and other model development contractors to define upgrades and enhancements to software of AMP, MIDAS, ELIST, and other models, and coordinate release and testing schedules. The contractor also may be required to modify the AMP Federate and enhance the graphical user interfaces (GUI) and/or charts. In support of this requirement, the contractor may be required to define an approach to integrate the Federation, coordinate integration for the

Federation, conduct integration and testing, and perform trouble-shooting to repair or modify software problems identified during model execution.

1.3.3 Task Area 3 - Requirements Definition. The Functional Manager will provide a prioritized list of functional requirements to the PM, who then will provide these requirements to the contractor. The contractor shall coordinate and integrate the technical expertise required to construct the system and associated databases (if applicable), and support field testing in a limited operational environment. To implement Federation-level requirements, the contractor may be required to coordinate with developers of other Federation systems as described in the Government-provided Memoranda of Agreement between AMP and these other systems.

1.3.4 Task Area 4 - Design and Development. The contractor shall design, develop, and test the AMP infrastructure and GUI to support Federation integration efforts. The design and development shall support future additions or changes to existing federate systems. Activities may include software development, software and system testing, and software releases. Commercial best practices appropriate to the AMP functional requirements shall be used to develop and test new system capabilities. For system development, the contractor may be required to:

- a) Design, code, test, document, and support full system integration of software and software releases (including software changes), assessments and prototypes supporting application development.
- b) Propose release content and schedules based upon the known Government requirements and priorities.
- c) Provide necessary models and simulations to support the verification and validation.
- d) Provide software size, cost, and schedule estimates, and include justification and confidence level behind those estimates.
- e) Deliver any developed corporate applications software artifacts to the PMO.

1.3.5 Task Area 5 - System Interface Support. The contractor shall provide maintenance, development, and modification of AMP system interfaces.

1.3.6 Task Area 6 - Maintenance. The contractor shall provide software and system maintenance for AMP and APOD model (AMP-PAT). The contractor may be required to develop or update operational, system, and technical architecture documents; the Logical Data Model, to include the addition of new data elements; and provide data structure and administration support. The contractor also shall provide necessary support, to include documentation and advice to meet the USTRANSCOM security and technical requirements of the USTRANSCOM Execution and Effects Review process.

1.3.7 Task Area 7 - System Administration (SA). The contractor shall provide on-site SA support to USTRANSCOM SAs for the system. This may include model user training and the following activities:

- a) Plan, schedule and accomplish installation of new or modified hardware and software, to include system patches, updates, and enhancements for the system servers. Troubleshoot AMP installation problems.
- b) Support installation, optimization, backup, recovery, modification and upgrade of system servers and software. Debug AMP software and test software releases.
- c) Monitor operational node performance and recommend possible improvements.
- d) Accomplish routine system maintenance functions such as rebooting servers, running backups and coordinating hardware repair/replacement.
- e) Troubleshoot and resolve system performance problems for system servers.

- f) Provide technical support for system reengineering efforts.
- g) Work with Government security and networking personnel on system-related issues.
- h) Support the Execution and Effects Review activities and required updates.

The contractor shall update the system administration manual to support the system that includes account administration; server installation, configuration, and administration; software installation; obtaining, generating, and updating reference files, shared drives, and web pages; troubleshooting and resolving operating system conflicts; maintaining logs; and creating reports, as required.

1.3.8 Task Area 8 - Information Assurance (IA). The contractor shall establish an IA Program to implement and sustain appropriate IA management, operational, and technical controls and processes, as required, to ensure compliance with DOD and Chairman Joint Chiefs of Staff (CJCS) requirements, and Joint Task Force – Global Network Operations (JTF-GNO) taskings. The contractor may be required to submit for Government approval an overarching security plan that describes their strategy for implementation of IA and Industrial Security requirements throughout the life of the contract. The contractor shall ensure that information system security engineering (ISSE) is employed to develop or modify any IA component of the system architecture. Such modifications shall be made in compliance with all analogous or interfacing IA component(s) of the GIG Architecture and will be designed to make maximum use of the DOD enterprise IA capabilities and services. The contractor shall also support periodic Government inspections and reviews to ensure compliance with DOD IA requirements throughout the contract performance period. Contractor IA Program capabilities shall include, but not be limited to, processes and procedures for vulnerability management, patch management, incident response, Information Condition (INFOCON), system and application security, configuration management, risk management, and situational awareness. Activities may include IA design, security testing, and DOD IA Certification and Accreditation Process (DIACAP). The contractor shall provide appropriate skilled and certified IA personnel resources to implement and manage the IA program in accordance with the applicable provisions of DODD 8570.01.

1.3.9 Task Area 9 - Contingency Operations. The Continuity of Operations Plan (COOP) defines the methodology for providing a back-up capability for system users in the event that the primary capability is not available. To support this task area, the contractor may be required to provide a Contingency Operations Document (contractor specific) that aligns with the Government COOP. The contractor's Contingency Operations Document shall include SA and data storage support procedures at the recovery site. The hardware and software for the site will be Government-furnished and will include all maintenance and licenses. Commercial Off-the-Shelf (COTS) software versions will be the same as the versions used in the production environment.

1.3.10 Task Area 10 - Configuration Management (CM). This support is required to meet the DIACAP and USTRANSCOM technical and security requirements. The CM process facilitates orderly configuration identification, change identification and control, status reporting, and configuration auditing of product information for such beneficial purposes as to revise capability and improve performance, reliability, or maintainability; extend life; reduce cost; reduce risk and liability; or correct defects. CM ensures that changes take place in an identifiable and controlled process and do not adversely affect any properties of the other system or interfaces. Activities may include developing a Configuration Management Plan (CMP), identifying hardware or software configuration items, providing an automated configuration management tool to assist in change control, evaluating change requests, participating in configuration control boards, conducting configuration status accounting and audits, and improving CM processes.

1.3.11 Task Area 11 - Enhancements. The contractor shall provide new software and enhancements to AMP. Enhancements shall be identified on a task order basis. Projected enhancements are included in Appendix D.

1.4 Deliverables. Deliverables shall be identified on each individual task order.

2.0 SERVICE DELIVERY SUMMARY (SDS). An SDS shall be identified on each individual task order.

2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Unless otherwise specified under an individual task order, final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table within the individual task order.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). GFE/GFI, if any, shall be specified on each individual task order.

3.2 Facilities. Facilities, if any, will be specified on each individual task order.

4.0 GENERAL INFORMATION

4.1 Phase-In Transition. The Phase-In Transition period is defined as the first 45 days of contract performance. The contractor shall negotiate a good faith plan with the incumbent contractor to determine the nature and extent of Phase-In Transition to effect an orderly and efficient transfer of contract responsibility and operations. During the Phase-In Transition period, the contractor shall prepare to assume full responsibility for all areas of operations in accordance with the terms and conditions of the contract. During the phase-in period, the contractor shall:

- Recruit and hire necessary personnel.
- Submit appropriate suitability/clearance forms.
- Submit appropriate systems access forms.
- Complete process to receive a building identification badge.
- Develop and submit any required deliverables.
- Attend post-award meetings.
- Attend Government-provided training (security, Education Training and Awareness Program (ETAP), etc.).
- Accomplish any necessary training to support the services listed in this PWS.

During this period, the successor's personnel will be permitted to observe operations covered by this contract so as not to interfere with operations. The Government will make any facilities and equipment that will be turned over to the contractor available for observation.

4.2 Phase-Out Transition.

4.2.1 Transition Planning. The contractor shall provide the Government with a transition plan that describes how the contractor will convey all open work and associated materials and assets in their possession to the Government.

4.2.2 Continuity of Service. The contractor shall ensure the continuity of service while implementing its transition plan for all affected activities to preclude any adverse impact on the mission.

4.2.3 Listing of Open Tasks. The contractor shall provide the COR/Alternate COR a complete listing of all open tasks indicating the status of completion and any performance issues associated with them. The report is due no later than 30 calendar days prior to the contract scheduled end date.

4.2.4 Transfer of Materials. The contractor shall transfer to the Government all intellectual and real property belonging to the Government which was generated, purchased on behalf of, or provided by the Government for the performance of the work within this contract. The contractor shall provide the source code and executables for software developed and implemented on systems. Some examples would be code or scripts used to perform automated system backups, the monitoring of system processes, web development, code to check for security concerns etc. The contractor acknowledges that anything developed at the expense of the Government during the

period of performance is the property of the Government. Electronic copies of the scripts shall be submitted to the Government for baseline control.

4.2.5 Sufficient Personnel. The contractor shall provide a sufficient number of personnel to ensure effective transfer of all work in progress so as not to impact mission accomplishment.

4.2.6 Cooperative Work Environment. The contractor shall maintain a cooperative work environment with other Government contractors and personnel so as not to cause interference, disagreement or delays to work to be performed while not compromising health, safety or security. The contractor shall be responsible for adapting schedules and performance to accommodate additional support work. Conflicts or cause for delays shall be brought to the attention of the COR.

4.3 Place of Performance. Unless otherwise stipulated in an individual task order, the primary place of performance shall be at the Contractor's location off -base.

4.4 Travel. Performance under this PWS may require contractor travel within and outside the Continental United States (OCONUS). The Government will reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). All contractor travel shall be coordinated with and validated by the PM prior to incurring any travel expenses. Travel requests shall be submitted in writing at least five (5) business days in advance from the travel commencement date and shall consist of:

- Title, Purpose/Objective, Expected Outcome
- Date, Time (window), and Location
- Proposed Itinerary
- Proposed Meeting/Activities Agenda
- Number of Contractor Participants
- Desired Government Participants
- Requested Government Support
- Estimated Costs

The contractor shall identify personnel who will be traveling in sufficient time to obtain the lowest possible rates for airfare, rental car and lodging. Contractor invoices (along with associated receipts) shall support all travel reimbursement requests. The Government will not reimburse local travel and related expenses to the contractor for daily travel to or from the place of performance stipulated in each individual task order. Contractors shall not use General Services Administration city pair contracts.

4.5 Hours of Operation. Unless specified under individual task orders, normal duty hours are between 0730 and 1630, Monday through Friday, with the exception of Federal holidays. If on-site contractor personnel deem it necessary to work outside normal duty hours, it must be coordinated with the COR assigned to the task order. The following will be observed as Federal holidays: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, and Christmas Day. Note: Any of the above holidays falling on a Saturday shall be observed on the preceding Friday. Holidays falling on a Sunday shall be observed on the following Monday.

4.6 Other Direct Costs (ODC). The Government will reimburse allowable other direct costs (ODCs) incurred in the performance of this PWS. ODCs may include, but are not limited to, software, group teleconferencing fees and membership/conference fees. All ODCs shall be coordinated with and validated by the primary or alternate COR specified on each individual task order, prior to incurring any expenses. ODC requests shall be submitted in writing to the COR at least five (5) business days in advance from incurring any expenses and contain estimated costs. The Contractor may be required to submit at least two quotes for high dollar value items. Contractor invoices (along with associated receipts) shall support all ODC reimbursement requests. In addition, General and Administrative overhead charges will not be accepted or paid for approved ODC purchases. Not all task orders may require ODCs.

4.7 Period of Performance. The period of performance for this contract shall consist of a base period with three optional periods through 30 September 2013:

Base Period: 1 Oct 2009 to 30 Sep 2010
Option Period 1: 1 Oct 2010 to 30 Sep 2011
Option Period 2: 1 Oct 2011 to 30 Sep 2012
Option Period 3: 1 Oct 2012 to 30 Sep 2013

4.8 List of Appendices.

APPENDIX	TITLE
A	Reference Publications
B	List of Acronyms
C	Non-Disclosure Agreement
D	Projected Enhancements

4.9 Section 508 Accessibility Standards. The following technical standards and functional performance criteria pertaining to Section 508 Accessibility Standard(s) of the Rehabilitation Act (29 U.S.C. 794d), as amended by the Workforce Investment Act of 1998 (P.L. 105-220), 7 Aug 1998, are applicable to this acquisition if the box is checked.

- ☒ 1194.21 - Software Applications and Operating Systems
- ☐ 1194.22 - Web-Based Intranet and Internet Information and Applications
- ☐ 1194.23 - Telecommunications Products
- ☐ 1194.24 - Video and Multimedia Products
- ☐ 1194.25 - Self-Contained, Closed Products
- ☐ 1194.26 - Desktop and Portable Computers
- ☐ 1194.41 - Information, Documentation and Support

The Technical Standards above facilitate the assurance that the maximum technical standards are provided to the Offerors. Functional Performance Criteria is the minimally acceptable standards to ensure Section 508 compliance. This block is checked to ensure that the minimally acceptable Electronic and Information Technology (E&IT) products are proposed.

4.10 Functional Performance Criteria.

- ☐ 1194.31 - Functional Performance Criteria

4.12 Standards. The AMP Federation is part of the JDDA-E. The JDDA-E consists of Conceptual, Prescriptive, and Transition Architectures, referred to collectively as the Enterprise Architecture (EA). The JDDA-E embodies the Distribution Process Owner's (USTRANSCOM) Corporate Services Vision (CSV) and Service Oriented Architecture (SOA) concepts. Current governance, policy, architecture, standards, and specification documentation can be obtained by coordinating with the AMP PMO. Other standards and specifications that are a part of the JDDA-E Prescriptive Architecture are being defined and will be made available after they are delivered. Until such time as the Prescriptive Architecture is released, existing federal, DOD, and USTRANSCOM guidelines shall pertain. The AMP contractor shall abide by the requirements of the DOD Information Technology Standards Registry (DISR) and the DOD Net-Centric environment as reflected in the JDDA-E. The contractor shall show traceability to the DTS Enterprise Architecture (EA) content to include identifying anticipated standards, new Information Exchange Requirements (IER), and system interfaces. This traceability shall be reflected in DODAF products for which the contractor shall be responsible to develop or update.

DOD is implementing a Service-Oriented Architecture (SOA) environment to enhance net-centricity and data sharing within the Global Information Grid (GIG). As USTRANSCOM is in SOA discovery mode, the contractor shall consider SOA standards and protocols documented in the DISROnline and the Net-Centric Operations Warfare

Reference Model (NCOW RM) during system development and enhancement. A SOA is a design style for building flexible, adaptable distributed-computing environments for the DOD. Service-oriented design is fundamentally about sharing and reusing functionality across diverse applications. Service-oriented design focuses on the following best practices:

- Make application and system functionality as accessible and reusable services.
- Expose service functionality through programmatic interfaces.
- Maintain an abstraction layer between service interfaces and service implementations.
- Describe service interfaces using standard metadata.
- Advertise and discover services using standard service registries.
- Communicate with services using standard protocols.

USTRANSCOM's Data Management Strategy is documented in the Information Reference Model Manual which is the governing document for Enterprise Information Management within the Command. This document outlines program responsibility in support of the strategy. It mandates the creation and use of Standard Message Templates and Standard Reference Data (USTRANSCOM Reference Data Management - TRDM). The Enterprise Data Office (TC/J6-AD) will assist with the creation of the Standard Message Templates once validated through the Enterprise Requirements Management process. The AMP Contractor may be required to ensure AMP data is submitted and compliant with USTRANSCOM's Distribution Process Interface Exchange Data Model (DPIEDM), and that no data business rule from that model is violated in the system, to include the database and interfaces.

Software shall be developed in accordance with CMMI Level II best practices.

4.13 Small Business Commitment. If award is made to a large business, verification of subcontracting goals will be accomplished thru eSRS. If award is made to a small business, verification of subcontracting goals will be accomplished via a semi-annual report from contractor to the contracting officer. Report format will be determined at the post-award conference. A small business prime contractor may use their work performance to meet the small business commitment.

5.0 Security (Physical, Personnel, Information, Industrial, Anti-terrorism and Force Protection Requirements)

5.1 General Security Information. The overall classification of work associated with this PWS is at the SECRET level. Contract employees who support this contract and who work in a classified environment or work with or in a work area containing SECRET data shall require SECRET clearance eligibility and access. Personnel requiring security clearances must possess the clearance prior to beginning work on any classified information. The contractor shall not divulge any financial, planning, programming, or budgeting information without the express consent of the Government. The contract work associated with this PWS deals directly with systems supporting current operations and decision making for the DPO. A completed / signed DD 254 is attached to this PWS. The attached DD 254 is applicable to all Task Orders.

5.2 Contract employees will be required to access classified areas and systems at various locations that require SECRET eligibility. Contract employees with access to Information Assurance (IA) administrative privileges and/or who will monitor DoD IT systems or software as designated by DoD 8500.1 and 5200.2-R will be rated at ADP/IT-II level for this contract.

5.3 Contract employees assigned at the Non-Critical Sensitive/ADP II rating require an ANACI (or acceptable periodic reinvestigation) favorably adjudicated (a favorable adjudication grants eligibility at the SECRET level as prescribed by DoD 5200.2-R). The contractor shall ensure that individuals assigned have completed the appropriate forms. The required investigation will be completed prior to the assignment of individuals to sensitive duties associated with the positions. The ADP II rating requirement mandates the company awarded the contract have a minimum Facilities Clearance Level (FCL) rated at SECRET, which is outlined in section 5.5 of this PWS as directed in DoD 5220.22-M.

5.4 Contract employees shall have completed favorably an investigation resulting in SECRET eligibility adjudicated by the Defense Industrial Security Clearance Office (DISCO). The Government will accept an Interim SECRET clearance provided it was granted by the Defense Industrial Security Clearance Office (DISCO).

5.5 The company that is awarded the contract must have a valid Facilities Clearance Level (FCL) at SECRET level. Interim FCL's are acceptable provided they are not expired. FCL procedures and security guidelines for adjudicative requirements are outlined in DoD 5220.22-M and DoD 5200.2-R. FCL's and Interim FCL's must be awarded by the Defense Security Service (DSS) or DISCO. USTRANSCOM will not sponsor the company awarded the contract for an FCL. The company awarded the contract must possess an interim or final FCL before the start of the contract.

5.6 Personnel assigned to this PWS who do not require access to classified material but will still work in support of this contract on the deliverables or who will require access to Non-Secure Internet Protocol Router Network (NIPRNET) applications and/or who will require Common Access Cards (CAC), must successfully complete a National Agency Check with Inquiries (NACI) or suitable investigation meeting the NACI level or equivalent. Favorable NACI or equivalent investigation results must be posted in the Joint Personnel Adjudication System (JPAS). Before a CAC or NIPRNET access is issued the NACI must be opened and fingerprint and name check returned favorably. NACI submissions will be completed on the Standard Form (SF) 85P and submitted with fingerprint cards (FP 258) to USTRANSCOM Force Protection, Security Services Center (SSC).

5.7 Upon contract award, the contractor will submit all names of contract employees to the USTRANSCOM Security Services Center (SSC) for vetting through JPAS to ensure investigative and clearance requirements have been satisfied. This will be completed before the Contract Officer Representative (COR) / Trusted Agent (TA) accesses the DoD Contract Verification System (CVS) and submits requests for issuance of Common Access Cards (CAC) to the contract employees. If a contract employee does not have the required investigative or security clearance level, the contract employee will be denied the ability to work in support of this PWS, and the employee's information will not be loaded into CVS.

5.8 Upon notification by the SSC that contract personnel meet the required investigative and clearance level, personnel will be loaded in CVS for an expiration on their CAC for the base year, plus two option years, for a three year total, if the contract is fully funded. If the contract is unfunded or funded on a yearly basis requiring recertification of funding by USTRANSCOM AQ or J8, CAC's will only be loaded for the base contract or option year only.

5.9 Upon receipt of the CAC, permanently assigned contract employees located at USTRANSCOM at SAFB, IL, may obtain the AF 1199 (Restricted Area Badge) if the employee meets the requirements set forth in the SAFB Instruction 31-101. Only personnel assigned physically on SAFB at least 4 days a week will be issued the AF 1199 unless an exception to policy is approved by the 375th SFS through the USTRANSCOM SSC. In addition, the contractor is required to provide contractor (company) identification badges for its on-site employees. All contractor personnel shall wear these badges while on duty on the Government site. Contractor (company) identification badges are required to identify the individual, company name, and are clearly and distinctly marked as contractor. The contractor and Government shall mutually agree on badge size, color, style, etc. The Government will provide unrestricted access to facilities, consistent with security clearance and need to know, necessary for the on-site person to perform his or her contractual job. Contractor personnel assigned on-site at USTRANSCOM shall wear and display both the contractor identification badge and Restricted Area Badge at all times.

5.10 Any visit(s) by contract employees not permanently assigned to this contract (company presidents, company security managers, contract employees not permanently assigned at SAFB, etc.) will require an electronic visit request be submitted using the Joint Personnel Adjudication Systems (JPAS).

5.11 Upon completion of this contract, the employee will surrender all government supplies, materials and equipment to the COR. All contract employees assigned to this contract who possess CAC cards shall return these cards to the COR at SAFB for turn-in to the USTRANSCOM Security Services Center (SSC). Assigned contract employees who possess any security badges shall turn these badges in to the SSC in person during out-processing.

Contract employees shall out-process on the last day of the contract or upon termination or reassignment from duties on this contract.

5.12 If the contract employee physically works at USTRANSCOM at SAFB, IL, this employee shall complete a security debriefing statement (Standard Form 312) upon completion of the contract.

5.13 Contract employees assigned to USTRANSCOM at SAFB IL shall attend and complete Employee Initial Security Briefing and Annual Security Awareness Training as prescribed by DOD, USTRANSCOM and Air Force Instructions. All contract employees, regardless of place of assignment, shall complete the annual DoD Antiterrorism Level 1 training. Contract employees assigned elsewhere shall attend security training established by their respective government security offices and/or installations.

5.14 The Government shall ensure the roles/privileges assigned to contract employees on the Government computing platforms are limited to the roles/privileges essential to that individual's performance of his/her assignments. The Government may limit or revoke these roles or privileges for any reason.

5.15 If the Government notifies the contractor that the employment or the continued employment of any contract employee is prejudicial to the interests or endangers the security of the United States of America, that person shall be removed and barred from the worksite. This includes security deviations/incidents and credible derogatory information on contract members during the course of the contract period. The contractor shall make any changes necessary in the appointment(s).

5.16 Responsibility for offsite contractor's compliance with internal security for a Command, Control, Communications, and Computer (C⁴) system site shall be assigned to the contractor. All contractor personnel shall be briefed on site security operating procedures prior to or upon commencement of contract award and shall be debriefed upon termination. The contractor shall be responsible for all continuing security training of the contractor personnel.

5.17 Secure Internet Protocol Router Network. It is a requirement of this contract that the contractor use a secure SIPRNET network connection, maintained at the contractor's facility in a secure space IAW DoDI 5200.1-R, Appendix 7. The Government will provide the equipment and leased line to support the SIPRNET connection. Before the SIPRNET is established in the contractors location the contractor must have a physical safeguarding rating at the SECRET level from DSS.

5.18 Non-Public Information. In performance of this contract, the contractor may obtain access to sensitive, non-public information. The contractor agrees (a) to use and protect such information from unauthorized disclosure in accordance with the FAR; (b) to use and disclose such information only for the purpose of performing this contract and to not use or disclose such information for any personal or commercial purpose; (c) to obtain permission of the Government PM before disclosing/discussing such information with a third party; (d) to return, upon Government request, any non-public, sensitive information no longer required for contractor performance; and (e) to advise the Government PM of any unauthorized release of such information. Upon request, the contractor shall have its employees assigned to this contract execute a non-disclosure agreement for delivery to the Government. The Government will require contractor personnel to sign a non-disclosure statement to protect non-public information of other contractors and/or the Government (see Appendix C, "Non-Disclosure Agreement"). This is also covered in the DD 254 for disclosure approvals authorities.

5.19 Security Regulation Compliance. The contractor shall comply with all security regulations and directives as identified herein and other security requirements in this contract specific to site locations of work. Upon contract start, employees shall attend security training required by this PWS in Paragraph 4.1.

Security Regulation Guidance:

Department of Defense (DoD):

2000.16 (DoD Antiterrorism (AT) Standards)
5200.1-R (DoD Information Security Program)

5200.2-R (DoD Personnel Security Program)
5200.08-R (DoD Physical Security Program)
5220.22-M (National Industrial Security Program)
8500.1 (Information Assurance (IA))
2000.12 (DoD Antiterrorism (AT) Program)
8500.2 (Information Assurance (IA) Implementation)

DoD regulations found at:

<http://www.dtic.mil/whs/directives/corres/pub1.html>

Scott Air Force Base:

SAFB Instruction 31-101 (Installation Security Instruction)

(Restricted publication. Send only to...mil domains when forwarding. Not for public distribution.)

Forms:

DD 254, DoD, Contract Security Classification Specification

DoD forms found at:

<http://www.dtic.mil/whs/directives/corres/pub1.html>

USTRANSCOM Force Protection (Industrial Security) Points of Contact:

Patrick Collins or Steven Strait

508 Scott Drive

TCJ3-FP

Scott AFB, IL. 62225

Commercial: 618-229-7349/8287 (respectively)

Email at Patrick.Collins@ustranscom.mil or Steven.Strait@ustranscom.mil

APPENDIX A

REFERENCE PUBLICATIONS

USTRANSCOM Data Management Handbook

USTRANSCOM Instruction 33-45, Defense Transportation System Enterprise Capabilities Management Process, 1 Apr 2005.

DOD Directive 5158.04, Subject: United States Transportation Command, 27 Jul 2007.

Chairman of the Joint Chiefs of Staff Instruction 3170.01E, "Joint Capabilities Integration and Development System," 11 May 2005.

DOD Directive 5000.01, "The Defense Acquisition System," 12 May 2003.

DOD Directive 8100.01, "Global Information Grid Overarching Policy," 19 Sep 2002.

DOD 5200.1-R, Information Security Program, 14 Jan 1997

DOD Directive 8320.2, Data Sharing in a Net-Centric Department of Defense, 2 Dec 2004.

DOD 8320.02-G, Guidance for Implementing Net-Centric Data Sharing, 12 Apr 2006.

DOD Directive 8500.01E, Information Assurance, 24 Oct 2002.

DOD Instruction 8500.2, Information Assurance Implementation, 6 Jan 2003.

DOD Net-Centric Data Strategy, 9 May 2003.

DODI 8510.01, DOD Certification and Accreditation Process, November 28, 2007.

MIL-STD 3022, Documentation of Verification, Validation, and Accreditation For Models And Simulations, 28 Jan 2008.

APPENDIX B

LIST OF ACRONYMS

TERM	DEFINITION
ADP	Automated Data Processing
AMP	Analysis of Mobility Platform
AMP-PAT	AMP Port Analysis Tools
API	Application Program Interface
APOD	Aerial Port of Debarkation
ARAT	Airport Rapid Analysis Tool
AST	Airport Simulation Tool
ATT	Airport Throughput Tool
BCR	Baseline Change Request
C ⁴	Command, Control, Communications, and Computer
CAA	Center for Army Analysis
CCB	Configuration Control Board
CD	Compact Disc
CM	Configuration Management
CMB	Configuration Management Board
CMP	Configuration Management Plan
CND	Computer Network Defense
CO	Contracting Officer
COA	Course of Action
COE	Common Operating Environment
CONOPS	Concepts of Operation
CONUS	Continental United States
COOP	Continuity of Operations Plan
COR	Contracting Officer's Representative
COTS	Commercial Off-The-Shelf
CR	Change Request
DIACAP	DOD Information Assurance Certification and Accreditation Process
DII	Defense Information Infrastructure
DIP	DIACAP Implementation Plan
DISR	DOD Information Technology Standards Registry
DOD	Department of Defense
DPIEDM	Distribution Process Interface Exchange Data Model
DPNM	Distribution Performance Nodal Model
DPO	Distribution Process Owner
DSS	Defense Security Service
DTS	Defense Transportation System
E&IT	Electronic and Information Technology
EA	Enterprise Architecture
ECM	Enterprise Capabilities Management
ELIST	Enhanced Logistics Intra-theater Support Tool
eMASS	Enterprise Mission Assurance Support Service
ETAP	Education Training and Awareness Program
ETED	End-to-End Distribution
FAR	Federal Acquisition Regulation
FIPS	Federal Information Processing Standards
FM	Force Module
FM	Functional Manager
FTR	Federal Travel Regulation

FY	Fiscal Year
GEOLOC	Geographical Location
GFE	Government-Furnished Equipment
GIG	Global Information Grid
GUI	Graphical User Interface
IA	Information Assurance
IA&ISP	Information Assurance and Industrial Security Plan
IASAE	Information Assurance, Security Architecture and Engineering
ICD	Interface Control Document
IDL	Integrated Distribution Lane
IER	Information Exchange Requirement
IPR	In-Process Review
IMS	Integrated Management Schedule
INFO	Interactive File Operations
INFOCON	Information Condition
IPR	In-Process Review
IRDD	Interface Requirement Design Document
IRS	Interface Requirement Specification
ISA	Interconnection Security Agreement
ISP	Information Security Plan
ISB	Intermediate Staging Bases
ISSE	Information System Security Engineering
JDDA-E	Joint Deployment and Distribution Architecture - Enhanced
JDDE	Joint Deployment and Distribution Enterprise
JDPAC	Joint Distribution and Process Analysis Center
JETA-SPOD	Joint Enabler Theater Access-Sea Port of Debarkation
JICM	Joint Integrated Contingency Model
JLOTS	Joint Logistics Over The Shore
JMCE	Joint Mobility Closure Estimator
JPEC	Joint Planning and Execution Community
JSAT	JETA-SPOD Analysis Tool
JTF-GNO	Joint Task Force – Global Network Operations
JTR	Joint Travel Regulation
LDM	Logical Data Model
LFF	Logistics Factors File
MAC	Mission Assurance Category
M&S	Modeling and Simulation
MHE	Material Handling Equipment
MIDAS	Model for Inter-theater Deployment by Air and Sea
MOA	Memorandum of Agreement
MOG	Maximum on Ground
MPFD	Mobility Planning Factors Database
MSEL	Master Scenario Events List
MSR	Main Supply Route
MSR	Monthly Status Report
NCOW RM	Net-Centric Operations Warfare Reference Model
NIPRNET	Non-Secure Internet Protocol Router Network
NLT	No Later Than
OCONUS	Outside the Continental United States
ODC	Other Direct Cost
OSD	Office of the Secretary of Defense
PAX	Passengers
PM	Program Manager
PMO	Program Management Office
POA&M	Plan of Action and Milestones

POC	Point of Contact
POD	Port of Debarkation
POE	Port of Embarkation
POL	Petroleum, Oil and Lubricants
PPSM	Ports, Protocols, and Services Management
PWS	Performance Work Statement
QA	Quality Assurance
QDR	Quadrennial Defense Review
RDBMS	Relational Database Management System
RLN	Requirement Line Number
SA	System Administration
SDS	Service Delivery Summary
SIP	System Identification Profile
SIPRNET	Secure Internet Protocol Router Network
SOA	Service-Oriented Architecture
SOP	Standard Operating Procedure
SPIs	Systems, Programs, and Initiatives
SRAT	Seaport Rapid Analysis Tool
SRS	Software Requirement Specification
SST	Seaport Simulation Tool
ST&E	Security Test and Evaluation
STIG	Security Technical Implementation Guide
STon	Short Ton
STORM	Simulation Testing Operations Rehearsal Model
STT	Seaport Throughput Tool
SVD	Software Version Description
T-ACS	Auxiliary Crane Ship
TCC	Transportation Component Command
TOMP	Task Order Management Plan
TPFDD	Time-Phased Force Deployment Data
UE	Unit Equipment
ULN	Unit Line Number
USTRANSCOM	United States Transportation Command
VV&A	Verification, Validation, and Accreditation

APPENDIX C**NONDISCLOSURE AGREEMENT AND AGREEMENT TO DISCLOSE POTENTIAL
CONFLICTS OF INTEREST
FOR CONTRACTOR EMPLOYEES ON USTRANSCOM CONTRACTS**

NOTE: This Agreement is a standard agreement designed for use by contractor (including sub-contractor) employees assigned to work on USTRANSCOM contracts. Its use is designed to protect non-public Government information from disclosure, identify potential conflicts of interest, and prevent violations of federal statutes/regulations. The restrictions contained in this agreement also serve contractors by promoting compliant behavior that keeps contractors eligible to compete for Government contracts. In addition to the potential impact on future business opportunities, failure to abide by this agreement could result in administrative, civil, or criminal penalties specified by statute or regulation.

1. I, _____, currently an employee of _____, hereby agree to the terms and conditions set forth below.

2. I understand that I may have access to confidential business information, contractor bid or proposal information (as defined by FAR 3.104-1), and/or source selection information (as defined by FAR 2.101) either for contract performance, as a result of working in a USTRANSCOM facility, or of working near USTRANSCOM personnel, contractors, visitors, etc. I fully understand that such information is sensitive and must be protected in accordance with 41 US Code Section 423 and FAR SubPart 3.1.

3. In the course of performing under contract/order # _____ or some other contract or sub-contract for USTRANSCOM, I agree to:

a) Use only for Government purpose any and all confidential business information, contractor bid or proposal information, and/or source selection sensitive information to which I am given access. I agree not to disclose “non-public information” by any means (in whole or in part, alone or in combination with other information, directly, indirectly, or derivatively) to any person except to a US Government official with a need to know or to a non-Government person (including, but not limited to, a person in my company, affiliated companies, sub-contractors, etc.) who has a need to know related to the immediate contract/order, has executed a valid form of this non-disclosure agreement, and receives prior clearance by the Contracting Officer. All distribution of the documents will be controlled with the concurrence of the Contracting Officer.

b) “Non-public information,” as used herein includes trade secrets; confidential or proprietary business information (as defined for Government employees in 18 USC 1905); advance procurement information (future requirements, acquisition strategies, statements of work, budget/program/planning data, etc.); source selection information (proposal rankings, source selection plans, contractor bid or proposal information); information protected by the Privacy Act (social security numbers, home addresses, etc.); sensitive information protected from release under the Freedom of Information Act (pre-decisional deliberations, litigation materials,

privileged material, etc.); and information that has not been released to the general public and has not been authorized for such release (as defined for Government employees in 5 CFR 2635.703).

c) Not use such information for any non-Governmental purposes, including, but not limited to, the preparation of bids or proposals, or the development or execution of other business or commercial ventures.

d) Store the information in such a manner as to prevent inadvertent disclosure or releases to individuals who have not been authorized access to it.

4. I understand that I must never make an unauthorized disclosure or use of confidential business information, contractor bid or proposal information, and/or source selection sensitive information unless:

a) The information has otherwise been made available without restriction to the Government, to a competing contractor or to the public.

b) The Contracting Officer determines that such information is not subject to protection from release.

5. I agree that I shall not seek access to “non-public information” beyond what is required for the performance of the services I am contracted to perform. I agree that when I seek access to such information, attend meetings, or communicate with other parties about such information, I will identify myself as a contractor. Should I become aware of any improper or unintentional release or disclosure of “non-public information,” I will immediately report it to the Contracting Officer in writing. I agree that I will return all forms (including copies or reproduction of original documents) of any “non-public information” provided to me by the Government for use in performing my duties to the control of the Government when my duties no longer require this information.

6. Because the Government expects unbiased judgment and recommendations from contractors performing work under its contracts and orders, I agree to advise the Contracting Officer of any actual or potential personal conflicts of interest I may have related to any work I perform under this contract/order with the government. Personal conflicts of interest include any matter in which I or my spouse, minor child, or household member has a financial interest. A financial interest is any interest in, or affiliation with, a prime contractor, subcontractor to a prime contractor, any offerors, or any prospective subcontractor to any offeror for the program, contract, or other matter for which I am performing a support task under this contract. The financial interest can take the form of any ownership interest (including but not limited to: stock; ownership of bonds; vested or unvested retirement benefits; a loan or other financial arrangement that is other than an arm’s-length transaction; employment, or an arrangement concerning prospective employment including negotiations therefore; or any non arm’s length loan, any gift from or other non arm’s length financial arrangement with any person who is directly communicating with the government on behalf of the prime contractor, subcontractor, or any prospective subcontractor or offeror). With respect to conflict of interest disclosures required

under this agreement, a financial interest in, or affiliation with, the prime contractor that is my employer under this contract does not have to be disclosed to the Contracting Officer. If any potential conflicts of interest, real or otherwise, do present themselves, then I shall immediately disclose the pertinent information to the Contracting Officer.

By signing below, I certify that I have read and understand the terms of this Non-Disclosure Agreement and Agreement to Disclose Potential Conflicts of Interest, and voluntarily agree to be bound by its terms.

Signature of Contractor Employee

Date

Printed Contractor Employee Name

Government Contracting Officer's Representative

Date

Contracting Officer

Date

APPENDIX D

PROJECTED ENHANCEMENTS

Projected enhancements may include, but are not limited to, the following. The below enhancements are projected and may or may not be awarded. In addition, enhancements listed below for particular option years may be awarded at the Government's discretion before or after the option year specified.

Enhancements (Option Year 1):

1.3.11.17 AMP GUI. The contractor shall continue to design, develop and test the AMP GUI. The contractor shall develop the GUI with input from USTRANSCOM and other users. The GUI will include mechanisms for configuring and running AMP models. The GUI development will be compliant with USTRANSCOM EA standards.

1.3.11.18 AMP Infrastructure. The contractor shall continue to design, develop, and test the needed infrastructure to support the installation and updating of federates. The AMP infrastructure will be extensible to meet future USTRANSCOM needs. The AMP infrastructure will be compliant with USTRANSCOM EA standards.

1.3.11.18.1 AMP Federation. The contractor shall maintain and expand the Federation API and the data model.

1.3.11.18.2 Federation Maintenance. The contractor shall maintain the Federation data objects and run infrastructure, and adapt to changes in the component models.

1.3.11.19 AMP Security. The contractor shall continue to design, develop, test and apply required security features.

1.3.11.20 AMP Data Management. The contractor shall comply with the Data Standardization requirements in Paragraphs 1.3.5.4 of the PWS.

1.3.11.21 AMP Design. The contractor shall continue to design the infrastructure and GUI to support Federation integration efforts. The design will support the future addition of and change to the existing federates. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users.

1.3.11.21.1 Integrate With Supply Chain Guru. The contractor shall develop the AMP software in order for AMP to provide GEOLOCs, Logistics Factors File (LFF)-based projected unit demand at theater destinations, and strategic deliveries to initialize a run for Supply Chain Guru.

1.3.11.21.2 Joint Mobility Closure Estimator Integration. The contractor shall develop the capability to import data from an AMP Federation run into the Joint Mobility Closure Estimator (JMCE) modeling tool.

1.3.11.22 Surface Modeling. The contractor shall design, develop, and test the following surface modeling tasks into AMP.

1.3.11.22.1 The contractor shall develop the capability to view theater-level modeling results on the map. The map will display closure, bottlenecks, and stockage levels.

1.3.11.22.2 The contractor shall provide a capability for adding cost factors, which will allow tracking of the costs for each movement. This would include, but not be limited to, costs associated with loading/offloading, transport, and vehicle request.

1.3.11.22.3 The contractor shall add functionality for calculating fuel consumption for all surface transportation.

1.3.11.23 AMP MIDAS Support and Integration. The contractor shall integrate enhancements to the MIDAS application into the AMP Federation. The AMP developer shall coordinate with the MIDAS developer to understand the new capabilities provided by each MIDAS release, support the integration of new MIDAS releases into the AMP Federation, maintain file writers in AMP to support new releases of MIDAS, and work with the MIDAS developer to understand new inputs to MIDAS. Expected MIDAS releases include enhanced support theater air/sealift modeling, and a more detailed supply plan. MIDAS requirements and priorities shall be determined at the annual AMP User's Group. The Government will coordinate with the MIDAS PMO for MIDAS enhancements to support the AMP Federation.

1.3.11.24 AMP ELIST Support and Integration. The contractor shall integrate enhancements to the ELIST application into the AMP Federation. The AMP developer shall coordinate with the ELIST developer to understand the new capabilities provided by each ELIST release, support the integration of new ELIST releases into the AMP Federation, maintain file writers in AMP to support new releases of ELIST, and work with the ELIST developer to understand new inputs to ELIST. Expected ELIST releases include enhanced support theater air/sealift modeling, and a more detailed supply plan. ELIST requirements and priorities shall be determined at the annual AMP User's Group. The Government will coordinate with the ELIST PMO for ELIST enhancements to support the AMP Federation.

1.3.11.25 AMP Reports/Results. The contractor shall continue to design, develop and test feedback of interim and final AMP Federation results. This includes reports, results viewing and graphs.

1.3.11.25.1 Scenario Reports. The contractor shall develop additional reports to support inventory levels, demand projections, and supply chain statistics, asset utilization, unit closure and port utilization.

1.3.11.25.2 AMP INFO-21 Support and Enhancements. The contractor shall continue to support AMP output files. The contractor shall make changes as needed to incorporate changes made to model federates. Investigate the use of Interactive File Operations (INFO)-21 as a global data mining tool in a SOA environment.

1.3.11.26 AMP Critics. The contractor shall continue to design, develop, and test AMP 'Critics.' These include pre-run checks on AMP setup data and post-run checks on Federation results.

1.3.11.27 AMP Mapping Support. The contractor shall continue to design, develop, and test mapping support in AMP. The contractor shall keep AMP up-to-date with OpenMap releases and will continue to add key setup and run time information on the map.

1.3.11.27.1 Requirement and CIN Map Enhancements. The contractor shall develop functionality to provide a Plan Versus Actual (PVA) graphical display on a map for deliveries of passengers, Unit Equipment (UE) and sustainment (resupply, ammunition and POL). On a map, which includes selectable destinations from the TPFDD and sustainment destinations from the AMP sustainment setup GUI, the user will be able to toggle on individual destination locations and at that location vertical bars will appear for PAX, UE and various types of sustainment (which destinations and what commodities are shown can be toggled by the user). One bar will show the requirement up to that point of the deployment and one bar will show deliveries of that commodity up to that point in time as indicated on a horizontal slider bar. The PVA bars will change over the deployment time period as controlled by a horizontal slider bar. The contractor shall also make the theaters selectable to enable the user to select and view a PVA for a particular theater.

1.3.11.28 APOD Model (AMP-PAT), MIDAS, ELIST and Land, Air and Sea Warfight Model Federation Integration. The contractor shall continue to support integration of key models in AMP and keep the Federation up-to-date with APOD Model (AMP-PAT), MIDAS, ELIST and appropriate land, air and sea warfight model (at this point, derived from the Synthetic theater of War Operations Research Model (STORM) releases.

1.3.11.28.1 APOD MODEL (AMP-PAT) Integration. The contractor shall expand the API with APOD MODEL (AMP-PAT) models to automatically import cases and check for case updates. The contractor shall develop the functionality to dynamically integrate the SST into the AMP Federation.

1.3.11.29 AMP CONUS-ELIST-MIDAS Integration. The contractor shall continue to enhance, develop, and test integration of CONUS-ELIST with MIDAS in AMP. This task will be bounded by the ability of the MIDAS model to dynamically exchange data with CONUS-ELIST.

1.3.11.30 Surface Modeling. The contractor shall design, develop, and test the following surface modeling tasks into AMP.

1.3.11.30.1 The contractor shall develop the capability to limit movement of units/resupply when fuel supply is low. The contractor would need to track fuel stockage, delivery, and usage.

1.3.11.30.2 The contractor shall design, develop, and test the ability to compare multiple runs. This would include reports and graphics comparing closure, asset utilization, cost, and other attributes.

1.3.11.30.3 The contractor shall add the capability to track, store, and retrograde empty pallets and containers. The contractor shall provide functionality to calculate when/where pallets and containers are unpacked and returned to inventory, and retrograde empty pallets/containers back to CONUS.

1.3.11.31 AMP Seabasing Capability. The contractor shall provide the capability to fully model seabasing within the AMP Federation.

1.3.11.31.1 The contractor shall design, develop, and test the capability to model a port as a dual port (i.e., as both an airport and a seaport).

1.3.11.31.2 The contractor shall develop the ability to constrain storage, which will constrain offload at the seabase port.

1.3.11.31.3 The contractor shall develop the ability to model multiple storage areas, each with their own characteristics, as well as with the ability to restrict cargo by type from different storage areas.

1.3.11.31.4 The contractor shall provide the capability to explicitly model vertical lift aircraft.

1.3.11.31.5 The contractor shall allow for the movement of the seabase over time, to include dynamically changing the sea network.

1.3.11.32 Collect and Analyze Data. The contractor shall develop software that will automatically organize and insert into AMP, cleansed, historical sustainment demand and transportation requirements data from the GDSS, GATES, WPS, SDDDB, and IDE systems/sources.

Enhancements (Option Year II):

1.3.11.33 AMP Federation. The contractor shall maintain and expand Federation API and data model.

1.3.11.34 Surface Modeling. The contractor shall design, develop, and test the following surface modeling tasks into AMP.

1.3.11.34.1 The contractor shall develop the capability to degrade roads over time.

1.3.11.34.2 The contractor shall design, develop, and test the capability of movement off the road network. The contractor shall calculate traffic ability of units across open terrain to determine the time it would take to move across this area.

1.3.11.34.3 The contractor shall add the ability to change attributes based on time of day or day of week (i.e., alternate routes could be introduced, based on time of day because of differing shifts).

1.3.11.35 AMP Seabasing Capability. The contractor shall provide the capability to fully model seabasing within the AMP Federation.

1.3.11.35.1 The contractor shall add capacitated storage at the seabase by cargo class.

1.3.11.35.2 The contractor shall add the ability to model rotary wing cargo and PAX movements through the seabase.

1.3.11.35.3 The contractor shall add the ability to model different types of lighterage systems.

1.3.11.35.4 The contractor shall add Level 4 loading of ships.

1.3.11.35.5 The contractor shall design and develop the capability to model not only strategic movement of cargo/PAX into a seabase, but also movement from the seabase into theater ports.

1.3.11.35.6 The contractor shall provide the capability to incrementally offload ships at the seabase.

1.3.11.36 Federation Support. In the strategic model, the contractor shall provide the capability to model capacitated land links and provide associated data to other federated models.

1.3.11.37 AMP Data Management. The contractor shall ensure AMP data is compliant with USTRANSCOM's DPIEDM or its suitable substitute, as approved by the USTRANSCOM EA group.

1.3.11.38 AMP Design. The contractor shall continue to design the infrastructure and GUI to support Federation integration efforts. The design will support the future addition of, and changes to, existing federates. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users.

1.3.11.39 AMP MIDAS Support. The contractor shall support MIDAS releases and maintain MIDAS file writers to support new functionality in MIDAS.

1.3.11.40 AMP Security. The contractor shall continue to design, develop, test, and apply required security features.

1.3.11.41 AMP Reports/Results. The contractor shall continue to design, develop, and test feedback of interim and final AMP Federation results with user friendly reports. The contractor shall provide for reports to enable analysts to analyze more efficiently AMP model output. The developer shall develop these reports concurrently with the development of new functionality.

1.3.11.42 AMP Critics. The contractor shall continue to design, develop, and test AMP 'Critics.' The contractor shall provide for the development of six critics.

1.3.11.43 AMP Mapping Support. The contractor shall continue to design, develop, and test mapping support in AMP and add more robust mapping capabilities. Examples include, but are not necessarily limited to: multi-select and deletion; map-based editing of airports, seaports, ships, requirements, etc, force arrows, new map layers and more detailed maps; and a context-sensitive map layer. Keep AMP up-to-date with OpenMap releases. Continue to add key setup and run time information on the map.

1.3.11.44 AMP, APOD MODEL (AMP-PAT), MIDAS, and ELIST Federation Integration. The contractor shall continue to support integration of key models in AMP and will keep the AMP Federation up-to-date with APOD MODEL (AMP-PAT), MIDAS, JICM, and ELIST releases. The contractor shall continue to automatically identify enablers in the deployment plan and optionally adjust port throughputs by the use of Master Scenario Event List (MSEL) throughput changes into the Federation.

1.3.11.45 AMP-ELIST Integration Support. The contractor shall maintain the direct interface to ELIST that supports programmatic controls of ELIST from AMP to allow integrated requirements editing in ETEdit. Support requirements synchronization with ELIST.

1.3.11.46 Transition Support for Surface Distribution Model

1.3.11.46.1 The contractor shall develop a comprehensive installer that installs all AMP models and tools.

1.3.11.46.2 The contractor shall design, prototype, and test a surface distribution model to support movement from origins to POEs and PODs to point of use, using Government accepted surface movement algorithms.

1.3.11.46.2.1 The developed surface distribution model shall have the ability to restrict usage to MSRs based on analyst input/designation. The model shall display the routes used by the route finding algorithm.

1.3.11.46.2.2 The developed surface distribution model shall be able to load several partial loads on a single vehicle and deliver them to their designated destination, as opposed to using a separate vehicle to deliver each partial load.

1.3.11.47 Analytical Service Oriented Architecture Environment

1.3.11.47.1 The contractor shall develop an initial Requirement Line Number (RLN) load estimator for ships and aircraft.

1.3.11.47.2 The contractor shall develop an initial cargo throughput estimator between locations.

1.3.11.47.3 The contractor shall develop an initial ability to display sealift measures for deployment requirements (Volume, Area, Containers, as written to MIDAS.REQ files).

Enhancements (Option Year III):

1.3.11.48 AMP Federation. The contractor shall maintain and expand Federation API and data model.

1.3.11.49 AMP Infrastructure. The contractor shall design, develop, and test the needed infrastructure to support the installation and updating of federates. The AMP infrastructure will be extensible to meet future USTRANSCOM needs. The AMP infrastructure will be compliant with USTRANSCOM EA standards.

1.3.11.50 AMP Security. The contractor shall design, develop, test and apply required security features.

1.3.11.51 AMP Data Management. The contractor shall ensure AMP data is compliant with USTRANSCOM's DPIEDM.

1.3.11.52 AMP Design. The contractor shall design the infrastructure and GUI to support Federation integration efforts. The design will support the future addition of and change to existing federates. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users.

1.3.11.53 Aerial Refueling Deployment. The contractor shall provide within the AMP construct the capability to utilize tanker aircraft in a dual role of air refueling and airlift capacity. The air refueling role will support the deployment of tactical aircraft from a rear-based airfield to a forward base. Tanker aircraft from en route locations must support deploying tactical aircraft en route to a forward base.

1.3.11.54 CBRN Leaker Analysis. The contractor shall provide the capability within the AMP-JAnT Federation to model TBM CBRN attacks and their impacts on key distribution nodes by federating with an air defense model (e.g. EADSim) and the STORM warfight model. Impacts on airfield and seaport operations must be able to be measured as a function of throughput.

1.3.11.55 Medical Evacuation Modeling. The contractor shall provide the capability to model rapid patient movement from an in-theater location or global locations to support humanitarian operations. Included in this task is the ability to support aero-medical aircraft types, generation of patient requirements; movement of patients from forward locations/hospitals to the aeromedical staging areas to the airfield for onloading to waiting organic and civilian aircraft for transportation to CONUS locations or intermediate medical facilities.

1.3.11.56 JRaDS Modeling. The contractor shall provide the capability in the Surface Model to support the Joint Recovery and Distribution System vehicle and concept of operations. JRaDS will be able to support theater distribution in its entirety within the construct of the Surface Model including theater transportation pools.

1.3.11.57 Homeland Defense. The contractor shall provide the capability of supporting Homeland Defense Distribution Modeling within the AMP Federation. Included is the movement of sustainment to areas of attack within the homeland over riverine crossings due to bridge outages; aerial refueling support of Combat Air Patrol over cities of interest; movement of sustainment to areas of interest; transportation by rotary wing assets to remote locations and medical evacuation of casualties to medical facilities.

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for CLIN 0001 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 0002 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
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POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
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To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 0003 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 1001 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 3001 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2012 TO 30-SEP-2013	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2012 TO 30-SEP-2013	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 3002 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2012 TO 30-SEP-2013	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
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POP 01-OCT-2012 TO 30-SEP-2013	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
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The following Delivery Schedule item for CLIN 3003 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2012 TO 30-SEP-2013	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2012 TO 30-SEP-2013	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

SECTION I - CONTRACT CLAUSES

The following have been added by reference:

252.227-7015	Technical Data--Commercial Items	DEC 2011
252.227-7025	Limitations on the Use or Disclosure of Government- Furnished Information Marked with Restrictive Legends	MAR 2011
252.227-7028	Technical Data or Computer Software Previously Delivered to the Government	JUN 1995

The following have been deleted:

52.227-11	Patent Rights--Ownership By The Contractor	DEC 2007
52.227-17	Rights In Data-Special Works	DEC 2007

(End of Summary of Changes)

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF 9

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. HTC711-10-D-S002		2. DELIVERY ORDER/ CALL NO. 0001		3. DATE OF ORDER/CALL (YYYYMMDD) 2009 Oct 01		4. REQ./ PURCH. REQUEST NO. F3ST959098A001		5. PRIORITY					
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		CODE HTC711		7. ADMINISTERED BY (if other than 6) SEE ITEM 6				8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)					
9. CONTRACTOR BBN TECHNOLOGIES CORP. NAME EILEEN NAYLOR AND 10 MOULTON ST ADDRESS CAMBRIDGE MA 02138-1119		CODE 3U6L5		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE 12. DISCOUNT TERMS Net 30 Days		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED					
14. SHIP TO USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357		CODE F3ST95		15. PAYMENT WILL BE MADE BY DFAS-LIMESTONE - F67100 ATTN: DFAS-LI-JAQBDD 27 ARKANSAS RD LIMESTONE ME 04751-6216		CODE F67100		MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.					
16. TYPE OF ORDER		DELIVERY/ CALL		X		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.							
		PURCHASE				Reference your quote dated Furnish the following on terms specified herein. REF:							
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.													
NAME OF CONTRACTOR				SIGNATURE		TYPED NAME AND TITLE		DATE SIGNED (YYYYMMDD)					
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:													
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule													
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES			20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT		22. UNIT PRICE		23. AMOUNT		
		SEE SCHEDULE											
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.				24. UNITED STATES OF AMERICA TEL: 618-229-2469 EMAIL: carey.gropp@ustrancom.mil BY: CAREY N. GROPP				25. TOTAL \$2,667,417.00		26. DIFFERENCES			
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED													
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE						
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE					28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS				
f. TELEPHONE NUMBER					g. E-MAIL ADDRESS					32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR	
36. I certify this account is correct and proper for payment.					31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL					34. CHECK NUMBER			
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER								35. BILL OF LADING NO.			
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.		42. S/R VOUCHER NO.			

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Labor LH FOB: Destination SIGNAL CODE: A				
				TOT ESTIMATED PRICE	\$0.00
				CEILING PRICE	\$0.00
ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AA	Labor - TWCF CAP SW LH Labor, in accordance with Task Order Level PWS para 1.3.4.1-1.3.4.3, 1.3.11.2, and 1.3.11.6.1-1.3.11.6.7, for the period of 1 Oct 09 - 30 Sep 10. FOB: Destination PURCHASE REQUEST NUMBER: F3ST959098A001 SIGNAL CODE: A	773,163	Lot	\$1.00	\$773,163.00
				TOT ESTIMATED PRICE	\$773,163.00
				CEILING PRICE	\$0.00
	ACRN AA CIN: F3ST959098A0010000AB				\$773,163.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AB	Labor - TWCF OPS LH Labor, in accordance with Task Order Level PWS para 1.3.1.1-1.3.1.8, 1.3.2, 1.3.3, 1.3.5.1-1.3.5.2, 1.3.6.1.1, 1.3.6.2.1, 1.3.6.3-1.3.6.5, 1.3.7-1.3.7.1, 1.3.8.1- 1.3.8.4, 1.3.9-1.3.9.1, 1.3.10.1-1.3.10.2, 1.3.10.3.1-1.3.10.3.5, 1.3.11.1, 1.3.11.3- 1.3.11.5, 1.3.11.9-1.3.11.12, and 1.3.11.14-1.3.11.16.2, for the period of 1 Oct 09 - 30 Sep 10. FOB: Destination PURCHASE REQUEST NUMBER: F3ST959098A001 SIGNAL CODE: A	1,464,758	Lot	\$1.00	\$1,464,758.00
TOT ESTIMATED PRICE					\$1,464,758.00
CEILING PRICE					\$0.00
ACRN AB CIN: F3ST959098A0010000AA					\$1,464,758.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AC	Labor - APOD TWCF OPS LH Labor, in accordance with Task Order Level PWS para 1.3.6.1.2-1.3.6.2.2, and 1.3.11.7.1-1.3.11.7.7, for the period of 1 Oct 09 - 30 Sep 10. FOB: Destination PURCHASE REQUEST NUMBER: F3ST959098A001 SIGNAL CODE: A	156,769	Lot	\$1.00	\$156,769.00
TOT ESTIMATED PRICE					\$156,769.00
CEILING PRICE					\$0.00
ACRN AC CIN: F3ST959098A0010000AC					\$156,769.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AD	Labor - SM/EE Integration DPO Capital LH Labor, in accordance with Task Order Level PWS para 1.3.11.8 and 1.3.11.13, for the period of 1 Oct 09 - 30 Sep 10. FOB: Destination PURCHASE REQUEST NUMBER: F3ST959098A001 SIGNAL CODE: A	233,727	Lot	\$1.00	\$233,727.00
TOT ESTIMATED PRICE					\$233,727.00
CEILING PRICE					\$0.00
ACRN AD CIN: F3ST959098A0010000AD					\$233,727.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Travel COST FOB: Destination				\$0.00
ESTIMATED COST					\$0.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002AA	Travel - TWCF OPS COST Travel, in accordance with the Federal Travel Regulations and PWS para 4.2, for the period of 1 Oct 09 - 30 Sep 10. FOB: Destination PURCHASE REQUEST NUMBER: F3ST959098A001 SIGNAL CODE: A		Lot		\$25,000.00
ESTIMATED COST					\$25,000.00
ACRN AB CIN: F3ST959098A0010000AA					\$25,000.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
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0003

\$0.00

Other Direct Costs (ODCs)

COST

FOB: Destination

ESTIMATED COST

\$0.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
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0003AA

\$14,000.00

Other Direct Costs - TWCF OPS

COST

Allowable Other Direct Costs, in accordance with PWS para 4.4, for the period of 1 Oct 09 - 30 Sep 10. General and Administrative overhead charges will not be accepted or paid for approved ODC purchases.

FOB: Destination

PURCHASE REQUEST NUMBER: F3ST959098A001

SIGNAL CODE: A

ESTIMATED COST

\$14,000.00

ACRN AB

\$14,000.00

CIN: F3ST959098A0010000AA

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	N/A	N/A	N/A	Government
0001AA	Destination	Government	Destination	Government
0001AB	Destination	Government	Destination	Government
0001AC	Destination	Government	Destination	Government
0001AD	Destination	Government	Destination	Government
0002	N/A	N/A	N/A	Government
0002AA	Destination	Government	Destination	Government
0003	N/A	N/A	N/A	Government
0003AA	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	N/A	N/A	N/A	N/A
0001AA	POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
0001AB	POP 01-OCT-2009 TO 30-SEP-2010	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
0001AC	POP 01-OCT-2009 TO 30-SEP-2010	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
0001AD	POP 01-OCT-2009 TO 30-SEP-2010	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
0002	N/A	N/A	N/A	N/A
0002AA	POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
0003	N/A	N/A	N/A	N/A
0003AA	POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.FD50 6F0 70AB 249010 G642A4 70110 000000 667100 F67100
AMOUNT: \$773,163.00
CIN F3ST959098A0010000AB: \$773,163.00

AB: 97X4930.FD50 6F0 70AB 129010 G642A4 70210 000000 667100 F67100
AMOUNT: \$1,503,758.00
CIN F3ST959098A0010000AA: \$1,503,758.00

AC: 97X4930.FD50 6F0 70AB 129020 G642A4 70210 000000 667100 F67100
AMOUNT: \$156,769.00
CIN F3ST959098A0010000AC: \$156,769.00

AD: 97X4930.FD50 6F9 70AB 249010 G62X00 70110 000000 667100 F67100 ESP:9D
AMOUNT: \$233,727.00
CIN F3ST959098A0010000AD: \$233,727.00

Section J - List of Documents, Exhibits and Other Attachments

LIST OF ATTACHMENTS

Atch/Exhib NR	FORM NR	TITLE	DATE	NR OF PAGES
1	N/A	Task Order Level Performance Work Statement (PWS)	23 Jun 09	19
2	N/A	Wide Area Workflow (WAWF) Electronic Invoicing Instructions	1 Oct 09	1

ATTACHMENT 1

**HTC711-10-D-S002-
00001**

**PERFORMANCE WORK STATEMENT
FOR
TASK ORDER (TO) 0001
ANALYSIS OF MOBILITY PLATFORM (AMP)**

23 June 2009

1.0 Reserved.

1.1 Reserved.

1.2 Reserved.

1.3 Specific Tasks.

1.3.1 Task Area 1 – Contract Management. This task area shall encompass overall contract management to include administrative, clerical, documentation, and related functions. The contractor shall designate an individual from the contractor's resources to be the focal point for all contract management communications with USTRANSCOM, and to be responsible for ensuring successful accomplishment of PWS tasks. Point of contact (POC) information, to include name, title, phone number, and email address, are to be provided to the Contracting Officer at the Post-Award Conference.

1.3.1.1 Task Area 1 Subtask 1 - Task Order Management Plan (TOMP). The contractor shall prepare a TOMP, encompassing all task orders, describing tasks, dependencies, management and technical approach, organizational resources, and management controls to be employed to meet cost, performance and schedule requirements throughout contract execution. The TOMP shall include the contractor's approach to plan for, identify, monitor, and control risk in all phases of this effort. The contractor shall update the TOMP after receipt of each task order.

Deliverable: TOMP

1.3.1.2 Task Area 1 Subtask 2 - Monthly Status Reports (MSR). The contractor shall submit an MSR summarizing overall status, progress, and recommendations and shall include details and results of the work performed during the reporting period, identifying any issues, problem areas, and items that require Government action; work planned for the next month; dates and locations of IPRs conducted; hours worked by contractor and sub-contractor by labor category; the task(s) performed and the hours performed on each task(s) by labor category; trips conducted and meetings attended; cost, schedule and performance variance that includes a description of how the variances were determined; potential risks for future progress; a comparison of the status achieved to planned goals and resources expended; a list of deliverables provided for each task area; status of documentation; and key personnel (e.g., project manager, lead developer, lead engineer) changes. Estimated and actual travel costs shall be reported by task order number, contractor name, trip location and purpose, and dates of travel. The MSR shall include copies of invoices for all travel performed during the reporting period.

Deliverable: MSR

1.3.1.3 Task Area 1 Subtask 3 - In-Process Reviews (IPRs). The contractor shall conduct and/or host IPRs on a quarterly basis or as the PM requires. The PM will determine dates and whether IPRs will be held at the contractor's site, at USTRANSCOM, via video teleconference, web-cast, or conference call. IPRs shall summarize status, progress, new capability requirements and program schedule to include new requirements, risk, and remediation plan in any task area. The contractor shall prepare presentation materials and provide to the PM in accordance with the schedule in the table in Paragraph 1.4. At a minimum, the contractor shall include in the minutes a record of activity, decisions made, date, location and attendees.

Deliverable: Presentation Materials, IPR Meeting Minutes and Slides

1.3.1.4 Task Area 1 Subtask 4 - Integrated Management Schedule (IMS). The contractor shall develop and deliver to the PM an IMS that provides a schedule for all major milestones as currently tasked to the contractor. It shall also include anticipated future work to support schedule and workload de-confliction. The IMS shall include a high-level Master Schedule which lists the major milestones and completion dates associated with each. The IMS shall also include sub-schedules for each major milestone that lists closure criteria (specific actions that must be taken prior to reaching the milestone) and scheduled completion dates for each closure criterion. The schedule shall address design, development, test, and deployment for approved new system capabilities, and shall show the critical path. The contractor shall keep this schedule current, making schedule changes as necessary after coordinating these changes with the PM.

Deliverable: IMS (delivered with the MSR, or when circumstances necessitate a change to the schedule, whichever occurs first.)

1.3.1.5 Task Area 1 Subtask 5 - Contract Summary Report (CSR). The contractor shall prepare and provide to the COR a CSR to include a summary of work performed, a complete bibliography, where data was gathered, and from whom. The report shall identify processes used, lessons learned, actions of note, any identified gaps, and highlight any existing areas of concern.

Deliverable: CSR

1.3.1.6 Task Area 1 Subtask 6 - Variance Report. The contractor shall notify the PM and the COR when any labor cost varies more than 5 percent from the baseline or latest PM-accepted change to the baseline. The contractor shall schedule a meeting with the PM and the COR when any labor cost varies more than 10 percent from the baseline or latest PM-accepted change to the baseline.

Deliverable: Variance Report

1.3.1.7 Task Area 1 Subtask 7 - Demonstration Support. The contractor shall conduct and support quarterly technical presentations or demonstrations to USTRANSCOM, other DOD commands, and other AMP users as requested by the PM. Presentations and demonstrations shall be conducted at various locations specified by the PM. This support may include but is not limited to scenario and system set-up and other subject matter expert support.

1.3.1.8 Task Area 1 Subtask 8 – Teleconferences. The contractor shall conduct weekly telephone conferences with the PM to provide current status of all tasks.

1.3.2 Task Area 2 - Studies Support. The contractor shall support planning and execution of analytical studies such as the Defense Program Guidance's Mobility Capabilities and Requirements Studies and Quadrennial Defense Review. This may require software modifications, analysis of study requirements and products, and on-site support. As appropriate to the specific study, the contractor shall work with MIDAS, ELIST, and other model development contractors to define upgrades and enhancements to software of AMP, MIDAS, ELIST, and other models, and coordinate release and testing schedules. The contractor shall make necessary modifications to the AMP Federate and shall enhance the graphical user interfaces (GUI) and/or charts as directed by the COR or the PM. The contractor shall define an approach to integrate the Federation, coordinate integration for the Federation, conduct integration and testing, and perform trouble-shooting to repair or modify software problems identified during model execution.

1.3.3 Task Area 3 - Requirements Definition. The Functional Manager will provide a prioritized list of functional requirements to the PM, who then will provide these requirements to the contractor. The contractor shall coordinate and integrate the technical expertise required to construct the system and associated databases (if applicable), and support field testing in a limited operational environment. To implement Federation-level requirements, the contractor shall coordinate with developers of other Federation systems as described in the Government-provided Memoranda of Agreement between AMP and these other systems.

1.3.4 Task Area 4 –Design and Development. The contractor shall design, develop, and test the AMP infrastructure and GUI to support Federation integration efforts. The design and development will support the future addition of, and changes to, existing federates.

The contractor shall develop and test new system capabilities using commercial best practices appropriate to the AMP functional requirements. For System Development, the contractor shall:

- Design, code, test, document, and support full system integration of software and software releases (including software changes), assessments and prototypes supporting application development.
- Propose release content and schedules based upon the known Government requirements and priorities.
- Provide necessary models and simulations to support the verification and validation.
- Provide software size, cost, and schedule estimates, and include justification and confidence level behind those estimates.
- Deliver any developed corporate applications software artifacts to the PMO.

1.3.4.1 Task Area 4 Subtask 1 – Software Development. The contractor shall employ software engineering commercial best practices in performing software development and support. The contractor shall designate a lead engineer for the software engineering and technical interactions with USTRANSCOM. The contractor shall be responsible for providing design, development, test and integration, configuration management (CM), quality assurance (QA), and documentation for all AMP software. The contractor shall provide a Software Requirements Specification (SRS) that describes the user's functional requirements in detail and in a form that will support design and development of software to satisfy these requirements. The contractor also shall provide a Database Design Description or Data Structure Design Description, if applicable. Prior to release of the software to the user test environment, the contractor will deliver a Software Version Description Document (VDD) following the configuration management procedures. USTRANSCOM/TCJ6-PE shall review and approve design documentation prior to contractor implementation. The contractor shall maintain a software problem database to document and track the progress of software fixes.

Deliverables: Database Design Description or Data Structure Design Description (if applicable); Software Requirements Specification, Software VDD.

1.3.4.2 Task Area 4 Subtask 2 – Software and System Testing. The contractor shall support Government Witness Testing and Government User Acceptance Testing of the software that ensures the software is valid and requirements are met. The contractor shall not implement changes to the maintained software until the Government has completed acceptance testing and the Government has accepted the change as valid. The contractor shall perform the following testing-related activities:

- Perform system, regression, and security testing.
- Perform functionality and/or integration test.
- Provide data management evaluation and provide System Administration (SA) support evaluation to assess various automated information system testing components and configurations.
- Document test procedures and test results.
- Maintain test batch items in Configuration Management Library.

Deliverables: System Test Procedures, System Test Descriptions, System Test Plans, System Test Reports, Data Management and SA Support Evaluations

1.3.4.3 Task Area 4 Subtask 3 – AMP Software Releases. The contractor shall provide a minimum of one major, baselined AMP release per year, along with intervening mission-critical patches and minor releases (minor releases not to exceed 12 per year) occurring between major releases. The contractor shall develop the necessary software release documentation and maintain it in a format acceptable to the Government. The contractor shall update the User's Manual to provide USTRANSCOM functional personnel appropriate guidance for system operation.

The contractor shall perform pertinent demonstrations at AMP IPRs to support the major release deliveries and at AMP User Conferences, and provide software releases on compact or digital video discs (CDs or DVDs). The contractor also shall deliver software source code with each release. The contractor shall assist the Government in achieving software acceptance through the USTRANSCOM security certification and accreditation process by accomplishing tasks described in Paragraph 1.3.8.3.

Deliverables: Software release (CD/DVD), User's Manual (update; include user security features), software source code, computer software release documentation, technical data.

1.3.5 Task Area 5 – System Interface Support. The contractor shall support the Government in interface support for the system as indicated in the following subtasks.

1.3.5.1 Task Area 5 Subtask 1 – System Interface Maintenance. The contractor shall provide system interface maintenance to include those changes required to correct performance of data exchange functions described in current system or software documentation. The contractor shall support the Government in initiating system interface development efforts to correct problems according to the priority established by the PM.

1.3.5.2 Task Area 5 Subtask 2 – System Interface Development and Modification. The contractor shall support the Government in engineering and modifying existing system interfaces to meet current and projected data exchange requirements. Interfaces may be required between systems of other Government agencies or commercial systems. The contractor shall develop or update the Interface Requirement Specifications (IRS) and the IRDD, as required. When directed by the PM, the contractor shall analyze changes to system interfaces to include (but not be limited to) requirements analysis, clarification of the requirement with the originator, recommendations regarding feasibility and cost effectiveness, what computer resources and man-hours the project shall require, projected delivery date, and the consequences of the proposed change. The contractor shall support the Government in initiating system interface engineering and modification efforts to implement Baseline Change Requests (BCRs) according to the priority established by the CMP and Configuration Control Board (CCB). The contractor shall ensure that all interface engineering and modification efforts comply with DOD Directive 8320.2, Data Sharing in a Net-Centric DOD, DOD Net-Centric Data Strategy, and standards set forth in the USTRANSCOM DTS EA. (Note: An Interface Control Document (ICD) or equivalent document may substitute for the IRS and IRDD, if approved by the PM.)

Deliverables: IRS, IRDD

1.3.6 Task Area 6 – Maintenance.

1.3.6.1 Task Area 6 Subtask 1 – Software Maintenance.

1.3.6.1.1 AMP Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP.

1.3.6.1.2 APOD Model (AMP-PAT) Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP.

1.3.6.2 Task Area 6 Subtask 2 – System Maintenance.

1.3.6.2.1 AMP System Maintenance. The contractor shall provide on-going support to maintain normal system operations. Normal operation for the system is interpreted to mean that the system software and database or data structure (if applicable) is available except during periods of routine maintenance or when software is released. The PM, after coordinating with the functional users, will approve the timing of any non-emergency contractor downtime for hardware and software maintenance. The contractor shall restore the maintained software to normal operation whenever the contractor is informed such normal operation has been interrupted. Software maintenance also includes those changes that are required to correct the performance of functions described in existing system or software documentation. The contractor shall obtain approval from the Government PM for required operational system downtime.

1.3.6.2.2 APOD Model (AMP-PAT) System Maintenance. The contractor shall provide on-going support to maintain normal system operations. Normal operation for the system is interpreted to mean that the system software and database or data structure (if applicable) is available except during periods of routine maintenance or when software is released. The PM, after coordinating with the functional users, will approve the timing of any non-emergency contractor downtime for hardware and software maintenance. The contractor shall restore the

maintained software to normal operation whenever the contractor is informed such normal operation has been interrupted. Software maintenance also includes those changes that are required to correct the performance of functions described in existing system or software documentation. The contractor shall obtain approval from the Government PM for required operational system downtime.

1.3.6.3 Task Area 6 Subtask 3 – Architecture Support. The contractor shall develop or update, as required, the system and technical architecture documents (System View (SV) and Technical View (TV)) in accordance with the latest version of the DOD Architecture Framework (DODAF). These views shall employ the same language and references as the Operational Views (OV) that the PMO will supply. The contractor shall provide architecture data and products to support the Execution and Effects Review process.

Deliverable: Architecture products in latest DODAF format

1.3.6.4 Task Area 6 Subtask 4 – Logical Data Model. During the creation of any structure (databases, interfaces, application screens, etc) which stores, manipulates, transmits, or receives data, the contractor shall include any new data elements in the system LDM, to include a complete representation of the data elements that comprise that data. The complete representation must contain, at a minimum, the data element name, its definition, relationship with other data elements, its data type, data length and a list of enumerated values, if applicable. The complete representation must also employ a published specification language such as IDEF1X or UML. The contractor shall submit a complete description of the selected specification language and a completed data model to the PMO for approval. The contractor shall coordinate with the PMO to consult with TCJ6-PE and/or TCJ6-AD for advice and review the USTRANSCOM Prescriptive Information Reference Model Manual of the JDDA-E for additional guidance on database design/development and Standard Information Exchange implementation. The contractor shall participate in the M&S data standardization working group.

Deliverable: LDM

1.3.6.5 Task Area 6 Subtask 5 – Data Structure Support. The contractor shall provide data structure support. Support tasks include, but are not limited to, the following:

- Manage the production data schema and objects.
- Develop a Data Dictionary.
- Coordinate use of the test data schema and objects.
- Manage user accounts and user permissions.
- Monitor data structure growth and performance.
- Perform data structure log/trace file maintenance.
- Support data backup and recovery.
- Support data replication processes and procedures.
- Support the Execution and Effects Review (formerly Technical Assessment) activities and required updates.

The contractor shall provide data administration support for the system. The contractor shall make all data structure changes and modifications identified by the contractor or the Government according to the Configuration Management Plan (CMP.) The contractor shall make all changes necessary to program documentation as a result of data structure changes. The Government or the contractor will report problems or requirements on a Change Request (CR.) The contractor shall evaluate problems or requirements reported on the CR. This evaluation shall include, but not be limited to, requirements analysis, clarification of the problem or requirement with the originator, determining if correcting the problem is feasible and cost effective, what computer resources and man-hours the project shall require, its adherence to standards, and the consequences of the proposed change.

Deliverable: Data Dictionary

1.3.7 Task Area 7 – System Administration. The contractor shall provide on-site SA support to USTRANSCOM SAs for the system. This includes the following activities:

- Plan, schedule and accomplish installation of new or modified hardware and software, to include system patches, updates, and enhancements for the system servers. Troubleshoot AMP installation problems.
- Support installation, optimization, backup, recovery, modification and upgrade of system servers and software. Debug AMP software and test software releases.
- Monitor operational node performance and recommend possible improvements.
- Accomplish routine system maintenance functions such as rebooting servers, running backups and coordinating hardware repair/replacement.
- Troubleshoot and resolve system performance problems for system servers.
- Provide technical support for system reengineering efforts.
- Work with Government security and networking personnel on system-related issues.
- Support the Execution and Effects Review activities and required updates.

The contractor shall update the system administration manual to support the system that includes account administration; server installation, configuration, and administration; software installation; obtaining, generating, and updating reference files, shared drives, and web pages; troubleshooting and resolving operating system conflicts, maintaining logs, and creating reports, as required.

Deliverable: System Administration Manual

1.3.7.1 Task Area 7 Subtask 1 – AMP Federation Model User Training. The contractor shall provide AMP Federation Model training once per FY. Training shall be on the use of the AMP Federation modeling tools. USTRANSCOM will coordinate and provide the training classroom (including hardware) if such training is required. Training shall be consistent with industry standards and result in the trainees' full understanding of the capabilities and the designed use of the associated software applications and Graphic User Interfaces.

1.3.8 Task Area 8 – Information Assurance (IA). The contractor shall establish an IA Program to implement and sustain appropriate IA management, operational, and technical controls and processes as required to ensure compliance with DOD and Chairman Joint Chiefs of Staff (CJCS) requirements, and Joint Task Force – Global Network Operations (JTF-GNO) taskings. The contractor shall submit for Government approval an overarching security plan that describes their strategy for implementation of IA and Industrial Security requirements throughout the life of the contract. The contractor shall ensure that information system security engineering (ISSE) is employed to develop or modify any IA component of the system architecture. Such modifications will be made in compliance with all analogous or interfacing IA component(s) of the GIG Architecture and will be designed to make maximum use of the DOD enterprise IA capabilities and services. The contractor shall also support periodic Government inspections and reviews to ensure compliance with DOD IA requirements throughout the contract performance period. Contractor IA Program capabilities shall include but not be limited to processes and procedures for vulnerability management, patch management, incident response, Information Condition (INFOCON), system and application security, configuration management, risk management, and situational awareness.

1.3.8.1 Task Area 8 Subtask 1 – IA Design. The contractor shall protect and prevent unauthorized access to Government sensitive unclassified and classified data and IT resources supporting the system. The contractor shall ensure appropriate IA controls are designed, developed and implemented to provide for non-repudiation, confidentiality, integrity, and availability of Government systems, applications, and data. The contractor shall leverage, to the maximum extent possible, automated tools to identify and remediate vulnerabilities or weaknesses in the system design and coding that could be exploited or that may result in system or data compromise. The contractor shall work with other DOD activities and vendors as required to implement these IA controls. The contractor shall perform vulnerability management activities as part of all AMP development and sustainment. The contractor shall coordinate with the PMO to document the installation of vendor security patches or support Government development of a Plan of Action & Milestones (POA&M) when patches cannot be applied. In coordination with the COR or PM, the contractor shall design, develop and implement secure AMP applications and configurations through applying applicable DOD security technical implementation guides (STIGs), checklists, vendor security guidance, industry best practices, and applicable vendor product security patches. The contractor shall ensure AMP applications are in compliance with DODI 8551.01p and leverage approved ports, protocols and services. An Information Assurance, Security Architecture and Engineering (IASAE)-qualified person shall

participate in Government and contractor formal and informal design reviews to identify potential security weaknesses, deficiencies, and/or vulnerabilities in the design.

1.3.8.2 Task Area 8 Subtask 2 – Security Testing. The IASAE shall ensure appropriate security requirements are included as part of the AMP requirements traceability matrix and are evaluated as part of the Security Test and Evaluation (ST&E). Whenever possible the contractor shall support the ST&E in conjunction with scheduled system development and acceptance testing. As part of the contractor's change control process, the contractor shall ensure participation by the IASAE- or IA-qualified representative to evaluate the impact of each change on security. The contractor shall document the results of this evaluation. When directed by the COR or PM, the contractor also shall test vendor security patches for AMP production systems and applications to assess their impact on system functionality prior to their installation.

1.3.8.3 Task Area 8 Subtask 3 – DOD Information Assurance Certification and Accreditation Process. The contractor shall assume responsibility for management and update of existing system security documentation that were developed to facilitate AMP's security accreditation. The contractor shall perform security certification activities as required to maintain current system accreditation and support re-accreditation. The contractor shall support USTRANSCOM's migration to the DOD Enterprise Mission Assurance Support Service (eMASS) system for automated accomplishment of the certification and accreditation process. The contractor shall update eMASS as required and provide supporting IA documentation for upload as artifacts in eMASS.

As a minimum, the contractor shall ensure compliance with applicable provisions of DOD Directive (DODD) 8500.1, Information Assurance; DOD Instruction 8500.2, Information Assurance Implementation; DODD 8570.1, Information Assurance Training, Certification and Workforce Management; CJCS Manual 6510.01, Defense-in-Depth: IA and Computer Network Defense (CND); DODI 8520.2, PKI and Public Key (PK) Enabling; DODI 8551.1, Ports, Protocols, and Services Management (PPSM); and DODI 8510.01 DIACAP guidance. AMP has been designated Mission Assurance Category (MAC) III classified for the purposes of applying IA controls.

The contractor shall develop and maintain the following documentation required to support DIACAP accreditation decisions:

The Information Assurance and Industrial Security Plan (IA&ISP) shall serve as the overarching document. The contractor shall deliver the other documents listed below as appendices to the IA&ISP.

- ISP - Information Security Plan
- CCB Charter
- CMP - Configuration Management Plan
- COOP - Continuity Of Operations Plan
- ISA - Interconnection Security Agreement
- System Classification Guide
- System Security Policy
- Risk Management Review Report

In addition the contractor shall provide a complete DIACAP package consisting of:

- SIP - System Identification Profile
- DIP - DIACAP Implementation Plan
- DIACAP Scorecard

Deliverables: IA&ISP (and associated appendices), DIACAP package.

1.3.8.4 Task Area 8 Subtask 4 – Security Personnel Requirements. The contractor shall provide appropriate skilled and certified IA personnel resources to implement and manage the IA program in accordance with the applicable provisions of DODD 8570.01. The contractor shall coordinate with the Government to establish appropriate certification levels for each employee responsible for performing full and/or part-time IA related activities. Upon request by the Government, the contractor shall periodically report the certification status for each employee to satisfy Federal Information Security Management Act (FISMA) reporting requirements. In addition,

contractor resources shall include IASAE-qualified personnel with experience, and certification to facilitate the design, development, and evaluation of AMP IA technical controls.

1.3.9 Task Area 9 – Contingency Operations. The Continuity of Operations Plan (COOP) defines the methodology for providing a back-up capability for system users in the event that the primary capability is not available. The contractor shall provide a Contingency Operations Document (contractor specific) that aligns with the Government COOP. The contractor's Contingency Operations Document shall include SA and data storage support procedures at the recovery site. The hardware and software for the site will be Government-furnished to include all maintenance and licenses. Commercial Off-the-Shelf (COTS) software versions will be the same as the versions used in the production environment.

Deliverable: Contingency Operations Document

1.3.9.1 Task Area 9 Subtask 1 – Execution and Effects Review Documentation and Support Requirements. The contractor shall provide the necessary support, to include documentation and advice to meet the USTRANSCOM security and technical requirements of the USTRANSCOM Execution and Effects Review process.

Deliverable: Execution and Effects Review Documents

1.3.10 Task Area 10 – Configuration Management. This support is required to meet the DIACAP and USTRANSCOM technical and security requirements. The CM process facilitates orderly configuration identification, change identification and control, status reporting, and configuration auditing of product information for such beneficial purposes as to revise capability and improve performance, reliability, or maintainability; extend life; reduce cost; reduce risk and liability; or correct defects. CM ensures that changes take place in an identifiable and controlled process and do not adversely affect any properties of the other system or interfaces.

1.3.10.1 Task Area 10 Subtask 1 – Configuration Manager Responsibilities. The contractor's Configuration Manager shall develop a CMP and processes that is consistent with and complements the Government CMP and processes. The contractor's Configuration Manager shall establish and maintain the following:

- Baselines (versioning)
- Configuration identification
- Change control
- Configuration status accounting
- CM audits
- CM Repository
- Process improvement

Deliverable: Configuration Management Plan

1.3.10.2 Task Area 10 Subtask 2 – Configuration Identification. The contractor shall provide configuration identification as specified in their CMP. This identification may include hardware configuration items or software configuration items.

Deliverable: Updated Configuration Item Listings

1.3.10.3 Task Area 10 Subtask 3 – Change Control. The contractor shall provide change control for all AMP baselines and configuration items to include documentation, application source, and executable code. The contractor shall provide an automated configuration management tool to assist in this effort. This tool shall allow Government web access to ensure Government oversight of the change process. This tool will provide requirement and CR tracking. Additionally, the contractor shall provide a process to allow AMP users to request software improvements and development of new AMP capabilities.

1.3.10.3.1 Evaluating Change Requests. The contractor shall evaluate suggested software improvements and new capability development requests. The contractor shall document the evaluations. Evaluations include, but are not

limited to, requirements analysis, clarification of the requirement with the originator, determining if the requirement is feasible and providing a cost estimate, what computer resources and man-hours the project shall require, its adherence to standards, and the consequences of the proposed change. In addition, the contractor shall ensure participation by the IASAE or a qualified IA representative to evaluate the impact of each change on security. The contractor shall document the results of these evaluations and provide them to the PMO for evaluation via the automated change control tool and/or as a separate document depending on the amount of information required or provided.

Deliverable: Change Request Evaluation Reports

1.3.10.3.2 Configuration Control Board (CCB). Upon request from the COR or PM, the contractor's Configuration Manager may be asked to participate in the Government's CCB. This participation will be as the liaison between the Government and contractor to provide any additional information which the CCB requires.

1.3.10.3.3 Configuration Status Accounting. The contractor shall provide, upon request of the COR or PM, status of all baselines, configuration items, and status of all outstanding change requests in the automated change control tool.

Deliverable: Status Accounting Reports

1.3.10.3.4 CM Audits. The contractor shall conduct a physical and functional configuration audit of each code baseline/release delivered to the PMO.

Deliverable: Audit Reports

1.3.10.3.5 Configuration Management Process Improvement. The contractor shall provide recommendations to improve the CM process during the annual CMP review.

Deliverable: Process Improvement Recommendations

1.3.11. Task Area 11 – Enhancements. The contractor shall provide the following new software and enhancements to the existing AMP application.

1.3.11.1 AMP Federation. The contractor shall maintain and expand Federation API and data model.

1.3.11.2 AMP Infrastructure. The contractor shall design, develop, and test the needed infrastructure to support the installation and updating of federates. The AMP infrastructure will be extensible to meet future USTRANSCOM needs. The AMP infrastructure will be compliant with USTRANSCOM EA standards.

1.3.11.3 AMP Security. The contractor shall design, develop, test and apply required security features.

1.3.11.4 AMP Data Management. The contractor shall ensure AMP data is compliant with USTRANSCOM's DPIEDM.

1.3.11.5 AMP Design. The contractor shall design the infrastructure and GUI to support Federation integration efforts. The design will support the future addition of and change to existing federates. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users.

1.3.11.6 Global Infrastructure Analysis. A set of port analysis tools that provide highly detailed airport and seaport throughput analysis to support current and future warfighter needs shall be developed within the AMP Federation.

1.3.11.6.1 The contractor shall design, develop, and test changes to the AMP Federation that will incorporate the fidelity of seaport modeling.

1.3.11.6.2 The contractor shall develop code optimization techniques that will shorten SST run times.

1.3.11.6.3 The contractor shall design, develop, and test SST critics that will give analysts feedback on setup issues.

1.3.11.6.4 The contractor shall design, develop, and test the implementation of operating hours for seaports.

1.3.11.6.5 The contractor shall design, develop, and test the capability to breakdown containers.

1.3.11.6.6 The contractor shall design, develop, and test the capability of simulating Joint Logistics Over The Shore (JLOTS)/Austere port operations. This will include Auxiliary Crane Ships (T-ACS), lightering, causeways, landing craft, barges, etc.)

1.3.11.6.7 The AMP Contractor shall design, develop, and test the inclusion and modeling of tanker ships and Petroleum, Oil and Lubricants (POL) terminals.

1.3.11.7 APOD Model Enhancements.

1.3.11.7.1 The contractor shall design, develop, and test movement of outbound cargo operations (i.e., modeling of SPOE operations).

1.3.11.7.2 The contractor shall include the use of exogenous events during the simulation run.

1.3.11.7.3 The contractor shall develop detailed animation of the seaport modeling during run time.

1.3.11.7.4 The contractor shall model crane availability to support offloading capabilities.

1.3.11.7.5 The contractor shall develop a linkage between the SPOE/SPOD modeling capability and the road and rail network.

1.3.11.7.6 The contractor shall design, develop, and test the capability to process cargo in storage areas.

1.3.11.7.7 The contractor shall develop documentation for all new functionality developed within the APOD Model (AMP-PAT) tools.

1.3.11.8 Surface Modeling. The contractor shall investigate and report the feasibility of moving the surface ELIST movement functionality into AMP without using the ELIST model as a Federate, while using the MIDAS model to support theater airlift requirements (theater modeling).

1.3.11.9 AMP Reports/Results. The contractor shall continue to design, develop, and test feedback of interim and final AMP Federation results. This includes reports, results viewing, and graphs.

1.3.11.10 AMP Critics. The contractor shall continue to design, develop and test AMP 'Critics.' These include pre-run checks on AMP setup data and post-run checks on Federation results.

1.3.11.11 AMP Mapping Support. The contractor shall continue to design, develop, and test mapping support in AMP. Keep AMP up-to-date with OpenMap releases. The contractor shall continue to add key setup and run time information to the map.

1.3.11.12 APOD Model (AMP-PAT), MIDAS, ELIST Federation Integration. The contractor shall continue to support integration of key models in AMP. The contractor will keep the Federation up-to-date with APOD Model (AMP-PAT), MIDAS, and ELIST releases.

1.3.11.13 Enhance End-to-End Integration. The contractor shall continue to design, develop, and test integration of CONUS-ELIST with MIDAS in AMP. This task will be bound by the ability of the MIDAS model to dynamically exchange data with CONUS-ELIST.

1.3.11.14 Auto-Populate AMP Data Fields. The contractor shall provide the capability to auto-populate AMP data fields directly from the Mobility Planning Factors Database (MPFD).

1.3.11.15 AMP and Simulation Testing Operations Rehearsal Model (STORM) Integration. The contractor shall investigate the feasibility and resources required to integrate the AMP model with the STORM warfight model.

1.3.11.16 Model Enhancements.

1.3.11.16.1 The contractor shall provide the ability to dynamically link AMP Geographical Locations (GEOLOCs) to Joint Staff Warfight Model locations.

1.3.11.16.2 The contractor shall provide the design, development, and testing of analytical tools in support of model run results after a Federation run. The tool should be able to read and process data available from AMP and JICM.

1.4 Deliverables. The contractor shall provide all deliverables electronically to the PM; the deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software. Large files shall be provided on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD. The contractor shall provide a soft copy of each deliverable to each of the following organizational e-mail accounts: ustcj6-p-cm@ustranscom.mil and ustcj6-pc-ms@ustranscom.mil.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. "Format", as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Due Date
1.3.1.1	TOMP	Government-Determined	30 calendar days after contract award	15 days from receipt of Government comments Updates due 30 calendar days after receipt of each task order award
1.3.1.2	MSR	Government-Determined	N/A	10 th day of each month Final to be provided NLT the last day of the contract
1.3.1.3	Presentation Materials, IPR Meeting Minutes and Slides	Government-Determined	Presentation Materials due 2 days prior to IPR	5 days after IPR
1.3.1.4	IMS	Contractor and Government-Determined	15 days after contract award. Updated monthly (include with MSR) or when schedule changes.	15 days from receipt of Government comments
1.3.1.5	CSR	Government-Determined	N/A	20 days after each contract period of performance Final to be provided NLT the last day of the contract
1.3.1.6	Variance Report	Contractor-Determined	N/A	As applicable
1.3.4.1	Database Design Description/Data Structure Design Descriptions (if applicable)	Contractor-Determined Format	NLT 45 calendar days prior to each software release. One Soft Copy (e-mailed)	NLT 10 days after receipt of Government comments
1.3.4.1	Software Requirement Specifications	Contractor-Determined Format	NLT 30 calendar days prior to software release	NLT 10 days after receipt of Government comments

	(SRS)			
1.3.4.1	Software VDD	Contractor-Determined Format	NLT 60 calendar days prior to software release	NLT 10 days after receipt of Government comments.
1.3.4.2	System Test Procedures	Contractor - Determined Format	30 calendar days before scheduled release date of corresponding software version	NLT 10 days after receipt of Government comments
1.3.4.2	System Test Description	Contractor - Determined Format	30 calendar days before scheduled release date of corresponding software version	NLT 10 days after receipt of Government comments
1.3.4.2	System Test Plan	Contractor - Determined Format	30 calendar days before scheduled release date of corresponding software version	NLT 10 days after receipt of Government comments
1.3.4.2	System Test Reports	Contractor - Determined Format	N/A	Not later than 7 calendar days following completion of system test
1.3.4.2	Data Management and SA Support Evaluations	Contractor - Determined Format	N/A	Not later than 14 calendar days following completion of system test
1.3.4.3	Software Release (CD/DVD)	Contractor-Determined Format	N/A	End of performance period or at Government's request
1.3.4.3	User's Manual	Contractor-Determined Format	20 days prior to major software release	10 days after receipt of Government comments
1.3.4.3	Software Source Code	Contractor-Determined Format	N/A	End of performance period or at Government's request.
1.3.4.3	Computer Software Release Documentation	Contractor Determined Format	N/A	End of performance period or at Government's request.
1.3.4.3	Technical Data	Contractor Determined Format	N/A	End of performance period or at Government's request.
1.3.5.2	IRS or ICD (one per interface). (ICD or equivalent requires PM approval)	Contractor-Determined Format	Required when changes are made to existing interfaces or when a new interface is developed. Not later than 40 calendar days before implementation date of release containing modified or new interface.	Not later than 10 days after receipt of Government comments.
1.3.5.2	IRDD or ICD (one per interface). (ICD or equivalent requires PM approval)	Contractor-Determined Format	Not later than 40 calendar days before implementation date of release containing modified or new interface.	Not later than 10 days after receipt of Government comments.
1.3.6.3	Architecture	Government-	As required by the	NLT 15 days after receipt

	Products	Determined Format	Government	of Government comments
1.3.6.4	LDM	Contractor and Government-Determined Format	N/A	60 calendar days after contract award and 1 month after each software release, as required.
1.3.6.5	Data Dictionary	Contractor - Determined Format	NLT 30 calendar days prior to each software release	NLT 10 days after receipt of Government comments
1.3.7	System Administration Manual	Contractor-Determined Format	20 days prior to major software release	10 days after receipt of Government comments
1.3.8.3	IA&ISP	Government-Determined Format	Initial submission not later than 120 calendar days after contract award. Updates as required by the Government.	Not Later Than 15 days after receipt of Government comments.
1.3.8.3	DIACAP Package	Government-Determined Format	As directed by the Government.	Not Later Than 15 days after receipt of Government comments.
1.3.9	Contingency Operations Document	Contractor-Determined Format	30 calendar days before end of base contract period	NLT 10 days after receipt of Government comments. Updates due once per contract option period
1.3.9.1	Execution and Effects Review Documents	Government-Determined Format	Upon Government request	5 days after receipt of Government comments
1.3.10.1	Configuration Management Plan	Contractor-Determined Format	NLT 30 calendar days after contract award. Update as required by the Government	NLT 10 days after receipt of Government comments
1.3.10.2	Updated Configuration Item Listings	Contractor Determined Format	NLT 60 calendar days prior to end of FY	NLT 10 calendar days after receipt of Government comments
1.3.10.3.1	CR Evaluation Reports	Contractor-Determined Format	N/A	NLT 20 calendar days after receiving change request
1.3.10.3.3	Status Accounting Reports	Contractor Determined Format	Monthly, with the MSR	Within 5 days after receipt of Government comments
1.3.10.3.4	Audit Reports	Contractor Determined Format	Keyed to major releases as determined by the Government	Within 10 days after receipt of Government comments
1.3.10.3.5	Process Improvement Recommendations	Contractor Determined Format	NLT 120 days after contract award, and every 120 days thereafter	Within 10 days after receipt of Government comments
4.2.1	Trip Report	Government-Determined Format	N/A	5 days after completion of travel

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Submit IMS	1.3.1.4	Schedule includes major milestones and their completion dates; sub-schedules for each major milestone (including closure criteria). Schedule addresses design, development, testing, training, and deployment for each applicable task area. Schedule and updates delivered in accordance with deliverable schedule.
Prepare and provide CSR	1.3.1.5	95% of all identified issues worked to completion and closed, unless the contractor obtains PM approval for incompleteness or lack of closure for specific issues.
Provide AMP Software release	1.3.4.3	No more than one (1) late delivery and no more than five (5) days late. No more than two (2) sets of revisions/corrections with all revisions/corrections accomplished within five (5) days. No major re-work 100% of the time.

2.1 Reserved.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). GFE will be used to support the AMP tasks to be performed at the contractor's site. USTRANSCOM will maintain all GFE. The USTRANSCOM objective is to accomplish required maintenance within 48 hours of receipt at USTRANSCOM and to return the GFE to the contractor via overnight delivery. The Government will provide the equipment and leased line to support the Secure Internet Protocol Router Network (SIPRNET) connection in support of the secure network requirement described in Paragraph 5.17 of this PWS. The Government shall provide the latest version of the following documents to the contractor:

- DOD 5200.1-R, Information Security Program
- DODI 8510.01, DOD Certification and Accreditation Process, November 28, 2007
- DOD Directive 8500.01E, Information Assurance
- DOD Instruction 8500.2, Information Assurance Implementation
- DIACAP Implementation Plan - USTRANSCOM Template
- System Classification Guide
- System Security Policy
- Risk Management Review Report
- MIL-STD 3022, Documentation of Verification, Validation, and Accreditation (VV&A) For Models And Simulations, 28 Jan 2008
- USTRANSCOM Pamphlet 33-2, Communication Guide

GOVERNMENT FURNISHED EQUIPMENT (GFE) LISTING

Serial Number	Part Number	Model Number	Model Desc	Est Cost
23579681	61000034D2	CPU	Gateway P4 1400	\$1,284
031C16C7	61000033J9	SUN	18.2 GB Hard Drive	149
045H2C5A	610000341P	SUN	ULTRA 60	749
219V00AE	610000365L	SERVER	SUN FIRE 880	1180
450G4023	61000035ZH	TAPE DRIVE	SUN External	180
602F0284	610000082X	SUN	ULTRA 1	1460
628G3304	6100003250	SUN	Tape Drive	180
7WF16B1		SERVER	DELL 6850 POWEREDGE	9093

			SERVER	
9429FR3687	61000033YI	SUN	Monitor	455
9502FR4029	61000008II	SUN	Monitor	455
DZKWN41		CPU	Dell Precision 650 (Strongbad)	820
TW22530559		MONITOR	HP 17" Flat Panel	320
27645944	610000367D	CPU	Gateway E6000 P4 2400	1600
201003317	61000035T4	MONITOR	NEC Flat Panel 18"	360
FBKYRF1		WORKSTATION	Dell Precision 690 (Fabfour)	720
MUL8006A0045134	61000037MA	MONITOR	Gateway (Wolverine)	320
85SVT91		WORKSTATION	Dell Precision 670 (Wolverine)	688
24682585	610000367D	PC	Gateway P4 1400	1284
MCOC95364663477C1C5L		MONITOR	Dell 20" LCD (Fabfour)	380
962R6B1		Disk Array	Dell/EMC ax150 RAID Array	6000
MUL8006A0045628?	61000037ML	MONITOR	Gateway (Strongbad)	
C8KQ6B1	26639930989	SERVER	DELL 6850 POWEREDGE SERVER	2099

Total Estimated Cost \$29,456

3.1.1 Reserved.

3.1.2 Reserved.

3.2 Reserved.

4.0 GENERAL INFORMATION.

4.1 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB. However, to accommodate the contractor's on-site support personnel, the Government will provide controlled working space, phone, computer, fax, and connections to the NIPRNET or SIPRNET, as required at no cost to the contractor for one FTE.

4.2 Travel. Performance under this PWS shall require contractor travel within and outside the Continental United States (OCONUS). Appendix A lists anticipated travel requirements. The Government shall reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). All contractor travel shall be coordinated with and validated by the PM prior to incurring any travel expenses. Travel requests shall be submitted in writing at least five (5) business days in advance from the travel commencement date shall consist of:

- Title, Purpose/Objective, Expected Outcome
- Date, Time (window), and Location
- Proposed Itinerary
- Proposed Meeting/Activities Agenda
- Number of Contractor Participants
- Desired Government Participants
- Requested Government Support
- Estimated Costs

The contractor shall identify personnel who will be traveling in sufficient time to obtain the lowest possible rates for airfare, rental car and lodging. Contractor invoices (along with associated receipts) shall support all travel reimbursement requests. The Government will not reimburse local travel and related expenses to the contractor for

daily travel to or from the place of performance stipulated in this PWS. Contractors shall not use General Services Administration city pair contracts.

ANTICIPATED CONTRACTOR TRAVEL

For estimating purposes, the Government anticipates the following trips (estimates include travel days) during the period of performance:

Origin	Destination	Duration (days)	Trip Description	No of People	Trips
Contractor location, if applicable	Scott, AFB	1	Kickoff	3	1
Contractor location, if applicable	Wash DC	2	UGM	4	1
St. Louis, MO	Wash DC	2	UGM	1	1
Contractor location, if applicable	Scott, AFB	1	IPR	3	2
St. Louis, MO	Contractor location, if applicable	2	Design Meeting	2	2
Wash DC	Contractor location, if applicable	2	Design Meeting	1	1

4.2.1 Trip Report. The contractor shall prepare and submit a trip report, including meeting minutes if applicable, following the conclusion of travel to the PM. Additionally, the contractor shall attach a copy of the trip report and minutes to the monthly status report. The report shall include the purpose, list of travelers' names, itinerary, agenda (if applicable), discussion (to include trip objective, problems encountered, findings, issues and action items, and future commitments made.

Deliverable: Trip Report

4.3 Hours of Operation. Normal duty hours are between 0730 and 1630, Monday through Friday, with the exception of Federal holidays. If on-site contractor personnel deem it necessary to work outside normal duty hours, it must be coordinated with the COR. The following will be observed as Federal holidays: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, and Christmas Day. Note: Any of the above holidays falling on a Saturday shall be observed on the preceding Friday. Holidays falling on a Sunday shall be observed on the following Monday.

4.4 Other Direct Costs. The Government will reimburse allowable other direct costs (ODCs) incurred in the performance of this task order. ODCs may include, but are not limited to, software, group teleconferencing fees, and membership/conference fees. All ODCs shall be coordinated with and approved by the primary or alternate COR prior to incurring any expenses. ODC requests shall be submitted in writing to the COR at least five (5) business days in advance from incurring any expenses and contain estimated costs. The contractor may be required to submit at least two quotes for high dollar value items. Contractor invoices (along with associated receipts) shall support all ODC reimbursement requests.

4.5 Period of Performance. The period of performance for this task order is 1 Oct 2009 to 30 Sep 2010.

4.6 Reserved.

4.7 Reserved.

4.8 Standards. The AMP Federation is part of the JDDA-E. The JDDA-E consists of Conceptual, Prescriptive, and Transition Architectures, referred to collectively as the Enterprise Architecture (EA). The JDDA-E embodies the Distribution Process Owner's (USTRANSCOM) Corporate Services Vision (CSV) and Service Oriented Architecture (SOA) concepts. Current governance, policy, architecture, standards, and specification documentation

can be obtained by coordinating with the AMP PMO, who, in turn, will contact USTRANSCOM J6-A. Other standards and specifications that are a part of the JDDA-E Prescriptive Architecture are being defined and will be made available after they are delivered. Until such time as the Prescriptive Architecture is released, existing federal, DOD, and USTRANSCOM guidelines shall pertain. The AMP contractor shall abide by the requirements of the DOD Information Technology Standards Registry (DISR) and the DOD Net-Centric environment as reflected in the JDDA-E. The contractor shall show traceability to the DTS Enterprise Architecture (EA) content to include identifying anticipated standards, new Information Exchange Requirements (IER), and system interfaces. This traceability shall be reflected in DODAF products for which the contractor shall be responsible to develop or update.

DOD is implementing a Service-Oriented Architecture (SOA) environment to enhance net-centricity and data sharing within the Global Information Grid (GIG). As USTRANSCOM is in SOA discovery mode, the contractor shall consider SOA standards and protocols documented in the DISR and the Net-Centric Operations Warfare Reference Model (NCOW RM) during system development and enhancement. A SOA is a design style for building flexible, adaptable distributed-computing environments for the DOD. Service-oriented design is fundamentally about sharing and reusing functionality across diverse applications. Service-oriented design focuses on the following best practices:

- Make application and system functionality as accessible and reusable services.
- Expose service functionality through programmatic interfaces.
- Maintain an abstraction layer between service interfaces and service implementations.
- Describe service interfaces using standard metadata.
- Advertise and discover services using standard service registries.
- Communicate with services using standard protocols.

USTRANSCOM's Data Management Strategy is documented in the Information Reference Model Manual which is the governing document for Enterprise Information Management within the Command. This document outlines program responsibility in support of the strategy. It mandates the creation and use of Standard Message Templates and Standard Reference Data (USTRANSCOM Reference Data Management - TRDM). The Enterprise Data Office (TC/J6-AD) will assist with the creation of the Standard Message Templates once validated through the Enterprise Requirements Management process. The AMP Contractor shall ensure AMP data is submitted and compliant with USTRANSCOM's Distribution Process Interface Exchange Data Model (DPIEDM), and that no data business rule from that model is violated in the system, to include the database and interfaces.

Software shall be developed in accordance with CMMI Level II.

APPENDIX A

NON-DISCLOSURE AGREEMENT FOR CONTRACTOR EMPLOYEES ON USTRANSCOM CONTRACTS

NOTE: This Non-Disclosure Agreement is a standard agreement designed for use by contractor (including sub-contractor) employees assigned to work on USTRANSCOM contracts. Its use is designed to protect non-public Government information from disclosure and prevent violations of federal statutes/regulations. The restrictions contained in this agreement also serve contractors by promoting compliant behavior that keeps contractors eligible to compete for Government contracts. In addition to the potential impact on future business opportunities, failure to abide by this agreement could result in administrative, civil, or criminal penalties specified by statute or regulation.

1. I, _____, currently an employee of _____, hereby agree to the terms and conditions set forth below.

2. I understand that I will have access to confidential business information (as defined by 18 USC 1905), contractor bid or proposal information (as defined by FAR 3.104-3), and/or source selection sensitive information (as defined by FAR 3.104-3) either for contract performance, as a result of working in a USTRANSCOM facility, or of working near USTRANSCOM personnel, contractors, visitors, etc. I fully understand that such information is sensitive and must be protected in accordance with 41 US Code Section 423 and 18 US Code Section 1905 and FAR Part 3. I also certify that I do not have any real or apparent conflicts of interest with respect to the information disclosed. If any potential conflicts of interest, real or otherwise, do present themselves, then I shall immediately disclose the pertinent information that may be a potential conflict to an agency ethics official who shall review the circumstances.

3. In the course of performing under contract/order # _____ or some other contract or sub-contract for USTRANSCOM, I agree to:

a) Use only for Government purpose any and all confidential business information, contractor bid or proposal information, and/or source selection sensitive information to which I am given access. I agree not to disclose "non-public information" by any means (in whole or in part, alone or in combination with other information, directly, indirectly, or derivatively) to any person except to a US Government official with a need to know or to a non-Government person (including, but not limited to, a person in my company, affiliated companies, sub-contractors, etc.) who has a need to know related to the immediate contract/order, has executed a valid form of this non-disclosure agreement, and receives prior clearance by the CO. All distribution of the documents will be controlled with the concurrence of the CO.

b) "Non-public information," as used herein includes trade secrets; confidential or proprietary business information (as defined for Government employees in 18 USC 1905); advance procurement information (future requirements, acquisition strategies, statements of work, budget/program/planning data, etc.); source selection information (proposal rankings, source selection plans, contractor bid or proposal information); information protected by the Privacy Act (social security numbers, home addresses, etc.); sensitive information protected from release under the Freedom of Information Act (pre-decisional deliberations, litigation materials, privileged material, etc.); and information that has not been released to the general public and has not been authorized for such release (as defined for Government employees in 5 CFR 2635.703).

c) Not use such information for any non-Governmental purposes, including, but not limited to, the preparation of bids or proposals, or the development or execution of other business or commercial ventures.

d) Store the information in such a manner as to prevent inadvertent disclosure or releases to individuals who have not been authorized access to it.

4. I understand that I must never make an unauthorized disclosure or use of confidential business information, contractor bid or proposal information, and/or source selection sensitive information unless:

a) The information has otherwise been made available without restriction to the Government, to a competing contractor or to the public.

b) The CO determines that such information is not subject to protection from release.

5. I agree that I shall not seek access to “non-public information” beyond what is required for the performance of the services I am contracted to perform. I agree that when I seek access to such information, attend meetings, or communicate with other parties about such information, I will identify myself as a contractor. Should I become aware of any improper or unintentional release or disclosure of “non-public information,” I will immediately report it to the CO in writing. I agree that I will return all forms (including copies or reproduction of original documents) of any “non-public information” provided to me by the Government for use in performing my duties to the control of the Government when my duties no longer require this information.

By signing below, I certify that I have read and understand the terms of this Non-Disclosure Agreement and voluntarily agree to be bound by its terms.

Signature of Employee

Date

Printed Employee Name

Government Contracting Officer’s Representative

Date

Contracting Officer

Date

ATTACHMENT 2

**HTC711-10-D-S002-
0001**

WIDE AREA WORKFLOW (WAWF)
ELECTRONIC INVOICING INSTRUCTIONS

IN ACCORDANCE WITH DFARS 252.232.7002, USE OF ELECTRONIC PAYMENT REQUESTS IS MANDATORY. USE OF WAWF WILL SPEED UP YOUR PAYMENT PROCESSING TIME AND ALLOW YOU TO MONITOR YOUR PAYMENT STATUS ONLINE. THERE ARE NO CHARGES OR FEES TO USE WAWF.

Requests for payments must be submitted electronically via the Internet through the Wide Area WorkFlow system at <https://wawf.eb.mil>.

Questions concerning payment should be directed to the Defense Finance Accounting Services (DFAS) Limestone at (800) 756-4571 or faxed to (866) 392-7971 or e-mailed to cco-af-vpis@dfas.mil. Please have your contract/order number and invoice number ready when contacting DFAS about payment status. You can also access payment information using the DFAS myInvoice web site at <https://myinvoice.csd.disa.mil/index.html>

THE FOLLOWING CODES WILL BE REQUIRED TO ROUTE YOUR COST VOUCHERS AND ADDITIONAL E-MAILS CORRECTLY THROUGH WAWF.

CONTRACT NUMBER:

DELIVERY ORDER NUMBER:

TYPE OF DOCUMENT:

CAGE CODE:

ISSUE BY DODAAC:

ADMIN DODAAC:

DCAA OFFICE:

SERVICE ACCEPTOR DODAAC:

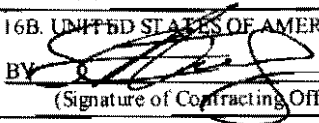
PAY OFFICE DODAAC:

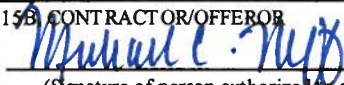
SEND MORE E-MAIL NOTIFICATIONS:

CONTRACT ADMINISTRATOR:

CONTRACTING OFFICER:

ADDITIONAL NOTIFICATION:

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. 01		3. EFFECTIVE DATE 07-Apr-2010		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (if applicable)	
6. ISSUED BY CODE HTC711 USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0001			
				X 10B. DATED (SEE ITEM 13) 01-Oct-2009			
CODE 306L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended Offer 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 _____ copies 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 ACKNOWLEDGMENT 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) See Schedule							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
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.							
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).							
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 10 U.S.C. Chapter 137							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcperejm101203 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to correct the Element of Expense Investment Code (EEIC) in the lines of accounting on CLIN 0001AD. The total amount of \$233,727.00 was deobligated from CLIN 0001AD and obligated to CLIN 0001AE. All other terms and conditions remain unchanged. The point of contact for this modification is Mr. Joe Pereyra, 618-229-4973.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SCOTT B. AMOS / CONTRACTING OFFICER TEL: 618-229-4925 EMAIL: scott.amos@ustrancom.mil			
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)		16C. DATE SIGNED 12-Apr-2010	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE Z		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. 01		3. EFFECTIVE DATE 07-Apr-2010		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (If applicable)
6. ISSUED BY CODE HTC711 USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6				
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119					9A. AMENDMENT OF SOLICITATION NO.	
					9B. DATED (SEE ITEM 11)	
					X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0001	
					X 10B. DATED (SEE ITEM 13) 01-Oct-2009	
CODE 3U6L5		FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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) See Schedule						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
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.						
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).						
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 10 U.S.C. Chapter 137						
D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.						
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcperejm101203 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to correct the Element of Expense Investment Code (EEIC) in the lines of accounting on CLIN 0001AD. The total amount of \$233,727.00 was deobligated from CLIN 0001AD and obligated to CLIN 0001AE. All other terms and conditions remain unchanged. The point of contact for this modification is Mr. Joe Pereyra, 618-229-4973.						
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Neff Sr. Manager, Contract Relations				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SCOTT B. AMOS / CONTRACTING OFFICER TEL: 618-229-4925 EMAIL: scott.amos@ustrancom.mil		
15B. CONTRACT OR OFFEROR  (Signature of person authorized to sign)		15C. DATE SIGNED 4/13/2010		16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 12-Apr-2010

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION B - SUPPLIES OR SERVICES AND PRICES

SUBCLIN 0001AD

The contract type LH has been deleted.

The CLIN description has changed from Labor - SM/EE Integration DPO Capital to Reserved.

The CLIN extended description has changed from Labor, in accordance with Task Order Level PWS para 1.3.11.8 and 1.3.11.13, for the period of 1 Oct 09 - 30 Sep 10. to Reserved, this SubCLIN has been replaced by CLIN 0001AE..

The pricing detail quantity 233,727.00 has been deleted.

The unit price amount \$1.00 has been deleted.

The unit of issue Lot has been deleted.

The total cost of this line item has decreased by \$233,727.00 from \$233,727.00 to UNDEFINED.

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AD	Reserved				\$0.00

Reserved, this SubCLIN has been replaced by CLIN 0001AE.

FOB: Destination

PURCHASE REQUEST NUMBER: F3ST959098A001

SIGNAL CODE: A

TOT ESTIMATED PRICE

CEILING PRICE

ACRN AD

CIN: F3ST959098A0010000AD

SUBCLIN 0001AE is added as follows:

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AE	Labor - SM/EE Integration DPO Capital LH Labor, in accordance with each individual Task Order Level Performance Work Statement (PWS), for the period of 1 Oct 09 - 30 Sep 10. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950071A003 SIGNAL CODE: A	233,727	Lot	\$1.00	\$233,727.00
TOT ESTIMATED PRICE					\$233,727.00
CEILING PRICE					\$0.00
ACRN AE CIN: F3ST950071A0030000AA					\$233,727.00

SECTION E - INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for SUBCLIN 0001AE:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule Item has been deleted from SUBCLIN 0001AA:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item has been added to SUBCLIN 0001AA:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 508 SCOTT DRIVE SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule Item has been deleted from SUBCLIN 0001AD:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC J6 DSPMO - F3ST95 RUIZ, RUBEN 508 SCOTT DR RM 333 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

SUBCLIN 0001AE:

Funding on SUBCLIN 0001AE is initiated as follows:

ACRN: AE

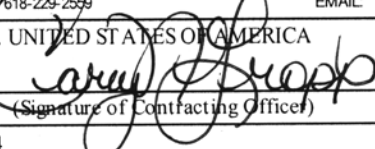
CIN: F3ST950071A0030000AA

Acctng Data: 97X4930.FD50 6F9 70AB 249010 G62X00 44510 000000 667100 F67100 ESP:9D

Increase: \$233,727.00

Total: \$233,727.00

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 02		3. EFFECTIVE DATE 30-Apr-2010		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE HTC711 USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0001			
				X 10B. DATED (SEE ITEM 13) 01-Oct-2009			
CODE 3U6L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.							
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.							
X 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).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcperejm101203 A. The purpose of this modification is to make the following administrative change to the contract: Change the Payment Office from F67100 (Limestone) to F87700 (Limestone). This will allow electronic interfacing to the new Defense Enterprise Accounting Management System (DEAMS) financial system. If this contract or delivery order is paid through Wide Area Workflow, invoices should reflect the new pay office DODAAC (F87700). Any other addresses previously identified as 'invoice submission address' are not changed at this time. B. All other terms and conditions remain unchanged.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) G. TODD SPENCER / CONTRACTING OFFICER TEL: 618-229-2559 EMAIL: todd.spencer@ustrancom.mil			
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)		16C. DATE SIGNED 30-Apr-2010	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The 'Payment will be made by' organization has changed from

DFAS-LIMESTONE - F67100

ATTN: DFAS-LI-JAQBDD

27 ARKANSAS RD

LIMESTONE ME 04751-6216

to

DFAS-LIMESTONE DEAMS - F87700



ACCTG DISB STA NR 387700

DFAS DEAMS

27 ARKANSAS RD

LIMESTONE ME 04751-6216

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1 CONTRACT ID CODE Z	PAGE OF PAGES 1 4
2. AMENDMENT/MODIFICATION NO. 03	3. EFFECTIVE DATE 29-Jul-2010	4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE	5. PROJECT NO. (If applicable)		
6. ISSUED BY USTRANSCOM-AQ - HTC711 506 SCOTT DR SCOTT AFB IL 62225-5367	CODE HTC711	7. ADMINISTERED BY (If other than item 6) See Item 6			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119			9A. AMENDMENT OF SOLICITATION NO.		
			9B. DATED (SEE ITEM 11)		
			<input checked="" type="checkbox"/> 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0001		
			<input checked="" type="checkbox"/> 10B. DATED (SEE ITEM 13) 01-Oct-2009		
CODE 3U6L5		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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) See Schedule					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
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.					
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: 10 U.S.C. Chapter 137					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: lcperejmf01960 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to: 1) Incorporate the revised Task Order Performance Work Statement (PWS) dated 22 Jun 10 and 2) Change the contractor's business legal name from BBN Technologies Corp. to Raytheon BBN Technologies Corp. IAW the Change-of-Name Agreement dated 29 Jul 10. The total amount of this contract is increased by \$180,571.09 from \$2,667,417.00 to \$2,847,988.09. All other terms and conditions remain unchanged. The point of contact for this modification is Mr. Joe Pereyra, 618-220-7109.					
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as hereto be changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Neff Sr. Manager, Contract Relations			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) SCOTT B. AMOS / CONTRACTING OFFICER TEL 618-228-4825 EMAIL scott.amos@ustrancom.mil		
15B. CONTRACTOR/OFFEROR Raytheon BBN Technologies Corp.  (Signature of person authorized to sign)		15C. DATE SIGNED 29 July 2010		16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	
				16C. DATE SIGNED 29-Jul-2010	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$180,571.09 from \$2,667,417.00 to \$2,847,988.09.

The contractor organization has changed from

BBN TECHNOLOGIES CORP.

EILEEN NAYLOR

10 MOULTON ST

CAMBRIDGE MA 02138-1119

to

RAYTHEON BBN TECHNOLOGIES CORP.

EILEEN NAYLOR

10 MOULTON ST

CAMBRIDGE MA 02138-1119

The remittance organization has changed from

BBN TECHNOLOGIES CORP.

EILEEN NAYLOR

10 MOULTON ST

CAMBRIDGE MA 02138-1119

to

RAYTHEON BBN TECHNOLOGIES CORP.

EILEEN NAYLOR

10 MOULTON ST

CAMBRIDGE MA 02138-1119

SECTION B - SUPPLIES OR SERVICES AND PRICES

SUBCLIN 0001AF is added as follows:

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AF	Labor, TWCF OPS LH Labor, in accordance with Task Order Level PWS para 1.3.6.1.2.1 - 1.3.6.1.2.32, for the period of 20 Jul 10 - 30 Sep 10. FOB: Destination PURCHASE REQUEST NUMBER: W81GYE01829100 SIGNAL CODE: A	180,571.09	Lot	\$1.00	\$180,571.09
TOT ESTIMATED PRICE					\$180,571.09
CEILING PRICE					\$0.00
ACRN AF CIN: W81GYE018291000000AA					\$180,571.09

SECTION E - INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for SUBCLIN 0001AF:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for SUBCLIN 0001AA has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 508 SCOTT DRIVE SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$180,571.09 from \$2,667,417.00 to \$2,847,988.09.

SUBCLIN 0001AF:

Funding on SUBCLIN 0001AF is initiated as follows:

ACRN: AF

CIN: W81GYE018291000000AA

Acctng Data: 97 X 4930 FD30 0 E3 35 9900 TTTM0000000 B100 2515 MIPR0JDAT99000 389900

Increase: \$180,571.09

Total: \$180,571.09

(End of Summary of Changes)

ATTACHMENT 1

**PERFORMANCE WORK STATEMENT
FOR
TASK ORDER 0001, MODIFICATION 03
ANALYSIS OF MOBILITY PLATFORM (AMP)**

22 June 2010

1.0 DESCRIPTION OF SERVICES

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses.

1.2 Scope. This Performance Work Statement (PWS) contains requirements in support of the AMP Federation of models. All provisions of the basic contract apply. The paragraph numbers of the below sequentially follow the numbering scheme of the Contract Level PWS.

1.3 Specific Tasks. The specific task areas with associated subtasks to be performed are identified as: Contract Management, Studies Support, Requirements Definition, Design and Development, System Interface Support, Maintenance, System Administration, Information Assurance, Contingency Operations, Configuration Management, and Enhancements.

1.3.1 Task Area 1 – Contract Management. This task area shall encompass overall contract management to include administrative, clerical, documentation, and related functions. The contractor shall designate an individual from the contractor's resources to be the focal point for all contract management communications with USTRANSCOM, and to be responsible for ensuring successful accomplishment of PWS tasks. Point of contact (POC) information, to include name, title, phone number, and email address, are to be provided to the Contracting Officer at the Post-Award Conference.

1.3.1.1 Task Area 1 Subtask 1 - Task Order Management Plan (TOMP). The contractor shall prepare a TOMP, encompassing all task orders, describing tasks, dependencies, management and technical approach, organizational resources, and management controls to be employed to meet cost, performance and schedule requirements throughout contract execution. The TOMP shall include the contractor's approach to plan for, identify, monitor, and control risk in all phases of this effort. The contractor shall update the TOMP after receipt of each task order.

Deliverable: TOMP

1.3.1.2 Task Area 1 Subtask 2 - Monthly Status Reports (MSR). The contractor shall submit an MSR summarizing overall status, progress, and recommendations and shall include details and results of the work performed during the reporting period, identifying any issues, problem areas, and items that require Government action; work planned for the next month; dates and locations of IPRs conducted; hours worked by contractor and sub-contractor by labor category; the task(s) performed and the hours performed on each task(s) by labor category; trips conducted and meetings attended; cost, schedule and performance variance that includes a description of how the variances were determined; potential risks for future progress; a comparison of the status achieved to planned goals and resources expended; a list of deliverables provided for each task area; status of documentation; and key personnel (e.g., project manager, lead developer, lead engineer) changes. Estimated and actual travel costs shall be reported by task order number, contractor name, trip location and purpose, and dates of travel. The MSR shall include copies of invoices for all travel performed during the reporting period.

Deliverable: MSR

1.3.1.3 Task Area 1 Subtask 3 - In-Process Reviews (IPRs). The contractor shall conduct and/or host IPRs on a quarterly basis or as the PM requires. The PM will determine dates and whether IPRs will be held at the contractor's site, at USTRANSCOM, via video teleconference, web-cast, or conference call. IPRs shall summarize status, progress, new capability requirements and program schedule to include new requirements, risk, and remediation plan in any task area. The contractor shall prepare presentation materials and provide to the PM in

accordance with the schedule in the table in Paragraph 1.4. At a minimum, the contractor shall include in the minutes a record of activity, decisions made, date, location and attendees.

Deliverable: Presentation Materials, IPR Meeting Minutes and Slides

1.3.1.4 Task Area 1 Subtask 4 - Integrated Management Schedule (IMS). The contractor shall develop and deliver to the PM an IMS that provides a schedule for all major milestones as currently tasked to the contractor. It shall also include anticipated future work to support schedule and workload de-confliction. The IMS shall include a high-level Master Schedule which lists the major milestones and completion dates associated with each. The IMS shall also include sub-schedules for each major milestone that lists closure criteria (specific actions that must be taken prior to reaching the milestone) and scheduled completion dates for each closure criterion. The schedule shall address design, development, test, and deployment for approved new system capabilities, and shall show the critical path. The contractor shall keep this schedule current, making schedule changes as necessary after coordinating these changes with the PM.

Deliverable: IMS (delivered with the MSR, or when circumstances necessitate a change to the schedule, whichever occurs first.)

1.3.1.5 Task Area 1 Subtask 5 - Contract Summary Report (CSR). The contractor shall prepare and provide to the COR a CSR to include a summary of work performed, a complete bibliography, where data was gathered, and from whom. The report shall identify processes used, lessons learned, actions of note, any identified gaps, and highlight any existing areas of concern.

Deliverable: CSR

1.3.1.6 Task Area 1 Subtask 6 - Variance Report. The contractor shall notify the PM and the COR when any labor cost varies more than 5 percent from the baseline or latest PM-accepted change to the baseline. The contractor shall schedule a meeting with the PM and the COR when any labor cost varies more than 10 percent from the baseline or latest PM-accepted change to the baseline.

Deliverable: Variance Report

1.3.1.7 Task Area 1 Subtask 7 - Demonstration Support. The contractor shall conduct and support quarterly technical presentations or demonstrations to USTRANSCOM, other DOD commands, and other AMP users as requested by the PM. Presentations and demonstrations shall be conducted at various locations specified by the PM. This support may include but is not limited to scenario and system set-up and other subject matter expert support.

1.3.1.8 Task Area 1 Subtask 8 – Teleconferences. The contractor shall conduct weekly telephone conferences with the PM to provide current status of all tasks.

1.3.2 Task Area 2 - Studies Support. The contractor shall support planning and execution of analytical studies such as the Defense Program Guidance's Mobility Capabilities and Requirements Studies and Quadrennial Defense Review. This may require software modifications, analysis of study requirements and products, and on-site support. As appropriate to the specific study, the contractor shall work with MIDAS, ELIST, and other model development contractors to define upgrades and enhancements to software of AMP, MIDAS, ELIST, and other models, and coordinate release and testing schedules. The contractor shall make necessary modifications to the AMP Federate and shall enhance the graphical user interfaces (GUI) and/or charts as directed by the COR or the PM. The contractor shall define an approach to integrate the Federation, coordinate integration for the Federation, conduct integration and testing, and perform trouble-shooting to repair or modify software problems identified during model execution.

1.3.3 Task Area 3 - Requirements Definition. The Functional Manager will provide a prioritized list of functional requirements to the PM, who then will provide these requirements to the contractor. The contractor shall coordinate and integrate the technical expertise required to construct the system and associated databases (if applicable), and support field testing in a limited operational environment. To implement Federation-level requirements, the

contractor shall coordinate with developers of other Federation systems as described in the Government-provided Memoranda of Agreement between AMP and these other systems.

1.3.4 Task Area 4 –Design and Development. The contractor shall design, develop, and test the AMP infrastructure and GUI to support Federation integration efforts. The design and development will support the future addition of, and changes to, existing federates.

The contractor shall develop and test new system capabilities using commercial best practices appropriate to the AMP functional requirements. For System Development, the contractor shall:

- Design, code, test, document, and support full system integration of software and software releases (including software changes), assessments and prototypes supporting application development.
- Propose release content and schedules based upon the known Government requirements and priorities.
- Provide necessary models and simulations to support the verification and validation.
- Provide software size, cost, and schedule estimates, and include justification and confidence level behind those estimates.
- Deliver any developed corporate applications software artifacts to the PMO.

1.3.4.1 Task Area 4 Subtask 1 – Software Development. The contractor shall employ software engineering commercial best practices in performing software development and support. The contractor shall designate a lead engineer for the software engineering and technical interactions with USTRANSCOM. The contractor shall be responsible for providing design, development, test and integration, configuration management (CM), quality assurance (QA), and documentation for all AMP software. The contractor shall provide a Software Requirements Specification (SRS) that describes the user's functional requirements in detail and in a form that will support design and development of software to satisfy these requirements. The contractor also shall provide a Database Design Description or Data Structure Design Description, if applicable. Prior to release of the software to the user test environment, the contractor will deliver a Software Version Description Document (VDD) following the configuration management procedures. USTRANSCOM/TCJ6-PE shall review and approve design documentation prior to contractor implementation. The contractor shall maintain a software problem database to document and track the progress of software fixes.

Deliverables: Database Design Description or Data Structure Design Description (if applicable); Software Requirements Specification, Software VDD.

1.3.4.2 Task Area 4 Subtask 2 – Software and System Testing. The contractor shall support Government Witness Testing and Government User Acceptance Testing of the software that ensures the software is valid and requirements are met. The contractor shall not implement changes to the maintained software until the Government has completed acceptance testing and the Government has accepted the change as valid. The contractor shall perform the following testing-related activities:

- Perform system, regression, and security testing.
- Perform functionality and/or integration test.
- Provide data management evaluation and provide System Administration (SA) support evaluation to assess various automated information system testing components and configurations.
- Document test procedures and test results.
- Maintain test batch items in Configuration Management Library.

Deliverables: System Test Procedures, System Test Descriptions, System Test Plans, System Test Reports, Data Management and SA Support Evaluations

1.3.4.3 Task Area 4 Subtask 3 – AMP Software Releases. The contractor shall provide a minimum of one major, baselined AMP release per year, along with intervening mission-critical patches and minor releases (minor releases not to exceed 12 per year) occurring between major releases. The contractor shall develop the necessary software release documentation and maintain it in a format acceptable to the Government. The contractor shall update the User's Manual to provide USTRANSCOM functional personnel appropriate guidance for system operation.

The contractor shall perform pertinent demonstrations at AMP IPRs to support the major release deliveries and at AMP User Conferences, and provide software releases on compact or digital video discs (CDs or DVDs). The contractor also shall deliver software source code with each release. The contractor shall assist the Government in achieving software acceptance through the USTRANSCOM security certification and accreditation process by accomplishing tasks described in Paragraph 1.3.8.3.

Deliverables: Software release (CD/DVD), User's Manual (update; include user security features), software source code, computer software release documentation, technical data.

1.3.5 Task Area 5 – System Interface Support. The contractor shall support the Government in interface support for the system as indicated in the following subtasks.

1.3.5.1 Task Area 5 Subtask 1 – System Interface Maintenance. The contractor shall provide system interface maintenance to include those changes required to correct performance of data exchange functions described in current system or software documentation. The contractor shall support the Government in initiating system interface development efforts to correct problems according to the priority established by the PM.

1.3.5.2 Task Area 5 Subtask 2 – System Interface Development and Modification. The contractor shall support the Government in engineering and modifying existing system interfaces to meet current and projected data exchange requirements. Interfaces may be required between systems of other Government agencies or commercial systems. The contractor shall develop or update the Interface Requirement Specifications (IRS) and the IRDD, as required. When directed by the PM, the contractor shall analyze changes to system interfaces to include (but not be limited to) requirements analysis, clarification of the requirement with the originator, recommendations regarding feasibility and cost effectiveness, what computer resources and man-hours the project shall require, projected delivery date, and the consequences of the proposed change. The contractor shall support the Government in initiating system interface engineering and modification efforts to implement Baseline Change Requests (BCRs) according to the priority established by the CMP and Configuration Control Board (CCB). The contractor shall ensure that all interface engineering and modification efforts comply with DOD Directive 8320.2, Data Sharing in a Net-Centric DOD, DOD Net-Centric Data Strategy, and standards set forth in the USTRANSCOM DTS EA. (Note: An Interface Control Document (ICD) or equivalent document may substitute for the IRS and IRDD, if approved by the PM.)

Deliverables: IRS, IRDD

1.3.6 Task Area 6 – Maintenance.

1.3.6.1 Task Area 6 Subtask 1 – Software Maintenance.

1.3.6.1.1 AMP Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP.

1.3.6.1.2 APOD Model (AMP-PAT) Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP.

1.3.6.1.2.1 “Unloadable” Railcars Cause Cargo Movement Failure. The critic erroneously allows the user to set up a situation where railcars cannot be loaded or unloaded.

1.3.6.1.2.2 Twenty-Foot Equivalent Unit (TEU) Calculation Used in Seaport Throughput Tool (STT) Staging Capabilities. The formula for calculating the number of TEUs in the staging area of STT is in error. Currently, it is taking the number of measurement tons (Mton) and dividing it by 40; it should be dividing it by 32 to get the correct number of TEUs. (An Mton is 40 cubic feet and a TEU is 1280 cubic feet so there are 32 Mtons in a TEU.) This issue can be observed by:

- a. Going to the Staging Capabilities tab of STT
- b. Looking at the Container columns of this tab

c. Dividing the number in the Mton column by 40 and comparing the number in the TEU column.

1.3.6.1.2.3 STT Improperly Labeling the Number of Usable Ships/Hatches. The STT displayed data for the Berth Capability of “Breakbulk Ships” (that can be processed at a berth) is actually calculated and displayed as the number of ship hatch positions that can be processed. The Seaport Simulation Tool (SST) column header (title, label) should be changed to indicate that the displayed numbers are the calculated “Number of Hatches” that can be accessed at a berth.

1.3.6.1.2.4 Rail Interchange Yard Capacity Definition. The label of Rail Interchange Yard capacity is incorrect; correct the label/definition of interchange yard capacity to match the displayed data.

1.3.6.1.2.5 Empty Rail Car Concept of Operations (CONOPS). The software does not properly identify and manage empty (or unloadable) railcars, which pile up in the port and prevent future deliveries. Apparently, the "recycling" capability of SST for POE scenarios is non-operational.

1.3.1.2.6 Theater Road/Rail Percentage. The simulation executes mode switching incorrectly because code fails to specify 100% shipment by rail to guarantee rail movement.

1.3.6.1.2.7 SST cycle stream cycle time. SST cycle stream cycle time not operating properly. For a scenario with a cycle stream of three or less days it works properly. However, scenarios with cycle streams of more than three days fail, in that the ship never returns after the first voyage departure.

1.3.6.1.2.8 SST Animation Summary Statistics Arrival Total. The summary statistics panel in the SST Animation always shows zero for total arrivals. The spreadsheet produced at the end of the run has the correct number.

1.3.6.1.2.9 Too Many Cranes Working Ship. When loading or unloading a ship there is often too many cranes simultaneously working a single ship. Berth cranes are abiding by the “Seaport Planning Factors. Crane Working Space” planning factor, but ship cranes does not appear to recognize that restriction. Correct the logic such that crane working space restriction applies to the holds being worked rather than the location of the crane.

1.3.6.1.2.10 UTC Enabler Crash in Seaport Cases. Clicking on the Capability grid on the UTC Enabler form in a seaport case will cause an unhandled exception.

1.3.6.1.2.11 Helicopter Enabler Critic. The software does not properly check for Helicopter Enablers. Correct the Critic to check the seaport terminal data (Aviation Maintenance, Tugs, Fuel Trucks, and Pilots) that permits helicopter operations.

1.3.6.1.2.12 Voyage Steaming Time Statistic. The Voyage Steaming Time statistic should not include transit times incurred after berth assignment.

1.3.6.1.2.13 Seaport Simulation Tool (SST) Runtime Statistics Issues. SST Runtime Statistic charts are not consistent:

- a. The Ship Step Statistics by Hour chart was incorrectly coded; it does not capture information as other statistic charts. For example, this chart lacks a legend with checkboxes.
- b. The Utilization Step Statistics for the Cargo Staging Area and Helicopter Assembly Area are incorrect; they fail to allow filtering by area.
- c. The panning tool (the hand) in the Berth Utilization Chart only works at the bottom of the chart. It should work anywhere in the chart.

1.3.6.1.2.14 Sending Items Too Heavy to Lift On-Lift Off (LOLO)-Only Rail Spur. A simulation run erroneously stops because the software fails to properly send cargo to rail spurs where cargo can be processed.

1.3.6.1.2.15 Ship Berthing. The software fails to consider overhang, straight stern ramp, and stern/bow-first methods when modeling ship berthing. The model fails to properly move or re-position ships at a berth if needed to gain access to all holds or ramps.

1.3.6.1.2.16 Defaults Button On Seaport Planning Factors Does Nothing. The Defaults Button on the Seaport Planning Factors form does not appear to be working.

1.3.6.1.2.17 Ferries. The software incorrectly or inaccurately calculates the following ferry operation factors:

- a. Small ships (ferries) berthing times.
- b. RORO cargo arriving with drivers (i.e., Ferries and Watercraft)
- c. Cargo lash-down processes where vehicles are not lashed down on smaller vessels like ferries or watercraft.
- d. Passenger counts on ship manifests, onload/offload rates, and processing requirements for ferries and watercraft.

1.3.6.1.2.18 Airport Simulation Tool (AST) / SST Not Handling Onward Mode X Properly. Properly model onward mode X movements of containers and breakbulk.

- a. SST is not closing out cargo items with an onward mode of X.
- b. AST is not documenting cargo with an onward mode of X.

1.3.6.1.2.19 Cranes With Access to More than One Berth Group. The model incorrectly models crane access to berths.

- a. The model incorrectly assigns Berth Cranes as a property of the BerthGroup. They should be allocated to a CraneTrack in a specified order.
- b. Crane tracks imported from the Port and Installation Database (PIDB) are erroneously showing the cranes' berth access.

1.3.6.1.2.20 Chart Buttons Inoperable on Berth Utilization Chart. The chart buttons (export to Clipboard or Excel, etc) result in an error if used on the Berth Utilization chart. Make these functional or disable them.

1.3.6.1.2.21 Order of Berth Groups. After a user inputs Berth Groups in a specific order and navigates away from that screen, the order of those berth groups changes when the user returns to the Berth Group screen. The request for a change here is in two parts. One is to keep the berth groups in alphabetical order and the second is to have the Berth Groups collapsed and not showing the berths when you first open the wizard. This will allow the user to more quickly choose which berth group he/she is interested in before expanding to look at the berths.

1.3.6.1.2.22 Change Display/Labeling of Charts/Graphs for Manifesting/Completion Info. The graphed data in the charts/graphs does not accurately display the manifesting information for cargo processing. That is, it seems that for each piece of cargo, the addition of the "processing time" data to the "arrival time" data should give the "process completion time". However, the graph does not accurately show this for the many pieces of data.

1.3.6.1.2.23 Pallet Load Types in Ship Manifests. The software does not correctly handle pallet types. Pallet configurations are excluded from ship manifests by the dropdown filter of available commodity configurations.

1.3.6.1.2.24 Alternative to Default Values. The software does not properly display default data values. It should show data values as blank and have the option of right-clicking on each data field to allow the default value (if desired) instead of filling the entire window with many data entries containing the simulator default values. Alternatively, if the user changes a defaulted value, the text should change to red or some other color to indicate that the user has changed it.

1.3.6.1.2.25 Container Handling Equipment (CHE) Retrieval of LOLO in Non-Crane Accessible Holds. The software incorrectly models ship LOLO cargo loading and unloading when CHE/Material Handling Equipment (MHE) is used.

1.3.6.1.2.26 Port and Installation Database (PIDB) Geographical Imaging Software (GIS) Data in SST Animation. The tool diagrams do not properly display and animate node locations. The diagrams do not accurately reflect the

[location \(latitudes and longitudes\) of the various port subsystems, even though the location is entered into the scenario.](#)

[1.3.6.1.2.27 Ship Data Requires Correction. AMP reference data requires updating.](#)

[1.3.6.1.2.28 Convoy Assembly Area Process Error. The model erroneously simulates convoy assembly functions at a seaport.](#)

[1.3.6.1.2.29 Large AMP External Voyage Stream Processing. Simulation operates much too slowly when processing Large AMP External Voyage streams.](#)

[1.3.6.1.2.30 Team Assembly Times in SST. Team assembly times for SST are missing.](#)

[1.3.6.1.2.31 Improperly Handled Cargo. Software incorrectly assigns Transfer Crane or MHE Crane usage.](#)

[1.3.6.1.2.32 SST Graphical Display. SST does not properly display terminal boundaries, berths, railroads, and roads.](#)

1.3.6.2 Task Area 6 Subtask 2 – System Maintenance.

1.3.6.2.1 AMP System Maintenance. The contractor shall provide on-going support to maintain normal system operations. Normal operation for the system is interpreted to mean that the system software and database or data structure (if applicable) is available except during periods of routine maintenance or when software is released. The PM, after coordinating with the functional users, will approve the timing of any non-emergency contractor downtime for hardware and software maintenance. The contractor shall restore the maintained software to normal operation whenever the contractor is informed such normal operation has been interrupted. Software maintenance also includes those changes that are required to correct the performance of functions described in existing system or software documentation. The contractor shall obtain approval from the Government PM for required operational system downtime.

1.3.6.2.2 APOD Model (AMP-PAT) System Maintenance. The contractor shall provide on-going support to maintain normal system operations. Normal operation for the system is interpreted to mean that the system software and database or data structure (if applicable) is available except during periods of routine maintenance or when software is released. The PM, after coordinating with the functional users, will approve the timing of any non-emergency contractor downtime for hardware and software maintenance. The contractor shall restore the maintained software to normal operation whenever the contractor is informed such normal operation has been interrupted. Software maintenance also includes those changes that are required to correct the performance of functions described in existing system or software documentation. The contractor shall obtain approval from the Government PM for required operational system downtime.

1.3.6.3 Task Area 6 Subtask 3 – Architecture Support. The contractor shall develop or update, as required, the system and technical architecture documents (System View (SV) and Technical View (TV)) in accordance with the latest version of the DOD Architecture Framework (DODAF). These views shall employ the same language and references as the Operational Views (OV) that the PMO will supply. The contractor shall provide architecture data and products to support the Execution and Effects Review process.

Deliverable: Architecture products in latest DODAF format

1.3.6.4 Task Area 6 Subtask 4 – Logical Data Model. During the creation of any structure (databases, interfaces, application screens, etc) which stores, manipulates, transmits, or receives data, the contractor shall include any new data elements in the system LDM, to include a complete representation of the data elements that comprise that data. The complete representation must contain, at a minimum, the data element name, its definition, relationship with other data elements, its data type, data length and a list of enumerated values, if applicable. The complete representation must also employ a published specification language such as IDEF1X or UML. The contractor shall submit a complete description of the selected specification language and a completed data model to the PMO for approval. The contractor shall coordinate with the PMO to consult with TCJ6-PE and/or TCJ6-AD for advice and

review the USTRANSCOM Prescriptive Information Reference Model Manual of the JDDA-E for additional guidance on database design/development and Standard Information Exchange implementation. The contractor shall participate in the M&S data standardization working group.

Deliverable: LDM

1.3.6.5 Task Area 6 Subtask 5 – Data Structure Support. The contractor shall provide data structure support. Support tasks include, but are not limited to, the following:

- Manage the production data schema and objects.
- Develop a Data Dictionary.
- Coordinate use of the test data schema and objects.
- Manage user accounts and user permissions.
- Monitor data structure growth and performance.
- Perform data structure log/trace file maintenance.
- Support data backup and recovery.
- Support data replication processes and procedures.
- Support the Execution and Effects Review (formerly Technical Assessment) activities and required updates.

The contractor shall provide data administration support for the system. The contractor shall make all data structure changes and modifications identified by the contractor or the Government according to the Configuration Management Plan (CMP.) The contractor shall make all changes necessary to program documentation as a result of data structure changes. The Government or the contractor will report problems or requirements on a Change Request (CR.) The contractor shall evaluate problems or requirements reported on the CR. This evaluation shall include, but not be limited to, requirements analysis, clarification of the problem or requirement with the originator, determining if correcting the problem is feasible and cost effective, what computer resources and man-hours the project shall require, its adherence to standards, and the consequences of the proposed change.

Deliverable: Data Dictionary

1.3.7 Task Area 7 – System Administration. The contractor shall provide on-site SA support to USTRANSCOM SAs for the system. This includes the following activities:

- Plan, schedule and accomplish installation of new or modified hardware and software, to include system patches, updates, and enhancements for the system servers. Troubleshoot AMP installation problems.
- Support installation, optimization, backup, recovery, modification and upgrade of system servers and software. Debug AMP software and test software releases.
- Monitor operational node performance and recommend possible improvements.
- Accomplish routine system maintenance functions such as rebooting servers, running backups and coordinating hardware repair/replacement.
- Troubleshoot and resolve system performance problems for system servers.
- Provide technical support for system reengineering efforts.
- Work with Government security and networking personnel on system-related issues.
- Support the Execution and Effects Review activities and required updates.

The contractor shall update the system administration manual to support the system that includes account administration; server installation, configuration, and administration; software installation; obtaining, generating, and updating reference files, shared drives, and web pages; troubleshooting and resolving operating system conflicts, maintaining logs, and creating reports, as required.

Deliverable: System Administration Manual

1.3.7.1 Task Area 7 Subtask 1 – AMP Federation Model User Training. The contractor shall provide AMP Federation Model training once per FY. Training shall be on the use of the AMP Federation modeling tools.

USTRANSCOM will coordinate and provide the training classroom (including hardware) if such training is required. Training shall be consistent with industry standards and result in the trainees' full understanding of the capabilities and the designed use of the associated software applications and Graphic User Interfaces.

1.3.8 Task Area 8 – Information Assurance (IA). The contractor shall establish an IA Program to implement and sustain appropriate IA management, operational, and technical controls and processes as required to ensure compliance with DOD and Chairman Joint Chiefs of Staff (CJCS) requirements, and Joint Task Force – Global Network Operations (JTF-GNO) taskings. The contractor shall submit for Government approval an overarching security plan that describes their strategy for implementation of IA and Industrial Security requirements throughout the life of the contract. The contractor shall ensure that information system security engineering (ISSE) is employed to develop or modify any IA component of the system architecture. Such modifications will be made in compliance with all analogous or interfacing IA component(s) of the GIG Architecture and will be designed to make maximum use of the DOD enterprise IA capabilities and services. The contractor shall also support periodic Government inspections and reviews to ensure compliance with DOD IA requirements throughout the contract performance period. Contractor IA Program capabilities shall include but not be limited to processes and procedures for vulnerability management, patch management, incident response, Information Condition (INFOCON), system and application security, configuration management, risk management, and situational awareness.

1.3.8.1 Task Area 8 Subtask 1 – IA Design. The contractor shall protect and prevent unauthorized access to Government sensitive unclassified and classified data and IT resources supporting the system. The contractor shall ensure appropriate IA controls are designed, developed and implemented to provide for non-repudiation, confidentiality, integrity, and availability of Government systems, applications, and data. The contractor shall leverage, to the maximum extent possible, automated tools to identify and remediate vulnerabilities or weaknesses in the system design and coding that could be exploited or that may result in system or data compromise. The contractor shall work with other DOD activities and vendors as required to implement these IA controls. The contractor shall perform vulnerability management activities as part of all AMP development and sustainment. The contractor shall coordinate with the PMO to document the installation of vendor security patches or support Government development of a Plan of Action & Milestones (POA&M) when patches cannot be applied. In coordination with the COR or PM, the contractor shall design, develop and implement secure AMP applications and configurations through applying applicable DOD security technical implementation guides (STIGs), checklists, vendor security guidance, industry best practices, and applicable vendor product security patches. The contractor shall ensure AMP applications are in compliance with DODI 8551.01p and leverage approved ports, protocols and services. An Information Assurance, Security Architecture and Engineering (IASAE)-qualified person shall participate in Government and contractor formal and informal design reviews to identify potential security weaknesses, deficiencies, and/or vulnerabilities in the design.

1.3.8.2 Task Area 8 Subtask 2 – Security Testing. The IASAE shall ensure appropriate security requirements are included as part of the AMP requirements traceability matrix and are evaluated as part of the Security Test and Evaluation (ST&E). Whenever possible the contractor shall support the ST&E in conjunction with scheduled system development and acceptance testing. As part of the contractor's change control process, the contractor shall ensure participation by the IASAE- or IA-qualified representative to evaluate the impact of each change on security. The contractor shall document the results of this evaluation. When directed by the COR or PM, the contractor also shall test vendor security patches for AMP production systems and applications to assess their impact on system functionality prior to their installation.

1.3.8.3 Task Area 8 Subtask 3 – DOD Information Assurance Certification and Accreditation Process. The contractor shall assume responsibility for management and update of existing system security documentation that were developed to facilitate AMP's security accreditation. The contractor shall perform security certification activities as required to maintain current system accreditation and support re-accreditation. The contractor shall support USTRANSCOM's migration to the DOD Enterprise Mission Assurance Support Service (eMASS) system for automated accomplishment of the certification and accreditation process. The contractor shall update eMASS as required and provide supporting IA documentation for upload as artifacts in eMASS.

As a minimum, the contractor shall ensure compliance with applicable provisions of DOD Directive (DODD) 8500.1, Information Assurance; DOD Instruction 8500.2, Information Assurance Implementation; DODD 8570.1, Information Assurance Training, Certification and Workforce Management; CJCS Manual 6510.01, Defense-in-

Depth: IA and Computer Network Defense (CND); DODI 8520.2, PKI and Public Key (PK) Enabling; DODI 8551.1, Ports, Protocols, and Services Management (PPSM); and DODI 8510.01 DIACAP guidance. AMP has been designated Mission Assurance Category (MAC) III classified for the purposes of applying IA controls.

The contractor shall develop and maintain the following documentation required to support DIACAP accreditation decisions:

The Information Assurance and Industrial Security Plan (IA&ISP) shall serve as the overarching document. The contractor shall deliver the other documents listed below as appendices to the IA&ISP.

ISP - Information Security Plan
CCB Charter
CMP - Configuration Management Plan
COOP - Continuity Of Operations Plan
ISA - Interconnection Security Agreement
System Classification Guide
System Security Policy
Risk Management Review Report

In addition the contractor shall provide a complete DIACAP package consisting of:

SIP - System Identification Profile
DIP - DIACAP Implementation Plan
DIACAP Scorecard

Deliverables: IA&ISP (and associated appendices), DIACAP package.

1.3.8.4 Task Area 8 Subtask 4 – Security Personnel Requirements. The contractor shall provide appropriate skilled and certified IA personnel resources to implement and manage the IA program in accordance with the applicable provisions of DODD 8570.01. The contractor shall coordinate with the Government to establish appropriate certification levels for each employee responsible for performing full and/or part-time IA related activities. Upon request by the Government, the contractor shall periodically report the certification status for each employee to satisfy Federal Information Security Management Act (FISMA) reporting requirements. In addition, contractor resources shall include IASAE-qualified personnel with experience, and certification to facilitate the design, development, and evaluation of AMP IA technical controls.

1.3.9 Task Area 9 – Contingency Operations. The Continuity of Operations Plan (COOP) defines the methodology for providing a back-up capability for system users in the event that the primary capability is not available. The contractor shall provide a Contingency Operations Document (contractor specific) that aligns with the Government COOP. The contractor's Contingency Operations Document shall include SA and data storage support procedures at the recovery site. The hardware and software for the site will be Government-furnished to include all maintenance and licenses. Commercial Off-the-Shelf (COTS) software versions will be the same as the versions used in the production environment.

Deliverable: Contingency Operations Document

1.3.9.1 Task Area 9 Subtask 1 – Execution and Effects Review Documentation and Support Requirements. The contractor shall provide the necessary support, to include documentation and advice to meet the USTRANSCOM security and technical requirements of the USTRANSCOM Execution and Effects Review process.

Deliverable: Execution and Effects Review Documents

1.3.10 Task Area 10 – Configuration Management. This support is required to meet the DIACAP and USTRANSCOM technical and security requirements. The CM process facilitates orderly configuration identification, change identification and control, status reporting, and configuration auditing of product information for such beneficial purposes as to revise capability and improve performance, reliability, or maintainability; extend

life; reduce cost; reduce risk and liability; or correct defects. CM ensures that changes take place in an identifiable and controlled process and do not adversely affect any properties of the other system or interfaces.

1.3.10.1 Task Area 10 Subtask 1 – Configuration Manager Responsibilities. The contractor's Configuration Manager shall develop a CMP and processes that is consistent with and complements the Government CMP and processes. The contractor's Configuration Manager shall establish and maintain the following:

- Baselines (versioning)
- Configuration identification
- Change control
- Configuration status accounting
- CM audits
- CM Repository
- Process improvement

Deliverable: Configuration Management Plan

1.3.10.2 Task Area 10 Subtask 2 – Configuration Identification. The contractor shall provide configuration identification as specified in their CMP. This identification may include hardware configuration items or software configuration items.

Deliverable: Updated Configuration Item Listings

1.3.10.3 Task Area 10 Subtask 3 – Change Control. The contractor shall provide change control for all AMP baselines and configuration items to include documentation, application source, and executable code. The contractor shall provide an automated configuration management tool to assist in this effort. This tool shall allow Government web access to ensure Government oversight of the change process. This tool will provide requirement and CR tracking. Additionally, the contractor shall provide a process to allow AMP users to request software improvements and development of new AMP capabilities.

1.3.10.3.1 Evaluating Change Requests. The contractor shall evaluate suggested software improvements and new capability development requests. The contractor shall document the evaluations. Evaluations include, but are not limited to, requirements analysis, clarification of the requirement with the originator, determining if the requirement is feasible and providing a cost estimate, what computer resources and man-hours the project shall require, its adherence to standards, and the consequences of the proposed change. In addition, the contractor shall ensure participation by the IASAE or a qualified IA representative to evaluate the impact of each change on security. The contractor shall document the results of these evaluations and provide them to the PMO for evaluation via the automated change control tool and/or as a separate document depending on the amount of information required or provided.

Deliverable: Change Request Evaluation Reports

1.3.10.3.2 Configuration Control Board (CCB). Upon request from the COR or PM, the contractor's Configuration Manager may be asked to participate in the Government's CCB. This participation will be as the liaison between the Government and contractor to provide any additional information which the CCB requires.

1.3.10.3.3 Configuration Status Accounting. The contractor shall provide, upon request of the COR or PM, status of all baselines, configuration items, and status of all outstanding change requests in the automated change control tool.

Deliverable: Status Accounting Reports

1.3.10.3.4 CM Audits. The contractor shall conduct a physical and functional configuration audit of each code baseline/release delivered to the PMO.

Deliverable: Audit Reports

1.3.10.3.5 Configuration Management Process Improvement. The contractor shall provide recommendations to improve the CM process during the annual CMP review.

Deliverable: Process Improvement Recommendations

1.3.11. Task Area 11 – Enhancements. The contractor shall provide the following new software and enhancements to the existing AMP application.

1.3.11.1 AMP Federation. The contractor shall maintain and expand Federation API and data model.

1.3.11.2 AMP Infrastructure. The contractor shall design, develop, and test the needed infrastructure to support the installation and updating of federates. The AMP infrastructure will be extensible to meet future USTRANSCOM needs. The AMP infrastructure will be compliant with USTRANSCOM EA standards.

1.3.11.3 AMP Security. The contractor shall design, develop, test and apply required security features.

1.3.11.4 AMP Data Management. The contractor shall ensure AMP data is compliant with USTRANSCOM's DPIEDM.

1.3.11.5 AMP Design. The contractor shall design the infrastructure and GUI to support Federation integration efforts. The design will support the future addition of and change to existing federates. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users.

1.3.11.6 Global Infrastructure Analysis. A set of port analysis tools that provide highly detailed airport and seaport throughput analysis to support current and future warfighter needs shall be developed within the AMP Federation.

1.3.11.6.1 The contractor shall design, develop, and test changes to the AMP Federation that will incorporate the fidelity of seaport modeling.

1.3.11.6.2 The contractor shall develop code optimization techniques that will shorten SST run times.

1.3.11.6.3 The contractor shall design, develop, and test SST critics that will give analysts feedback on setup issues.

1.3.11.6.4 The contractor shall design, develop, and test the implementation of operating hours for seaports.

1.3.11.6.5 The contractor shall design, develop, and test the capability to breakdown containers.

1.3.11.6.6 The contractor shall design, develop, and test the capability of simulating Joint Logistics Over The Shore (JLOTS)/Austere port operations. This will include Auxiliary Crane Ships (T-ACS), lightering, causeways, landing craft, barges, etc.)

1.3.11.6.7 The AMP Contractor shall design, develop, and test the inclusion and modeling of tanker ships and Petroleum, Oil and Lubricants (POL) terminals.

1.3.11.7 APOD Model Enhancements.

1.3.11.7.1 The contractor shall design, develop, and test movement of outbound cargo operations (i.e., modeling of SPOE operations).

1.3.11.7.2 The contractor shall include the use of exogenous events during the simulation run.

1.3.11.7.3 The contractor shall develop detailed animation of the seaport modeling during run time.

1.3.11.7.4 The contractor shall model crane availability to support offloading capabilities.

1.3.11.7.5 The contractor shall develop a linkage between the SPOE/SPOD modeling capability and the road and rail network.

1.3.11.7.6 The contractor shall design, develop, and test the capability to process cargo in storage areas.

1.3.11.7.7 The contractor shall develop documentation for all new functionality developed within the APOD Model (AMP-PAT) tools.

1.3.11.8 Surface Modeling. The contractor shall investigate and report the feasibility of moving the surface ELIST movement functionality into AMP without using the ELIST model as a Federate, while using the MIDAS model to support theater airlift requirements (theater modeling).

1.3.11.9 AMP Reports/Results. The contractor shall continue to design, develop, and test feedback of interim and final AMP Federation results. This includes reports, results viewing, and graphs.

1.3.11.10 AMP Critics. The contractor shall continue to design, develop and test AMP ‘Critics.’ These include pre-run checks on AMP setup data and post-run checks on Federation results.

1.3.11.11 AMP Mapping Support. The contractor shall continue to design, develop, and test mapping support in AMP. Keep AMP up-to-date with OpenMap releases. The contractor shall continue to add key setup and run time information to the map.

1.3.11.12 APOD Model (AMP-PAT), MIDAS, ELIST Federation Integration. The contractor shall continue to support integration of key models in AMP. The contractor will keep the Federation up-to-date with APOD Model (AMP-PAT), MIDAS, and ELIST releases.

1.3.11.13 Enhance End-to-End Integration. The contractor shall continue to design, develop, and test integration of CONUS-ELIST with MIDAS in AMP. This task will be bound by the ability of the MIDAS model to dynamically exchange data with CONUS-ELIST.

1.3.11.14 Auto-Populate AMP Data Fields. The contractor shall provide the capability to auto-populate AMP data fields directly from the Mobility Planning Factors Database (MPFD).

1.3.11.15 AMP and Simulation Testing Operations Rehearsal Model (STORM) Integration. The contractor shall investigate the feasibility and resources required to integrate the AMP model with the STORM warfight model.

1.3.11.16 Model Enhancements.

1.3.11.16.1 The contractor shall provide the ability to dynamically link AMP Geographical Locations (GEOLOCs) to Joint Staff Warfight Model locations.

1.3.11.16.2 The contractor shall provide the design, development, and testing of analytical tools in support of model run results after a Federation run. The tool should be able to read and process data available from AMP and JICM.

1.4 Deliverables. The contractor shall provide all deliverables electronically to the PM; the deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software. Large files shall be provided on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD. The contractor shall provide a soft copy of each deliverable to each of the following organizational e-mail accounts: ustcj6-p-cm@ustranscom.mil and ustcj6-pc-ms@ustranscom.mil.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. “Format”, as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Due Date
1.3.1.1	TOMP	Government-Determined	30 calendar days after contract award	15 days from receipt of Government comments Updates due 30 calendar days after receipt of each task order award
1.3.1.2	MSR	Government-Determined	N/A	10 th day of each month Final to be provided NLT the last day of the contract
1.3.1.3	Presentation Materials, IPR Meeting Minutes and Slides	Government-Determined	Presentation Materials due 2 days prior to IPR	5 days after IPR
1.3.1.4	IMS	Contractor and Government-Determined	15 days after contract award. Updated monthly (include with MSR) or when schedule changes.	15 days from receipt of Government comments
1.3.1.5	CSR	Government-Determined	N/A	20 days after each contract period of performance Final to be provided NLT the last day of the contract
1.3.1.6	Variance Report	Contractor-Determined	N/A	As applicable
1.3.4.1	Database Design Description/Data Structure Design Descriptions (if applicable)	Contractor-Determined Format	NLT 45 calendar days prior to each software release. One Soft Copy (e-mailed)	NLT 10 days after receipt of Government comments
1.3.4.1	Software Requirement Specifications (SRS)	Contractor-Determined Format	NLT 30 calendar days prior to software release	NLT 10 days after receipt of Government comments
1.3.4.1	Software VDD	Contractor-Determined Format	NLT 60 calendar days prior to software release	NLT 10 days after receipt of Government comments.
1.3.4.2	System Test Procedures	Contractor - Determined Format	30 calendar days before scheduled release date of corresponding software version	NLT 10 days after receipt of Government comments
1.3.4.2	System Test Description	Contractor - Determined Format	30 calendar days before scheduled release date of corresponding software version	NLT 10 days after receipt of Government comments
1.3.4.2	System Test Plan	Contractor - Determined Format	30 calendar days before scheduled release date of corresponding software version	NLT 10 days after receipt of Government comments
1.3.4.2	System Test Reports	Contractor - Determined Format	N/A	Not later than 7 calendar days following completion of system test
1.3.4.2	Data Management and SA Support Evaluations	Contractor - Determined Format	N/A	Not later than 14 calendar days following completion of system test

1.3.4.3	Software Release (CD/DVD)	Contractor-Determined Format	N/A	End of performance period or at Government's request
1.3.4.3	User's Manual	Contractor-Determined Format	20 days prior to major software release	10 days after receipt of Government comments
1.3.4.3	Software Source Code	Contractor-Determined Format	N/A	End of performance period or at Government's request.
1.3.4.3	Computer Software Release Documentation	Contractor Determined Format	N/A	End of performance period or at Government's request.
1.3.4.3	Technical Data	Contractor Determined Format	N/A	End of performance period or at Government's request.
1.3.5.2	IRS or ICD (one per interface). (ICD or equivalent requires PM approval)	Contractor-Determined Format	Required when changes are made to existing interfaces or when a new interface is developed. Not later than 40 calendar days before implementation date of release containing modified or new interface.	Not later than 10 days after receipt of Government comments.
1.3.5.2	IRDD or ICD (one per interface). (ICD or equivalent requires PM approval)	Contractor-Determined Format	Not later than 40 calendar days before implementation date of release containing modified or new interface.	Not later than 10 days after receipt of Government comments.
1.3.6.3	Architecture Products	Government-Determined Format	As required by the Government	NLT 15 days after receipt of Government comments
1.3.6.4	LDM	Contractor and Government-Determined Format	N/A	60 calendar days after contract award and 1 month after each software release, as required.
1.3.6.5	Data Dictionary	Contractor - Determined Format	NLT 30 calendar days prior to each software release	NLT 10 days after receipt of Government comments
1.3.7	System Administration Manual	Contractor-Determined Format	20 days prior to major software release	10 days after receipt of Government comments
1.3.8.3	IA&ISP	Government-Determined Format	Initial submission not later than 120 calendar days after contract award. Updates as required by the Government.	Not Later Than 15 days after receipt of Government comments.
1.3.8.3	DIACAP Package	Government-Determined Format	As directed by the Government.	Not Later Than 15 days after receipt of Government comments.
1.3.9	Contingency Operations Document	Contractor-Determined Format	30 calendar days before end of base contract period	NLT 10 days after receipt of Government comments. Updates due once per contract option

				period
1.3.9.1	Execution and Effects Review Documents	Government-Determined Format	Upon Government request	5 days after receipt of Government comments
1.3.10.1	Configuration Management Plan	Contractor-Determined Format	NLT 30 calendar days after contract award. Update as required by the Government	NLT 10 days after receipt of Government comments
1.3.10.2	Updated Configuration Item Listings	Contractor Determined Format	NLT 60 calendar days prior to end of FY	NLT 10 calendar days after receipt of Government comments
1.3.10.3.1	CR Evaluation Reports	Contractor-Determined Format	N/A	NLT 20 calendar days after receiving change request
1.3.10.3.3	Status Accounting Reports	Contractor Determined Format	Monthly, with the MSR	Within 5 days after receipt of Government comments
1.3.10.3.4	Audit Reports	Contractor Determined Format	Keyed to major releases as determined by the Government	Within 10 days after receipt of Government comments
1.3.10.3.5	Process Improvement Recommendations	Contractor Determined Format	NLT 120 days after contract award, and every 120 days thereafter	Within 10 days after receipt of Government comments
4.2.1	Trip Report	Government-Determined Format	N/A	5 days after completion of travel

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Submit IMS	1.3.1.4	Schedule includes major milestones and their completion dates; sub-schedules for each major milestone (including closure criteria). Schedule addresses design, development, testing, training, and deployment for each applicable task area. Schedule and updates delivered in accordance with deliverable schedule.
Prepare and provide CSR	1.3.1.5	95% of all identified issues worked to completion and closed, unless the contractor obtains PM approval for incompleteness or lack of closure for specific issues.
Provide AMP Software release	1.3.4.3	No more than one (1) late delivery and no more than five (5) days late. No more than two (2) sets of revisions/corrections with all revisions/corrections accomplished within five (5) days. No major re-work 100% of the time.

2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After

receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). GFE will be used to support the AMP tasks to be performed at the contractor's site. USTRANSCOM will maintain all GFE. The USTRANSCOM objective is to accomplish required maintenance within 48 hours of receipt at USTRANSCOM and to return the GFE to the contractor via overnight delivery. The Government will provide the equipment and leased line to support the Secure Internet Protocol Router Network (SIPRNET) connection in support of the secure network requirement described in Paragraph 5.17 of this PWS. The Government shall provide the latest version of the following documents to the contractor:

- DOD 5200.1-R, Information Security Program
- DODI 8510.01, DOD Certification and Accreditation Process, November 28, 2007
- DOD Directive 8500.01E, Information Assurance
- DOD Instruction 8500.2, Information Assurance Implementation
- DIACAP Implementation Plan - USTRANSCOM Template
- System Classification Guide
- System Security Policy
- Risk Management Review Report
- MIL-STD 3022, Documentation of Verification, Validation, and Accreditation (VV&A) For Models And Simulations, 28 Jan 2008
- USTRANSCOM Pamphlet 33-2, Communication Guide

GOVERNMENT FURNISHED EQUIPMENT (GFE) LISTING

Serial Number	Part Number	Model Number	Model Desc	Est Cost
23579681	61000034D2	CPU	Gateway P4 1400	\$1,284
031C16C7	61000033J9	SUN	18.2 GB Hard Drive	149
045H2C5A	610000341P	SUN	ULTRA 60	749
219V00AE	610000365L	SERVER	SUN FIRE 880	1180
450G4023	61000035ZH	TAPE DRIVE	SUN External	180
602F0284	610000082X	SUN	ULTRA 1	1460
628G3304	6100003250	SUN	Tape Drive	180
7WF16B1		SERVER	DELL 6850 POWEREDGE SERVER	9093
9429FR3687	61000033YI	SUN	Monitor	455
9502FR4029	61000008II	SUN	Monitor	455
DZKWN41		CPU	Dell Precision 650 (Strongbad)	820
TW22530559		MONITOR	HP 17" Flat Panel	320
27645944	610000367D	CPU	Gateway E6000 P4 2400	1600
201003317	61000035T4	MONITOR	NEC Flat Panel 18"	360
FBKYRF1		WORKSTATION	Dell Precision 690 (Fabfour)	720
MUL8006A0045134	61000037MA	MONITOR	Gateway (Wolverine)	320
85SVT91		WORKSTATION	Dell Precision 670 (Wolverine)	688
24682585	610000367D	PC	Gateway P4 1400	1284
MCOC95364663477C1C5L		MONITOR	Dell 20" LCD (Fabfour)	380
962R6B1		Disk Array	Dell/EMC ax150 RAID Array	6000
MUL8006A0045628?	61000037ML	MONITOR	Gateway (Strongbad)	

C8KQ6B1	26639930989	SERVER	DELL 6850 POWEREDGE SERVER	2099
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Total Estimated Cost \$29,456

3.2 Facilities. No facilities specified.

4.0 GENERAL INFORMATION

4.1 – 4.2 All provisions of the Contract Level PWS apply.

4.3 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB. However, to accommodate the contractor's on-site support personnel, the Government will provide controlled working space, phone, computer, fax, and connections to the NIPRNET or SIPRNET, as required at no cost to the contractor for one FTE.

4.4 Travel. Performance under this PWS shall require contractor travel within and outside the Continental United States (OCONUS). Appendix A lists anticipated travel requirements. The Government shall reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). All contractor travel shall be coordinated with and validated by the PM prior to incurring any travel expenses. Travel requests shall be submitted in writing at least five (5) business days in advance from the travel commencement date shall consist of:

- Title, Purpose/Objective, Expected Outcome
- Date, Time (window), and Location
- Proposed Itinerary
- Proposed Meeting/Activities Agenda
- Number of Contractor Participants
- Desired Government Participants
- Requested Government Support
- Estimated Costs

The contractor shall identify personnel who will be traveling in sufficient time to obtain the lowest possible rates for airfare, rental car and lodging. Contractor invoices (along with associated receipts) shall support all travel reimbursement requests. The Government will not reimburse local travel and related expenses to the contractor for daily travel to or from the place of performance stipulated in this PWS. Contractors shall not use General Services Administration city pair contracts.

ANTICIPATED CONTRACTOR TRAVEL

For estimating purposes, the Government anticipates the following trips (estimates include travel days) during the period of performance:

Origin	Destination	Duration (days)	Trip Description	No of People	Trips
Contractor location, if applicable	Scott, AFB	1	Kickoff	3	1
Contractor location, if applicable	Wash DC	2	UGM	4	1
St. Louis, MO	Wash DC	2	UGM	1	1
Contractor location, if applicable	Scott, AFB	1	IPR	3	2
St. Louis, MO	Contractor location, if applicable	2	Design Meeting	2	2
Wash DC	Contractor location, if applicable	2	Design Meeting	1	1

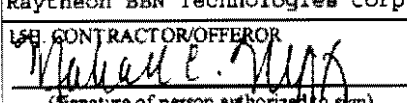
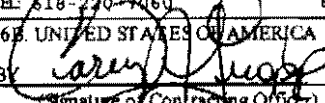
4.2.1 Trip Report. The contractor shall prepare and submit a trip report, including meeting minutes if applicable, following the conclusion of travel to the PM. Additionally, the contractor shall attach a copy of the trip report and minutes to the monthly status report. The report shall include the purpose, list of travelers' names, itinerary, agenda (if applicable), discussion (to include trip objective, problems encountered, findings, issues and action items, and future commitments made.

Deliverable: Trip Report

4.5 – 4.6 All provisions of the Contract Level PWS apply.

4.7 Period of Performance. The period of performance for this task order is 1 Oct 2009 to 30 Sep 2010.

4.8 – 5.19 All provisions of the Contract Level PWS apply.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE Z	PAGE OF PAGES 1 3
2. AMENDMENT/MODIFICATION NO. 04		3. EFFECTIVE DATE 01-Oct-2010	4. REQUISITION/PURCHASE REQ NO. SEE SCHEDULE	
6. ISSUED BY USTRANSCOM-A2 - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5367		CODE HTC711	5. PROJECT NO. (if applicable)	
		7. ADMINISTERED BY (if other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02136-1119			9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
			X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0001	
			X 10B. DATED (SEE ITEM 13) 01-Oct-2009	
CODE 3U6L5		FACILITY CODE		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 13, and returning _____ copies 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 ACKNOWLEDGMENT 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 CONTRACT ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
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.				
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).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
X D. OTHER (Specify type of modification and authority) FAR 52.217-8, Option to Extend Services				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> 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.) Modification Control Number: tcperajm102378 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to extend the period of performance on PWS tasks 1.3.6.1.2.1 - 1.3.6.1.2.32 and 1.3.4.3 from 30 Sep 10 to and including 8 Oct 10. This modification is provided at no cost to the Government. All other terms and conditions remain unchanged. The point of contact for this modification is Mr. Joe Pereyra, 618-220-7109.				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Neff, Sr Manager, Contract Relations Raytheon BBN Technologies Corp.			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CAREY N. GROPP TEL: 618-220-7460 EMAIL: carey.gropp@ustranacom.mil	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)		15C. DATE SIGNED 16 Sep 2010		16C. DATE SIGNED SEP 16 2010
		16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)		

NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119	9A. AMENDMENT OF SOLICITATION
	9B. DATED (SEE ITEM 11)
	X 10A. MOD. OF CONTRACT/ORDER HTC711-10-D-S002-0001
	X 10B. DATED (SEE ITEM 13) 01-Oct-2009

ODE

306L5

FACILITY CODE

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 Offer ☐ is extended, ☐ is not extended.

Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.

2. 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.

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.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in pay office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)
FAR 52.217-8, Option to Extend Services

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

4. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
Modification Control Number: tcperojm102379

ANALYSIS OF MOBILITY PLATFORM (AMP)

The purpose of this modification is to extend the period of performance on PWS tasks 1.3.6.1.2.1 - 1.3.6.1.2.32 and 1.3.4.3 from 30 Sep 10 to and including 8 Oct 10. This modification is provided at no cost to the Government. All other terms and conditions remain unchanged.

The point of contact for this modification is Mr. Joe Pereyra, 618-220-7109.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

5A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CAREY N. GROPP / CONTRACTING OFFICER TEL: 618-220-7060 EMAIL: carey.gropp@ustranscom.mil		
5B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE 16-Sep
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for SUBCLIN 0001AA has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 30-SEP-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2009 TO 08-OCT-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for SUBCLIN 0001AF has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 29-JUL-2010 TO 30-SEP-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 29-JUL-2010 TO 08-OCT-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

(End of Summary of Changes)

ORDER FOR SUPPLIES OR SERVICES						PAGE 1 OF 7						
1. CONTRACT/PURCH ORDER/ AGREEMENT NO HTC711-10-D-S002		2. DELIVERY ORDER/ CALL NO. 0002		3. DATE OF ORDER/ CALL (YYYYMMDD) 2010 May 13		4. REQ / PURCH REQUEST NO F3ST950041A001		5. PRIORITY				
6. ISSUED BY USTRANSCOM-AG - HTC711 538 SCOTT DR SCOTT AFB IL 62225-5357			7. ADMINISTERED BY (if other than 6) SEE ITEM 6		8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)							
9. CONTRACTOR CODE 3U8L5 RAY THEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119			FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED					
12. DISCOUNT TERMS Net 30 Days			13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 6									
14. SHIP TO CODE F3ST95 USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357			15. PAYMENT WILL BE MADE BY CODE F87700 DFAS-LIMESTONE DEAMS - F87700 ACCTG DISB STA NR 387700 DFAS DEAMS 27 ARKANSAS RD LIMESTONE ME 04751-6216			MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.						
16. TYPE OF ORDER		DELIVERY/ CALL <input checked="" type="checkbox"/> X PURCHASE		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract Reference your quote dated Furnish the following on terms specified herein REF								
ACCEPTANCE THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.												
NAME OF CONTRACTOR		SIGNATURE		TYPED NAME AND TITLE			DATE SIGNED (YYYYMMDD)					
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies												
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule												
18. ITEM NO		19. SCHEDULE OF SUPPLIES SERVICES			20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT		22. UNIT PRICE		23. AMOUNT	
		SEE SCHEDULE										
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle				24. UNITED STATES OF AMERICA TEL: 618-229-2469 EMAIL: carey.gropp@ustranacom.mil BY: CAREY N. GROPP				25. TOTAL 26. DIFFERENCES		\$408 419 72		
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED												
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE					28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS			
f. TELEPHONE NUMBER		g. E-MAIL ADDRESS			<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR			
38. I certify this account is correct and proper for payment.					31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		34. CHECK NUMBER					
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER			35. BILL OF LADING NO							
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. SR ACCOUNT NO		42. SR VOUCHER NO		

ORDER FOR SUPPLIES OR SERVICES										PAGE 1 OF 7	
1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. HTC711-10-D-S002			2. DELIVERY ORDER/ CALL NO. 0002		3. DATE OF ORDER/ CALL (YYYYMMDD) 2010 May 13		4. REQ./ PURCH. REQUEST NO. F3ST950041A001		5. PRIORITY		
6. ISSUED BY USTC AT21 PMO - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357			CODE HTC711		7. ADMINISTERED BY (if other than 6) CODE SEE ITEM 6				8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)		
9. CONTRACTOR RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119			CODE 3U6L5		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED		
							12. DISCOUNT TERMS Net 30 Days		13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 6		
14. SHIP TO USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357			CODE F3ST95		15. PAYMENT WILL BE MADE BY CODE F87700 DFAS-LIMESTONE DEAMS - F87700 ACCTG DISB STA NR 387700 DFAS DEAMS 27 ARKANSAS RD LIMESTONE ME 04751-6216				MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.		
16. TYPE OF ORDER		DELIVERY/ CALL		<input checked="" type="checkbox"/>		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.					
		PURCHASE		<input type="checkbox"/>		Reference your quote dated Furnish the following on terms specified herein. REF:					
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.											
NAME OF CONTRACTOR			SIGNATURE			TYPED NAME AND TITLE			DATE SIGNED (YYYYMMDD)		
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:											
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule											
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES				20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT	22. UNIT PRICE	23. AMOUNT	
		SEE SCHEDULE									
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.					24. UNITED STATES OF AMERICA TEL: 618-229-2469 EMAIL: carey.gropp@ustranscom.mil BY: CAREY N. GROPP				25. TOTAL	\$408,419.72	
27a. QUANTITY IN COLUMN 20 HAS BEEN					CONTRACTING / ORDERING OFFICER				26. DIFFERENCES		
<input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED											
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE				
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE					28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS		
f. TELEPHONE NUMBER		g. E-MAIL ADDRESS			<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR		
36. I certify this account is correct and proper for payment.					31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL				34. CHECK NUMBER		
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER							35. BILL OF LADING NO.		
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.		42. S/R VOUCHER NO.	

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Labor - FY10 TWCF CAP LH Labor, in accordance with Task Order Level PWS paragraphs 1.3.11.59, 1.3.11.60.1 - 1.3.11.60.5 dated 5 Apr 10, for the period of 13 May 10 - 30 Sep 10. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950041A001 SIGNAL CODE: A	145,419.01	Lot	\$1.00	\$145,419.01
				TOT ESTIMATED PRICE	\$145,419.01
				CEILING PRICE	\$0.00
	ACRN AA CIN: F3ST950041A0010000AA				\$145,419.01

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Labor - FY09 DPO CAP LH Labor, in accordance with Task Order Level PWS paragraphs 1.3.11.58 and 1.3.11.58.2 dated 5 Apr 10, for the period of 13 May 10 - 30 Sep 10. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950041A001 SIGNAL CODE: A	134,354.48	Lot	\$1.00	\$134,354.48
				TOT ESTIMATED PRICE	\$134,354.48
				CEILING PRICE	\$0.00
	ACRN AB CIN: F3ST950041A0010000AC				\$134,354.48

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	Labor - FY10 DPO CAP LH Labor, in accordance with Task Order Level PWS paragraphs 1.3.11.56 and 1.3.11.58.1 dated 5 Apr 10, for the period of 13 May 10 - 30 Sep 10. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950041A001 SIGNAL CODE: A	128,646.23	Lot	\$1.00	\$128,646.23
TOT ESTIMATED PRICE					\$128,646.23
CEILING PRICE					\$0.00
ACRN AC CIN: F3ST950041A0010000AB					\$128,646.23

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 13-MAY-2010 TO 30-SEP-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
0002	POP 13-MAY-2010 TO 30-SEP-2010	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
0003	POP 13-MAY-2010 TO 30-SEP-2010	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.FD50 6F0 70AB 249010 G642A4 70110 000000 387700 F87700
AMOUNT: \$145,419.01
CIN F3ST950041A0010000AA: \$145,419.01

AB: 97X4930.FD50 6F9 70AB 249010 G62X00 44510 000000 387700 F87700
AMOUNT: \$134,354.48
CIN F3ST950041A0010000AC: \$134,354.48

AC: 97X4930.FD50 6F0 70AB 249010 G62X00 70110 000000 387700 F87700
AMOUNT: \$128,646.23
CIN F3ST950041A0010000AB: \$128,646.23

Section J - List of Documents, Exhibits and Other Attachments

LIST OF ATTACHMENTS

Atch/Exhib NR	FORM NR	TITLE	DATE	NR OF PAGES
1	N/A	Performance Work Statement	5 Apr 10	4

ATTACHMENT 1

**PERFORMANCE WORK STATEMENT
FOR
TASK ORDER (TO) 0002
ANALYSIS OF MOBILITY PLATFORM (AMP)**

5 April 2010

1.0 DESCRIPTION OF SERVICES

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses.

1.2 Scope. This Performance Work Statement (PWS) contains requirements for enhancements in support of the AMP Federation of models. All provisions of the basic contract apply. With the exception of the Joint Recovery and Distribution System (JRaDS) Modeling task, the paragraph numbers of the below enhancements sequentially follow the numbering scheme of the enhancements section of the Contract Level PWS. The JRaDS Modeling task was included in the Contract Level PWS; however, functional management has determined that the capability needs to be delivered during FY10.

1.3 Specific Tasks.

1.3.11 Task Area 11 – Enhancements. The contractor shall complete all task necessary to provide the following new software and enhancements to the existing AMP application.

1.3.11.56 JRaDS Modeling, The contractor shall provide the capability in the Surface Model to support the JRaDS vehicle and concept of operations. JRaDS will be able to support theater distribution in its entirety within the construct of the Surface Model including theater transportation pools.

1.3.11.58 Surface Distribution Model Development. The AMP modeling federates, Enhanced Logistics Intra-theater Support Tool (ELIST), AMP, and Model for Intra-theater Deployment by Air and Sea (MIDAS), have distinct architectures; in addition, each defines port operations slightly differently. It is the government's intent to eliminate modeling inconsistencies that affected the past year's study cycle. In order to remove these inconsistencies and provide the analysts with a less complicated setup and modeling structure, a Surface Distribution Model shall be created to merge the functionality within the MIDAS & ELIST models into a single entity with a common data model and set of GUIs.

1.3.11.58.1 Core Simulation Capability. The contractor shall design, develop, and reengineer AMP, MIDAS, and ELIST into a single Virtual Machine (VM), forming a core simulation capability. The contractor shall also begin the development of a common GUI framework to support the VM. The contractor shall integrate the data and simulation modules together into a unified framework. The contractor shall develop modules that support strategic, regional, and local planning and scheduling activities. The contractor shall develop a common data model which includes shared network nodes; and merge commodity, deployment plan, and simulation objects. The contractor shall collaborate with the ELIST developer to design and begin development of a common GUI framework for entering data. The contractor shall design and begin development of a causal analysis tool framework. The causal analysis tool will provide the federation with a tool to determine 'why' an event happened or did not happen for requirements moving through the Defense Transportation System or for assets moving requirements. The intent of this tool is to improve the productivity for the analyst and increase the fidelity of the results.

Deliverables: Prototypes of Strategic Planning Module, Local Planning Module, Common Data Model, and Causal Analysis Tool Framework

1.3.11.58.2 Develop Regional Module. The contractor shall develop a regional planning and scheduling module dynamically linked to the strategic planning and scheduling module. This development activity shall support the larger task of developing a Surface Distribution Model (SDM). This task includes developing, testing, and fielding regional surface editors and mapping capability within AMP; capacitated land links; the surface module integration

with the strategic airlift and sealift simulations; the interface between the regional and local modules with the strategic module to form a global scheduler; an updated regional scheduler; and an updated theater airlift star route scheduler. The developer also shall ensure that the regional module will provide the capability to accept a JFAST strategic flow to produce a comprehensive regional distribution solution that takes into account all modes of deploying personnel and materiel into the region. The mapping capability shall include visual representations of the surface link editors and capacitated links, as well as synchronization of the USTRANSCOM geographic information system (GIS) data with Open Map. Capacitated links will allow the model to constrain the land links between the model's surface nodes. The global scheduler will link strategic planning and tactical regional planning for a global scheduling view. The regional module also shall provide the capability of scheduling theater airlift aircraft to support a Star type route structure within a theater of operations. Strategic aircraft will have the capability of supporting shuttles within a theater before returning to the strategic operation.

Deliverables: Regional Planning Module that includes capabilities described in above paragraph

1.3.11.59 Joint Mobility Closure Estimator (JMCE) Enhancement. The contractor shall enhance the JMCE by developing a cost analysis capability. The model is required to provide an elementary Course of Analysis cost report for airlift missions and sealift voyages. Cost data will be furnished by the Government.

Deliverable: JMCE Model that provides the capability to cost courses of action for strategic airlift and sealift movements

1.3.11.60 Seaport Simulation Tool (SST) Model Enhancements.

1.3.11.60.1 SST Rail Capability. The contractor shall develop enhanced seaport simulation rail capabilities within the SST model. The contractor shall develop the capability to allow trains entering and leaving the port to be split between rail interchange yards that are input into the system. The contractor shall develop the capability to allow the user to specify how many switches are between an interchange yard and a rail spur. The contractor shall also develop the capability to allow the user to input the total number of sidings, their associated length, and the number of switches within the interchange yard. The contractor shall develop the ability for users to turn on/off staging areas, berths, rail spurs, and rail interchange yards in the scenario via a toggle button.

1.3.11.60.2 Stranded Cargo Summary Table (SST). The contractor shall develop a summary table for cargo that is stranded at the port within the SST model. The table shall include quantity, location, and description of why the cargo is stranded. The contractor shall provide a draft report format for functional manager review and approval before final development is completed.

1.3.11.60.3 SST Reports. The contractor shall develop SST scenario data and summary reports that generate all of the input data, process times, and results from the simulation in a report format. The contractor shall provide a draft report format for functional manager review and approval before final development is completed.

1.3.11.60.4 Development of Additional SST Analysis Results. The contractor shall develop additional SST analysis results by providing the capability to measure throughput quantity in TEUs/day, STONs/day, and SQ FT/day.

1.3.11.60.5 Develop Charts Within the SST. The contractor shall develop charts within the SST representing utilization over time the usage of gates, rail spurs, rail interchange yards, cranes, port locomotives, and cargo staging areas. Included in these reports is an average daily throughput for port facilities and port equipment. The contractor shall provide a draft report format for functional manager review and approval before final development is completed.

Deliverable: SST Model that provides the capability as described in paragraph 1.3.11.60 and its subparagraphs

1.4 Deliverables. The contractor shall provide all deliverables electronically to the PM; the deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software. Large files shall be provided on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be

combined on a single CD or DVD. The contractor shall provide a soft copy of each deliverable to each of the following organizational e-mail accounts: ustcj6-p-cm@ustranscom.mil and ustcj6-pc-ms@ustranscom.mil.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. "Format", as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Due Date
1.3.11.58.1	Strategic Planning Module	Contractor-Determined	NLT 31 Aug 10	NLT 30 Sep 10
1.3.11.58.1	Local Planning Module	Contractor-Determined	NLT 31 Aug 10	NLT 30 Sep 10
1.3.11.58.1	Common Data Model	Contractor-Determined	NLT 31 Aug 10	NLT 8 days after receipt of Government comments
1.3.11.58.1	Causal Analysis Tool Framework	Contractor-Determined	NLT 31 Aug 10	NLT 30 Sep 10
1.3.11.58.2	Regional Planning Module	Contractor-Determined	NLT 31 Aug 10	NLT 30 Sep 10
1.3.11.59	JMCE Model	Contractor-Determined	NLT 31 Aug 10	NLT 30 Sep 10
1.3.11.60	SST Model	Contractor-Determined	NLT 31 Aug 10	NLT 30 Sep 10

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Strategic Planning Module, Local Planning Module, Common Data Model, Causal Analysis Tool Framework, Regional Planning Module, JMCE Model, SST Model	1.3.11.58.1, 1.3.11.58.2, 1.3.11.59, 1.3.11.60	No more than one (1) late delivery of draft and no more than five (5) days late. No more than two (2) sets of revisions/corrections with all revisions/corrections accomplished or incorporated by due date. A "set" is defined as one instantiation of Government comments on a draft deliverable. A second "set" may be necessary should Government comments be required on the second draft (or "final") delivery in response to the first set of Government comments. No major re-work 100% of the time.

2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). All provisions of the Contract Level PWS apply.

3.2 Facilities. No facilities specified.

4.0 GENERAL INFORMATION.

4.1 – 4.2 All provisions of the Contract Level PWS apply.



4.3 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB. However, to accommodate the contractor's on-site support personnel, the Government will provide controlled working space, phone, computer, fax, and connections to the NIPRNET or SIPRNET, as required at no cost to the contractor for one FTE.

4.4 Travel. No travel is anticipated in the performance of this task order.

4.5 – 4.6 All provisions of the Contract Level PWS apply.

4.7 Period of Performance. The period of performance shall be from date of award through 30 Sep 10.

4.8 – 5.19 All provisions of the Contract Level PWS apply.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE Z		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 01		3. EFFECTIVE DATE 01-Oct-2010		4. REQUISITION/PURCHASE REQ. NO. F3ST050041A001		5. PROJECT NO. (If applicable)
6. ISSUED BY USTRANSCOM-AQ - HTC711 906 SCOTT DR SCOTT AFB IL 62225-5357		CODE HTC711		7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. ELLEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.		
				9B. DATED (SEE ITEM 11)		
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0002		
				X 10B. DATED (SEE ITEM 13) 13-May-2010		
CODE 3U6L5		FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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 CONTRACT/ORDERS IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
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.						
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).						
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
X D. OTHER (Specify type of modification and authority) FAR 52.217-8, Option to Extend Services						
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> 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.) Modification Control Number: tperejm102381 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to extend the period of performance on FWS tasks 1.3.11.58.1 and 1.3.11.58.2 from 30 Sep 10 to and including 8 Oct 10. This modification is provided at no cost to the Government. The point of contact for this modification is Mr. Joe Pereyra, 618-220-7109.						
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Neff, Sr Manager, Contract Relations Raytheon BBN Technologies Corp.				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CAREY W. GROPP TEL: 618-220-7060 EMAIL: carey.gropp@ustrancom.mil		
15B. CONTRACTOR/OFFICER  (Signature of person authorized to sign)		15C. DATE SIGNED 16 Sep 2010		16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)		16C. DATE SIGNED SEP 16 2010

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		CODE HTC711	7. ADMINISTERED BY (If other than item 6) See Item 6		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION	
				9B. DATED (SEE ITEM 11)	
			X	10A. MOD. OF CONTRACT/ORDER HTC711-10-D-S002-0002	
			X	10B. DATED (SEE ITEM 13) 13-May-2010	
CODE 3U6L5		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.					
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.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in pay, office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
X D. OTHER (Specify type of modification and authority) FAR 52.217-8, Option to Extend Services					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcperejm102381 ANALYSIS OF MOBILITY PLATFORM (AMP) The purpose of this modification is to extend the period of performance on PWS tasks 1.3.11.58.1 and 1.3.11.58.2 from 30 Sep 10 to and including 8 Oct 10. This modification is provided at no cost to the Government. The point of contact for this modification is Mr. Joe Pereyra, 618-220-7109.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CAREY N. GROPP / CONTRACTING OFFICER TEL: 618-220-7060 EMAIL: carey.gropp@ustranscom.mil		
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	
				16C. DATE 16-Sep	
EXCEPTION TO SF 30 APPROVED BY OIRM 11-84					
30-105-04					
STANDARD FORM Prescribed by GSA FAR (48 CFR) 53.24					

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for CLIN 0002 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 13-MAY-2010 TO 30-SEP-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 13-MAY-2010 TO 08-OCT-2010	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

(End of Summary of Changes)

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF 8

1 CONTRACT PURCH ORDER AGREEMENT NO HTC711-10-D-S002		2 DELIVERY ORDER CALL NO 0003		3 DATE OF ORDER CALL (YYYYMMDD) 2010 Oct 08		4 REQ PURCH REQUEST NO See Schedule		5 PRIORITY				
6 ISSUED BY USTRANSCOM-AO - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357				7 ADMINISTERED BY (if other than 6) SEE ITEM 6		8 DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)						
9 CONTRACTOR CODE: 3U6L5 RAYTHEON BBN TECHNOLOGIES CORP NAME EILEEN NAYLOR AND 10 MOULTON ST ADDRESS CAMBRIDGE MA 02138-1119				FACILITY		10 DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11 MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED				
						12 DISCOUNT TERMS Net 30 Days		13 MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15				
14 SHIP TO CODE: F3ST95 USIC A171 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST, BLDG 403B SCOTT AFB IL 62225-5357				15 PAYMENT WILL BE MADE BY CODE: F87700 DFAS-LIMESTONE DEAMS - F87700 ACCTG DISB STA NR 387700 DFAS DEAMS 27 ARKANSAS RD LIMESTONE ME 04751-6216				MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.				
16 TYPE OF ORDER		DELIVERY CALL <input checked="" type="checkbox"/>		X This delivery order call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract								
		PURCHASE		Reference your quote dated Furnish the following on terms specified herein REF								
ACCEPTANCE: THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.												
NAME OF CONTRACTOR				SIGNATURE		TYPED NAME AND TITLE		DATE SIGNED (YYYYMMDD)				
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:												
17 ACCOUNTING AND APPROPRIATION DATA - LOCAL USE												
See Schedule												
18 ITEM NO		19 SCHEDULE OF SUPPLIES SERVICES			20 QUANTITY ORDERED ACCEPTED*		21 UNIT		22 UNIT PRICE		23 AMOUNT	
		SEE SCHEDULE										
* If quantity accepted by the Government is same as quantity ordered indicate by X. If different enter actual quantity accepted below quantity ordered and encircle				24 UNITED STATES OF AMERICA TEL: 618-229-7002 EMAIL: Lou.Koch@ustrancom.mil BY: LOU E KOCH				25 TOTAL \$2,298,158.87		26 DIFFERENCES		
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED												
b SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					c DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
e MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE					28 SHIP NO		29 DO VOUCHER NO		30 INITIALS			
f TELEPHONE NUMBER		g E-MAIL ADDRESS			<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32 PAID BY		33 AMOUNT VERIFIED CORRECT FOR			
36. I certify this account is correct and proper for payment.					31 PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL				34 CHECK NUMBER			
a DATE (YYYYMMDD)		b SIGNATURE AND TITLE OF CERTIFYING OFFICER							35 BILL OF LADING NO			
37 RECEIVED AT		38 RECEIVED BY		39 DATE RECEIVED (YYYYMMDD)		40 TOTAL CONTAINERS		41 SR ACCOUNT NO		42 SR VOUCHER NO		

RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119						(YYYYMMDD) SEE SCHEDULE		<input type="checkbox"/> SM. <input type="checkbox"/> DIS. <input type="checkbox"/> WO.	
						12. DISCOUNT TERMS Net 30 Days			
						13. MAIL INVOICES TO THE ADDRESS IN BLOCK 15 See Item 15			
14. SHIP TO USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357			CODE F3ST95	15. PAYMENT WILL BE MADE BY DFAS-LIMESTONE DEAMS - F87700 ACCTG DISB STA NR 387700 DFAS DEAMS 27 ARKANSAS RD LIMESTONE ME 04751-6216			CODE F87700	MAR PACKA PAPER IDENTI NUMB BLOCKS	
16. TYPE OF ORDER	DELIVERY/ CALL	X	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.						
	PURCHASE		Reference your quote dated Furnish the following on terms specified herein. REF:						
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.									
NAME OF CONTRACTOR			SIGNATURE			TYPED NAME AND TITLE			DATE (MM/DD/YY)
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:									
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule									
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES			20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT	22. UNIT PRICE	23. UNIT
		SEE SCHEDULE							
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.				24. UNITED STATES OF AMERICA TEL: 618-220-7082 EMAIL: lou.koch@ustranscom.mil BY: LOU E. KOCH				25. TOTAL	
				CONTRACTING / ORDERING OFFICER				26.	
								DIFFERENCES	
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED									
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE					28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS
					<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR
f. TELEPHONE NUMBER		g. E-MAIL ADDRESS		31. PAYMENT		34. CHECK NUMBER			
36. I certify this account is correct and proper for payment.					<input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		35. BILL OF LADING		
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER			40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.		42. S/R VOUCHER NO.
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)					

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1001	AMP Labor (TWCF CAP SW) LH Labor in accordance with the PWS paragraphs 1.3.4.1-1.3.4.3 and 1.3.11.21.2-1.3.11.61 for the period of 12 Oct 10 – 30 Sep 11. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950204A004-0001 SIGNAL CODE: A	1,607,787.17	Lot	\$1.00	\$1,607,787.17
				TOT MAX PRICE	\$1,607,787.17
	ACRN AA CIN: F3ST950204A0040000AA				\$1,607,787.17
ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1002	AMP Labor (TWCF OPS) LH Labor in accordance with the PWS paragraphs 1.3.1-1.3.3 and 1.3.5.1-1.3.10.3.5 for the period of performance of 12 Oct 10 – 30 Sep 11. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950204A004-0001 SIGNAL CODE: A	655,371.70	Lot	\$1.00	\$655,371.70
				TOT MAX PRICE	\$655,371.70
	ACRN AB CIN: F3ST950204A0040000AB				\$655,371.70

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1003	AMP Travel COST Travel, in accordance with the Federal Travel Regulations and PWS paragraph 4.4, for the period of 12 Oct 10 - 30 Sep 11. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950204A004-0001 SIGNAL CODE: A	25,000	Lot	UNDEFINED	\$25,000.00
				MAX COST	\$25,000.00
	ACRN AB CIN: F3ST950204A0040000AB				\$25,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1004	Option 1 - Other Direct Costs COST Allowable Other Direct Costs in accordance with PWS paragraph 4.6 for the period of 12 Oct 10 - 30 Sep 11. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950204A004-0001 SIGNAL CODE: A	10,000	Lot	UNDEFINED	\$10,000.00
				MAX COST	\$10,000.00
	ACRN AB CIN: F3ST950204A0040000AB				\$10,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1005 OPTION	AMP Labor (RDT&E) LH Labor in accordance with PWS paragraphs 1.3.1, 1.3.1.7, 1.3.3, and 1.3.4.1.	554,405.49	Lot	\$1.00	\$554,405.49

FOB: Destination

PURCHASE REQUEST NUMBER: F3ST950204A004-0003

SIGNAL CODE: A

TOT MAX PRICE \$554,405.49

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1006 OPTION	AMP Labor (TWCF CAP SW) LH Labor in accordance with PWS paragraph 1.3.11.32. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950204A004-0003 SIGNAL CODE: A	258,609.40	Lot	\$1.00	\$258,609.40

TOT MAX PRICE \$258,609.40

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1007 OPTION	AMP Labor (RDT&E) LH Labor in accordance with PWS paragraphs 1.3.11.62.1 – 1.3.11.63.3. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950204A004-0003 SIGNAL CODE: A	2,958,390.21	Lot	\$1.00	\$2,958,390.21

TOT MAX PRICE \$2,958,390.21

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1008 OPTION	AMP Travel COST Travel in accordance with the Federal Travel Regulations and PWS paragraph 4.4. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950204A004-0003 SIGNAL CODE: A	25,000	Lot	UNDEFINED	\$25,000.00
				MAX COST	\$25,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1009 OPTION	AMP Other Direct Charges COST Allowable Other Direct Costs in accordance with PWS paragraph 4.6. FOB: Destination PURCHASE REQUEST NUMBER: F3ST950204A004-0003 SIGNAL CODE: A	15,000	Lot	UNDEFINED	\$15,000.00
				MAX COST	\$15,000.00

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
1001	Destination	Government	Destination	Government
1002	Destination	Government	Destination	Government
1003	Destination	Government	Destination	Government
1004	Destination	Government	Destination	Government
1005	Destination	Government	Destination	Government
1006	Destination	Government	Destination	Government
1007	Destination	Government	Destination	Government
1008	Destination	Government	Destination	Government
1009	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
1001	POP 12-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
1002	POP 12-OCT-2010 TO 30-SEP-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
1003	POP 12-OCT-2010 TO 30-SEP-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
1004	POP 12-OCT-2010 TO 30-SEP-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
1005	POP 12-OCT-2010 TO 30-SEP-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
1006	POP 12-OCT-2010 TO 30-SEP-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
1007	POP 12-OCT-2010 TO 30-SEP-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
1008	POP 12-OCT-2010 TO 30-SEP-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
1009	POP 12-OCT-2010 TO 30-SEP-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.FD50 6F1 70AB 24901 G04N70 70110 00000F 387700 F87700

AMOUNT: \$1,607,787.17

CIN F3ST950204A0040000AA: \$1,607,787.17

AB: 97X4930.FD50 6F1 70AB 12901 G04N70 70210 00000F 387700 F87700

AMOUNT: \$690,371.70

CIN F3ST950204A0040000AB: \$690,371.70

ATTACHMENT 1

**PERFORMANCE WORK STATEMENT
FOR
TASK ORDER (TO) 0003
ANALYSIS OF MOBILITY PLATFORM (AMP)**

8 October 2010

1.0 DESCRIPTION OF SERVICES

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses.

1.2 Scope. This Performance Work Statement (PWS) contains requirements in support of the AMP Federation of models. All provisions of the basic contract apply. The paragraph numbers of the below sequentially follow the numbering scheme of the Contract Level PWS.

1.3 Specific Tasks. The specific task areas with associated subtasks to be performed are identified as: Contract Management, Studies Support, Requirements Definition, Design and Development, System Interface Support, Maintenance, System Administration, Information Assurance, Contingency Operations, Configuration Management, and Enhancements.

1.3.1 Task Area 1 – Contract Management. This task area shall encompass overall contract management to include administrative, clerical, documentation, and related functions. The contractor shall designate an individual from the contractor's resources to be the focal point for all contract management communications with USTRANSCOM, and to be responsible for ensuring successful accomplishment of PWS tasks. Point of contact (POC) information, to include name, title, phone number, and e-mail address, are to be provided to the Contracting Officer at the Post-Award Conference.

1.3.1.1 Task Area 1 Subtask 1 - Task Order Management Plan (TOMP). The contractor shall prepare a TOMP that describes tasks, dependencies, management and technical approach, organizational resources, and management controls to be employed to meet cost, performance and schedule requirements throughout contract execution. The TOMP shall include the contractor's approach to plan for, identify, monitor, and control risk in all phases of this effort. The TOMP also shall include a work breakdown structure (WBS) that defines resources and dependencies. In addition, the TOMP shall include a description of the contractor's requirements management process. The contractor shall update the TOMP after receipt of each subsequent task order received during the period of performance of this task order.

Deliverable: TOMP

1.3.1.2 Task Area 1 Subtask 2 - Monthly Status Reports (MSR). The contractor shall submit an MSR summarizing overall status, progress, and recommendations and shall include details and results of the work performed during the reporting period, identifying any issues, problem areas, and items that require Government action; work planned for the next month; change request and problem report evaluations, as necessary; dates and locations of IPRs conducted; hours performed on each task(s) by labor category and by Contract Line Item Number (CLIN); actual and projected expenditures; meetings attended; cost, schedule and or performance variance that includes a description of how the variances were determined; risk assessment and mitigation recommendations; open issues; a list of deliverables provided; and key personnel (e.g., project manager, lead developer, lead engineer) changes. Estimated and actual travel costs shall be reported, together with contractor name, trip location and purpose, and dates of travel. The MSR shall include copies of invoices for all travel performed during the reporting period.

Deliverable: MSR

1.3.1.3 Task Area 1 Subtask 3 - In-Process Reviews (IPRs). The contractor shall conduct and/or host IPRs on a quarterly basis or as the program manager (PM) requires. The PM will determine dates and whether IPRs will be

held at the contractor's site, at USTRANSCOM, via video teleconference, web-cast, or conference call. IPRs shall summarize status, progress, new capability requirements and program schedule to include new requirements, risk, and remediation plan in any task area. The contractor shall prepare presentation materials and provide to the PM in accordance with the schedule in the table in Paragraph 1.4. At a minimum, the contractor shall include in the minutes a record of activity, decisions made, date, location and attendees.

Deliverables: Presentation Materials, IPR Meeting Minutes and Slides

1.3.1.4 Task Area 1 Subtask 4 - Integrated Management Schedule (IMS). The contractor shall develop and deliver to the PM an IMS that provides a schedule for all major milestones as currently tasked to the contractor. It shall also include anticipated future work to support schedule and workload de-confliction. The IMS shall include a high-level Master Schedule which lists the major milestones and completion dates associated with each. The IMS shall also include sub-schedules for each major milestone that lists closure criteria (specific actions that must be taken prior to reaching the milestone) and scheduled completion dates for each closure criterion. The schedule shall address design, development, test, and deployment for approved new system capabilities, and shall show the critical path. The contractor shall keep this schedule current, making schedule changes as necessary after coordinating these changes with the PM. The IMS shall be delivered with the MSR, or when circumstances necessitate a change to the schedule, whichever occurs first.

Deliverable: IMS

1.3.1.5 Reserved.

1.3.1.6 Task Area 1 Subtask 6 - Variance Report. The contractor shall notify the PM and the Contracting Officer's Representative (COR) by submitting a variance report when any labor cost varies more than 5 percent from the baseline or latest PM-accepted change to the baseline. The contractor shall schedule a meeting with the PM and the COR when any labor cost varies more than 10 percent from the baseline or latest PM-accepted change to the baseline.

Deliverable: Variance Report

1.3.1.7 Task Area 1 Subtask 7 - Demonstration Support. The contractor shall conduct technical presentations or demonstrations to USTRANSCOM, other Department of Defense (DOD) commands, and other AMP users when requested by the PM. The contractor shall support presentations or demonstrations at other venues when required by the PM. For example, the contractor may be required to demonstrate the functionality of the software at AMP IPRs or at AMP User Conferences. This support may include but is not limited to scenario and system set-up and other subject matter expert support.

1.3.1.8 Task Area 1 Subtask 8 – Teleconferences. The contractor shall conduct weekly telephone conferences with the PM to provide current status of all tasks.

1.3.2 Task Area 2 - Studies Support. The contractor shall support planning and execution of analytical studies such as the Defense Program Guidance's Mobility Capabilities and Requirements Studies and Quadrennial Defense Review. This may require software modifications, analysis of study requirements and products, and on-site support. As appropriate to the specific study, the contractor shall work with MIDAS, ELIST, and other model development contractors to define upgrades and enhancements to software of AMP, MIDAS, ELIST, and other models, and coordinate release and testing schedules. The contractor shall make necessary modifications to the AMP Federate and shall enhance the graphical user interfaces (GUI) and/or charts as directed by the COR or the PM. The contractor shall define an approach to integrate the Federation, coordinate integration for the Federation, conduct integration and testing, and perform trouble-shooting to repair or modify software problems identified during model execution.

1.3.3 Task Area 3 - Requirements Management. The contractor shall be responsible for facilitation and administration of the AMP requirements management process. The contractor shall comply with the USTRANSCOM Program Management Office (PMO) Requirements Management Plan. The Functional Manager (FM) will provide a prioritized list of functional requirements to the PM, who then will provide these requirements

to the contractor. The contractor shall coordinate and integrate the technical expertise required to construct the system and associated databases (if applicable), and support field testing in a limited operational environment. To implement Federation-level requirements, the contractor shall coordinate with developers of other Federation systems as described in the Government-provided Memoranda of Agreement between AMP and these other systems.

1.3.3.1 Reserved.

1.3.4 Task Area 4 – Design and Development. The contractor shall design, develop, and test the AMP infrastructure and GUI to support Federation integration efforts. The contractor shall continue to design, develop, test and apply required security features. The design and development will support the future addition of, and changes to, existing federates. The GUI will include mechanisms for configuring and running AMP models. The GUI development will be compliant with USTRANSCOM EA standards. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users. The AMP infrastructure will be extensible to meet future USTRANSCOM needs. The AMP infrastructure will be compliant with USTRANSCOM EA standards. The contractor shall maintain and expand the Federation application programming interface (API) and the data model.

The contractor shall develop and test new system capabilities using commercial best practices appropriate to the AMP functional requirements. For System Development, the contractor shall:

- Design, code, test, document, and support full system integration of software and software releases (including software changes), assessments and prototypes supporting application development.
- Propose release content and schedules based upon the known Government requirements and priorities.
- Provide necessary models and simulations to support the verification and validation.
- Provide software size, cost, and schedule estimates, and include justification and confidence level behind the estimates.
- Deliver any developed corporate applications software artifacts to the PMO.

1.3.4.1 Task Area 4 Subtask 1 – Software Development. The contractor shall employ software engineering commercial best practices in performing software development and support. The contractor shall designate a lead engineer for the software engineering and technical interactions with USTRANSCOM. The contractor shall be responsible for providing design, development, test and integration, configuration management (CM), quality assurance (QA), and documentation for all AMP software. The contractor shall ensure that the AMP software is developed to be compatible with the current and any projected USTRANSCOM software configurations (e.g., United States Air Force (USAF) Standard Desktop Configuration (SDC), network, security, Internet browser, etc). The Government will furnish the contractor with the approved USTRANSCOM software configurations. The contractor shall provide a Software Requirements Specification (SRS) that describes the user's functional requirements in detail and in a form that will support design and development of software to satisfy these requirements. If the software release includes a database, the contractor also shall provide a Database Design Description and a Data Dictionary. The contractor shall ensure AMP data complies with USTRANSCOM's Distribution Process Information Exchange Data Model (DPIEDM). USTRANSCOM PMO will review and approve design documentation and the SRS prior to contractor implementation.

Deliverables: Database Design Description and Data Dictionary (if applicable), Software Requirements Specification

1.3.4.2 Task Area 4 Subtask 2 – Software Testing. For each scheduled release, the contractor shall support Government participation in test events that include, but are not limited to, Government Witness Testing (GWT) and User Acceptance Testing (UAT) of the software to ensure it is validated and verified against the Government provided requirements and problem reports. The purpose of GWT is to observe contractor testing of the software planned for use during UAT. The contractor shall identify and track deficiencies discovered during testing that involves Government participation. In accordance with PM and FM prioritization and PM direction, the contractor shall resolve these deficiencies and present another software version for either GWT or UAT.

The contractor shall prepare documentation that describes the developer's test methodology, presents the test cases, traces requirements from contractual documentation through to test cases, and provides status documentation in

accordance with the deliverable schedule in Paragraph 1.4. A test case will provide detailed test instructions, any pre-conditions or inputs, and expected results. The contractor shall conduct a Test Readiness Review (TRR) before GWT commences and an Operational Readiness Review (ORR) before UAT commences. The goals of these reviews are to confirm the readiness of the application and test infrastructure (e.g., test environment and documentation) to start each test event, to identify the proper exit criteria necessary to complete each test event, and obtain Government approval to proceed toward the next milestone leading ultimately to software fielding. The contractor shall provide a Software Test Report (STR) no later than five business days after each test event involving Government participation has been completed.

Once the software is delivered to the Government for UAT, the contractor shall not implement changes to the software baseline under test until the Government has completed (or postponed) testing, prioritized software or test problem reports, and has accepted the change(s) proposed to resolve the problem(s). After completion of UAT, the contractor shall conduct a Production Readiness Review (PRR) that demonstrates readiness of the application and infrastructure to support fielding to the production environment, and to obtain a fielding decision from the Government.

If the contractor uses automated test scripts to verify functional requirements, enhancements, or software problem fixes for a software version entering a scheduled test event involving Government participation, the contractor shall provide a user-readable version of the automated test script(s) and expected test result(s) for each test case; these shall be included in the Software Test Cases deliverable. The contractor shall provide the results of automated testing of the software build to be used at the start of scheduled test events, and any builds occurring during scheduled test events. The contractor shall include these automated test result(s) as an addendum to the STR.

Deliverables: Software Test Plan, Software Test Cases, Software Test Reports

1.3.4.3 Task Area 4 Subtask 3 – AMP Software Releases. During the period of performance of this Task Order, the contractor shall provide 1 major AMP release, 1 minor release, 1 scheduled maintenance release, and up to 12 emergency releases that may occur between regularly scheduled releases. The following pertains:

Major releases are releases that incorporate changes that impact the security or hardware architectures of the system, or include the implementation of a new operating system or database (other criteria may apply.) Each release must undergo IA review to determine the degree to which the changes incorporated into the software impact the security or hardware architectures of the system, or include the implementation of a new operating system, database, or interface (other criteria may apply.) This review is referred to as a major/minor release determination. Major releases do contain one or more changes that affect one or more of these features.

Version numbering for major releases affects the whole number to the left of the leftmost decimal point (e.g., 12.0.0, 14.0.0). Minor releases consist of functionality enhancements and may include fixes of software problems. Numbering for minor releases affects the middle digit of the software release (e.g., 12.1.0, 14.2.0). Maintenance releases consist of fixes of software problems only; numbering of maintenance releases affects only the right-most digit of the software release number (e.g., 12.1.1, 14.3.4). Versioning of emergency releases shall be accomplished by affixing a letter to the right-most digit of the affected release.

The contractor shall update the User Guide to provide USTRANSCOM functional personnel appropriate guidance for system operation.

At Government request, the contractor shall perform up to five demonstrations of software releases of any type at AMP IPRs and at AMP User Conferences. The contractor shall provide software releases per the release process addressed in the Government AMP Configuration Management Plan (CMP). The contractor also shall deliver software source code with each release. The contractor shall assist the Government in achieving software acceptance through the USTRANSCOM security certification and accreditation process by accomplishing tasks described in Paragraph 1.3.8.3. Several of the enhancements described in Paragraph 1.3.11 require the developer to deliver software releases, and the instructions of this paragraph shall apply to each paragraph below that requires a software release as a deliverable. Each software release may combine two or more enhancements, as determined by the AMP Configuration Control Board (CCB).

The contractor shall deliver a software Version Description Document (VDD), following the configuration management procedures described in Paragraph 1.3.10, and not later than the deliverable due date stipulated in Paragraph 1.4.

Deliverables: Software Release, Updated User Guide, Software Source Code, VDD

1.3.5 Task Area 5 – System Interface Support. The contractor shall support system interfaces as indicated in the following subtasks.

1.3.5.1 Task Area 5 Subtask 1 – System Interface Maintenance. The contractor shall provide system interface maintenance to include those changes required to correct performance of data exchange functions described in current system or software documentation. The contractor shall support the Government in initiating system interface development efforts to correct problems according to the priority established by the PM.

1.3.5.2 Task Area 5 Subtask 2 – System Interface Development and Modification. The contractor shall support the Government in engineering and modifying existing system interfaces to meet current and projected data exchange requirements. Interfaces may be required between systems of other Government agencies or commercial systems. The contractor shall develop or update the Interface Design Description (IDD), as required. The contractor shall analyze changes to system interfaces to include (but not be limited to) requirements analysis, clarification of the requirement with the originator, recommendations regarding feasibility and cost effectiveness, what computer resources and man-hours the project shall require, projected delivery date, and the consequences of the proposed change. The contractor shall support the Government in initiating system interface engineering and modification efforts to implement Baseline Change Requests (BCR) according to the priority established by the CMP and CCB. The contractor shall ensure that all interface engineering and modification efforts comply with DOD Directive 8320.2, Data Sharing in a Net-Centric DOD, DOD Net-Centric Data Strategy, and standards set forth in the USTRANSCOM Defense Transportation System (DTS) Enterprise Architecture (EA).

Deliverable: IDD

1.3.6 Task Area 6 – Maintenance.

1.3.6.1 Task Area 6 Subtask 1 – Software Maintenance.

1.3.6.1.1 AMP Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP. The contractor shall maintain the Federation data objects and run infrastructure, and adapt to changes in the component models. In addition, the contractor shall keep information found on the AMP webshare site current. These duties shall include keeping the web pages updated with the latest downloadable AMP software releases, sample data, and AMP User Group materials.

1.3.6.1.2 AMP-PAT Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP-PAT.

1.3.6.2 Task Area 6 Subtask 2 – System Maintenance.

1.3.6.2.1 AMP System Maintenance. The contractor shall provide on-going support to maintain normal system operations. Normal operation for the system is interpreted to mean that the system software is available except during periods of routine maintenance or when software is released. The PM, after coordinating with the functional users, will approve the timing of any non-emergency system downtime for hardware and software maintenance. The contractor shall restore the maintained software to normal operation whenever the contractor is informed such normal operation has been interrupted. Software maintenance also includes those changes that are required to correct the performance of functions described in existing system or software documentation.

1.3.6.2.2 AMP-PAT System Maintenance. The contractor shall provide on-going support to maintain normal system operations. Normal operation for the system is interpreted to mean that the system software is available except during periods of routine maintenance or when software is released. The PM, after coordinating with the functional users, will approve the timing of any non-emergency contractor downtime for hardware and software

maintenance. The contractor shall restore the maintained software to normal operation whenever the contractor is informed such normal operation has been interrupted. Software maintenance also includes those changes that are required to correct the performance of functions described in existing system or software documentation.

| **1.3.6.3** Reserved.

| **1.3.6.4** Reserved.

Deliverable: Program Metadata

1.3.7 Task Area 7 – System Administration. The contractor shall provide on-site SA support to USTRANSCOM functional users for the system. This includes the following activities:

- Plan, schedule and install new or modified hardware and software, to include system patches, updates, and enhancements for the system servers. Troubleshoot AMP installation problems.
- Support installation, optimization, backup, recovery, modification and upgrade of software. Debug AMP software and support testing of software releases (i.e., support of GWT and UAT).
- Monitor operational system performance and recommend possible improvements.
- Accomplish routine system maintenance functions running backups and coordinating hardware repair/replacement.
- Provide technical support for system reengineering efforts.
- Work with Government security and networking personnel on system-related issues.
- Support the Technical Assessment activities and provide required updates.

The contractor shall update the system administration manual to support the system. The contents of the manual shall include, but not be limited to, account administration; software installation; obtaining, generating, and updating reference files, shared drives, and web pages; troubleshooting and resolving operating system conflicts, maintaining logs, and creating reports, as required.

Deliverable: System Administration Manual

1.3.7.1 Task Area 7 Subtask 1 – AMP Federation Model User Training. The contractor shall provide AMP Federation Model training once per FY. Training shall be on the use of the AMP Federation modeling tools. USTRANSCOM will coordinate and provide the training classroom (including hardware) if such training is required. Training shall be consistent with industry standards and result in the trainees' full understanding of the capabilities and the designed use of the associated software applications and Graphic User Interfaces.

1.3.8 Task Area 8 – Information Assurance (IA). The contractor shall establish an IA Program to implement and sustain appropriate IA management, operational, and technical controls and processes as required to ensure compliance with DOD and Chairman Joint Chiefs of Staff (CJCS) requirements, and Joint Task Force – Global Network Operations (JTF-GNO) taskings. The contractor shall submit for Government approval an overarching security plan that describes their strategy for implementation of IA and Industrial Security requirements throughout the life of the contract. The contractor shall ensure that information system security engineering (ISSE) is employed to develop or modify any IA component of the system architecture. Such modifications will be made in compliance with all analogous or interfacing IA component(s) of the GIG Architecture and will be designed to make maximum use of the DOD enterprise IA capabilities and services. The contractor also shall support periodic Government inspections and reviews to ensure compliance with DOD IA requirements throughout the contract performance period. Contractor IA Program capabilities shall include but not be limited to processes and procedures for vulnerability management, patch management, incident response, Information Condition (INFOCON) response, application security configuration management, risk management, and situational awareness.

1.3.8.1 Task Area 8 Subtask 1 – IA Design. The contractor shall protect and prevent unauthorized access to Government sensitive unclassified and classified data and IT resources supporting the system. The contractor shall ensure appropriate IA controls are designed, developed and implemented to provide for non-repudiation, confidentiality, integrity, and availability of Government systems, applications, and data. The contractor shall

leverage, to the maximum extent possible, automated tools to identify and remediate vulnerabilities or weaknesses in the system design and coding that could be exploited or that may result in system or data compromise. The contractor shall work with other DOD activities and vendors as required to implement these IA controls. The contractor shall perform vulnerability management activities as part of all AMP development and sustainment. The contractor shall coordinate with the AMP PM to document the installation of vendor security patches or support Government development of a Plan of Action & Milestones (POA&M) when patches cannot be applied. In coordination with the PM, the contractor shall design, develop and implement secure AMP applications and configurations through applying applicable DOD security technical implementation guides (STIGs), checklists, vendor security guidance, industry best practices, and applicable vendor product security patches. The contractor shall ensure AMP applications are in compliance with DODI 8551.1 and leverage approved ports, protocols and services.

1.3.8.1.1 Security Engineering. The contractor shall evaluate AMP system components, applications, and operating systems to ensure security issues are identified and addressed. Contractor personnel assigned to perform this task shall be designated Information Assurance Technician Level I (IAT-I) to facilitate the design, development, and evaluation of AMP IA technical controls. The contractor shall provide copies of the required certification(s) applicable for IAT-I to the AMP PM and COR within six months of contract award.

1.3.8.1.1.1 Applicability. The contractor shall continue to monitor and analyze Information Assurance (IA) Vulnerability Management (IAVM) Notices, USTRANSCOM Security Notifications, United States Computer Emergency Readiness Team (US-CERT) Security Bulletins, and vendor security advisories to determine applicability to AMP.

1.3.8.1.1.2 Recommendations. The contractor shall analyze applicable security bulletins to determine system impact, identify mitigating factors, and develop recommendations to the Government regarding potential courses of action. Contractor recommendations shall be compliant with AMP, USTRANSCOM and DOD security requirements. The contractor shall ensure that patch deployments and other significant security activities are documented in the IMS. The contractor assigned to this contract shall maintain certification under the requirements of DOD 8570.01-M.

The contractor shall forward an initial analysis and assessment "quick-look" for high impact (risk) advisories (based on the Security Technical Implementation Guide (STIG) Finding Severity Category listed in the IA Vulnerability Advisories (IAVAs), IA Vulnerability Bulletins (IAVBs) and Technical Advisories (TAs)) to the PM and AMP Systems Engineer within 2 business days via Classified e-mail. All STIG Finding Severity Category I and II IAVAs, IAVBs and TAs are considered high impact. In addition, the contractor shall prepare an analysis for other than high impact advisories and provide it to the AMP Systems Engineer within seven working days via e-mail. The contractor also shall provide a summary of security analysis and assessment results during weekly teleconferences and an update in the program monthly report.

Deliverables: High Impact Risk Advisories, Other Risk Advisories, Security Summaries

1.3.8.2 Task Area 8 Subtask 2 – Security Testing. The contractor shall ensure appropriate security requirements are included as part of the AMP requirements traceability matrix and whenever possible, shall support Government Security Test and Evaluation (ST&E) in conjunction with scheduled system development and acceptance testing. As part of the contractor's change control process, the contractor shall ensure participation by the IA-qualified representative to evaluate the impact of each change on security. The contractor shall document the results of this evaluation. When directed by the PM, the contractor also shall test vendor security patches for AMP production systems and applications to assess their impact on system functionality prior to their installation.

1.3.8.3 Task Area 8 Subtask 3 – DOD Information Assurance Certification and Accreditation Process. The contractor shall assume responsibility for management and update of existing system security documentation that were developed to facilitate AMP's security accreditation in accordance with DODI 8510.01. The contractor shall perform security certification activities as required to maintain current system accreditation and support re-accreditation. The contractor shall support USTRANSCOM's use of the DOD Enterprise Mission Assurance Support Service (eMASS) system for automated accomplishment of the certification and accreditation process. The

contractor shall update eMASS as required and provide supporting IA documentation for upload as artifacts in eMASS.

As a minimum, the contractor shall ensure compliance with applicable provisions of DOD Directive (DODD) 8500.1, Information Assurance; DOD Instruction 8500.2, Information Assurance Implementation; DODD 8570.1, Information Assurance Training, Certification and Workforce Management; CJCS Manual 6510.01, Defense-in-Depth: IA and Computer Network Defense (CND); DODI 8520.2, PKI and Public Key (PK) Enabling; DODI 8551.1, Ports, Protocols, and Services Management (PPSM); DODI 8510.01, DOD Information Assurance Certification and Accreditation Process (DIACAP), and DOD 8570.01-M, Information Assurance Workforce Improvement Program.

AMP has been designated Mission Assurance Category (MAC) III classified for the purposes of applying IA controls.

The contractor shall develop and maintain the documentation listed below to support DIACAP accreditation decisions. Contractor IA personnel assigned to support the completion of the Certification and Accreditation documentation below shall be qualified as an Information Assurance Manager Level II (IAM-II), per DOD 8570.01-M. The contractor shall provide copies of the required certification(s) applicable for IAM-II to the AMP PM and COR within six months of contract award.

The Information Assurance and Industrial Security Plan (IA&ISP) shall serve as the overarching document. The contractor shall deliver the other documents listed below as appendices to the IA&ISP.

NOTE: Items marked by asterisks connote templates that the Government will provide for the contractor to complete.

High Impact Risk Advisories
Other than High Impact Risk Advisories
Security Summaries
Audit Design Artifact *
Cryptographic Subsystem Artifact *
IA Acquisition Artifact *
Identification and Authentication Subsystem Artifact *
Incident Response Plan (IRP) Artifact *
Interconnections Artifacts *
Personnel Security Artifact *
Remote Access Artifact Security *
Security Design Document (SDD) Artifact *
Security Test Plan (STP) Artifact *
Vulnerability Management Plan (VMP) Artifact *
Physical and Environmental Artifact *
System Classification Guide
System Security Policy
Risk Management Review Report

Deliverables: IA&ISP (and associated appendices)

1.3.8.4 Task Area 8 Subtask 4 – Information Assurance Training. Contract employees physically assigned to USTRANSCOM and USTRANSCOM Component Commands (TCC) at Scott AFB shall attend/complete security training as prescribed by DOD and USTRANSCOM/TCC instructions. At a minimum this includes: Employee Initial Security Training, Annual Security Awareness Training, Operations Security (OPSEC), DOD Antiterrorism Level 1 Training, Personally Identifiable Information (PII) Training and any Security Stand-Down Day Training scheduled by the Commander. Contract employees assigned elsewhere shall attend security training established by their respective government security offices and/or installations.

Deliverable: Contractor Security Training Documentation

1.3.8.5 Task Area 8 Subtask 5 – Information Assurance Workforce Improvement Program (IAWIP). The contractor shall:

- a. Ensure that personnel accessing information systems have the proper and current information assurance certification to perform information assurance functions in accordance with DOD 8570.01-M, IAWIP. The contractor shall meet the applicable information assurance certification requirements, including:
 - 1) DOD-approved information assurance workforce certifications appropriate for each category and level as listed in the current version of DOD 8570.01-M; and
 - 2) Appropriate operating system certification for information assurance technical positions as required by DOD 8570.01-M.
- b. Upon request by the Government, the contractor shall provide documentation supporting the information assurance certification status of personnel performing information assurance functions.
- c. Contractor personnel who do not have proper and current certifications shall be denied access to DOD information systems for the purpose of performing information assurance functions.

Deliverable: Contractor IAWIP Certification Documentation

1.3.9 Task Area 9 – Contingency Operations. The contractor shall support AMP PM development or revision of the System Contingency Management Plan. At its discretion, the AMP PM will provide drafts of this document upon which the contractor shall be requested to review and comment.

1.3.9.1 Task Area 9 Subtask 1 – Technical Assessment Documentation and Support Requirements. The contractor shall provide the necessary support, to include documentation and advice to meet the USTRANSCOM security and technical requirements of the USTRANSCOM Technical Assessment process.

Deliverable: Technical Assessment Documents

1.3.10 Task Area 10 – Configuration Management. This support is required to meet the DIACAP and USTRANSCOM technical and security requirements. The CM process facilitates orderly configuration identification, change identification and control, status reporting, and configuration auditing of product information for such beneficial purposes as to revise capability and improve performance, reliability, or maintainability; extend life; reduce cost; reduce risk and liability; or reduce defects. CM involves identifying the configuration items of products developed and delivered to the customer, systematically controlling changes to the configuration, maintaining configuration traceability, and minimizing adverse effects to AMP interfaces with external systems. The contractor's CM processes must complement the Government CM processes.

1.3.10.1 Task Area 10 Subtask 1 – Configuration Manager Responsibilities. The contractor's Configuration Manager shall develop a CMP and processes that are consistent with and complements the Government CMP and processes. The contractor's Configuration Manager shall establish and maintain the following:

- Baselines (versioning)
- Configuration identification
- Change control
- Configuration status accounting
- CM audits
- CM Repository
- Delivery Process

Deliverable: Configuration Management Plan

1.3.10.2 Task Area 10 Subtask 2 – Configuration Identification. The contractor shall provide configuration identification as specified in its CMP. This identification may include hardware configuration items and software configuration items. All configuration items must be uniquely identifiable by use of a configuration item number and nomenclature.

Deliverable: Updated Configuration Item Listings

1.3.10.3 Task Area 10 Subtask 3 – Change Control. The contractor shall provide change control for all AMP baselines and configuration items to include documentation, commercial off-the-shelf (COTS) software, application, source, and executable code. The contractor shall provide an automated configuration management tool to assist in this effort. The contractor shall allow Government web access to the contractor's CM tool to ensure Government oversight of the change process. This tool shall allow the Government to track change requests and problem reports and their status. Additionally, the contractor shall provide a process to allow AMP users to request software improvements and development of new AMP capabilities.

1.3.10.3.1 Evaluating Requested Changes. The contractor shall document the evaluation of all change requests and problem reports. Evaluations include, but are not limited to, requirements analysis, and clarification of the requirement with the originator, determining if the requirement is feasible, what computer resources and man-hours the change or resolution of the problem shall require, its adherence to standards, and the impacts of the proposed change or cure for the problem. In addition, the contractor shall ensure participation by a qualified IA representative to evaluate the impact on security of each change or problem cure. The contractor shall document the results of these evaluations and provide them to the AMP PM for evaluation.

Deliverable: Change Request Evaluation Reports

1.3.10.3.2 Reserved.

1.3.10.3.3 Configuration Status Accounting. The contractor shall provide status of all baselines, configuration items, and all outstanding change requests and software problem reports.

Deliverable: Status Accounting Reports

1.3.10.3.4 CM Audits. The contractor shall conduct a physical configuration audit (PCA) and functional configuration audit (FCA) of each code baseline/release delivered to the PMO.

A PCA examines the actual configuration of an item being produced. It verifies that the related requirements, design and test documentation matches the item being released as specified in the contract.

The FCA is the formal examination of the as-tested characteristics of a configuration item (hardware and software) with the objective of verifying that actual performance complies with design and interface requirements in the functional baseline. It is essentially a review of the configuration item's test/analysis data, including software unit test results, to validate the intended function or performance stated in its specification is met. For the overall system, this would be the system performance specification.

The contractor shall confirm that the contractor CM team has performed both a PCA and an FCA by adding the following statement to the transmittal document when any software version is released to the Government: "The contractor CM team has completed both a PCA and an FCA for the software version described in this letter of transmittal."

1.3.10.3.5 Delivery Process. All deliverables shall be made electronically via e-mail to USTCJ6-P-CM@USTRANSCOM.MIL . If the contractor submits a deliverable via e-mail and its delivery fails, the contractor shall provide a Secure File Transfer Protocol (SFTP) site that allows the Government CM to download the deliverable. If a site is not available or not feasible, the Government will make one available to the contractor. In case no sites are available, the Contractor shall deliver the deliverable via compact disk or digital videodisk (CD/DVD). The CD/DVD must be properly labeled to identify the content to include version number and date.

1.3.11 Task Area 11 – Enhancements. The contractor shall provide the following new software and enhancements to the existing AMP application. Paragraph numbers below are consistent with those found in the basic Indefinite Delivery (ID) / Indefinite Quantity (IQ) contract, HTC711-10-D-S002, but may not sequentially follow each other due to changes in functional priority. The paragraph numbering for those enhancements that do not appear in the basic contract sequentially follow the paragraph numbers for enhancements listed in Task Order 0002 of this contract.

1.3.11.21.2 Joint Mobility Closure Estimator Integration (JMCE). The contractor shall develop the capability to import data from an AMP Federation run into the JMCE modeling tool.

Deliverable: Software Release

1.3.11.22 Surface Modeling. The contractor shall design, develop, and test the following surface modeling tasks into AMP.

1.3.11.22.1 The contractor shall provide a single, merged GUI for all model inputs. The developer shall provide a single GUI for critics, reporting methodologies, metrics, Master Scenario Events List (MSEL), and Route Viewing.

1.3.11.22.2 The contractor shall provide the capability to archive runs of record.

1.3.11.22.3 The contractor shall develop the capability within AMP to model a port that performs the combined functionality of both an airport and a seaport.

1.3.11.22.4 The contractor shall provide a construct for enhanced cargo detail editing with the AMP Requirements Editor. This new capability shall permit the user to edit Levels 3 and 4 cargo details directly in the Requirements Editor.

1.3.11.22.5 The contractor shall develop the capability for the model to load at Level 4 detail.

1.3.11.22.6 The contractor shall develop the capability to model operating hours defined in local time zones.

1.3.11.22.7 The contractor shall provide integration of all Surface Modeling functionality within the AMP Federation in order to properly model end-to-end operations with all model components.

1.3.11.22.8 The contractor shall support multiple runs in a Virtual Machine (VM), as well be able to view the run results without replaying the run.

The contractor shall deliver an AMP application containing the surface distribution modeling attributes described in Paragraph 1.3.11.22 and its subparagraphs.

Deliverable: Software Release

1.3.11.23 AMP MIDAS Support and Integration. The contractor shall integrate enhancements to the MIDAS application into the AMP Federation. The AMP developer shall coordinate with the MIDAS developer to understand the new capabilities provided by each MIDAS release, support the integration of new MIDAS releases into the AMP Federation, maintain file writers in AMP to support new releases of MIDAS, and work with the MIDAS developer to understand new inputs to MIDAS. Expected MIDAS releases include enhanced support for theater air/sealift modeling, and a more detailed supply plan. MIDAS requirements and priorities shall be determined at the annual AMP User's Group. The Government will coordinate with the MIDAS PMO for MIDAS enhancements to support the AMP Federation.

Deliverable: Software Release

1.3.11.24 AMP ELIST Support and Integration. The contractor shall integrate enhancements to the ELIST application into the AMP Federation. The AMP developer shall coordinate with the ELIST developer to understand the new capabilities provided by each ELIST release, support the integration of new ELIST releases into the AMP

Federation, maintain file writers in AMP to support new releases of ELIST, and work with the ELIST developer to understand new inputs to ELIST. Expected ELIST releases include enhanced support for theater air/sealift modeling, and a more detailed supply plan. ELIST requirements and priorities shall be determined at the annual AMP User's Group. The Government will coordinate with the ELIST PMO for ELIST enhancements to support the AMP Federation.

Deliverable: Software Release

1.3.11.25 AMP Reports/Results. The contractor shall continue to design, develop and test feedback of interim and final AMP Federation results. This includes reports, results viewing and graphs.

1.3.11.25.1 Scenario Reports. The contractor shall develop additional reports to support inventory levels, demand projections, and supply chain statistics, asset utilization, unit closure and port utilization.

Deliverable: Software Release

1.3.11.26 AMP Critics. The contractor shall continue to design, develop, and test AMP 'Critics.' These include pre-run checks on AMP setup data and post-run checks on Federation results.

Deliverable: Software Release

1.3.11.27 AMP Mapping Support. The contractor shall continue to design, develop, and test mapping support in AMP. The contractor shall keep AMP up-to-date with OpenMap releases and will continue to add key setup and run time information on the map.

Deliverable: Software Release

1.3.11.27.1 Requirement and Cargo Increment Number (CIN) Map Enhancements. The contractor shall develop functionality to provide a Plan Versus Actual (PVA) graphical display on a map for deliveries of passengers, Unit Equipment (UE) and sustainment (resupply, ammunition and POL). On a map that includes selectable destinations from the TPFDD and sustainment destinations from the AMP sustainment setup GUI, the user will be able to toggle on individual destination locations and at that location vertical bars will appear for PAX, UE and various types of sustainment (the user can toggle which destinations and what commodities are shown). One bar will show the requirement up to that point of the deployment and one bar will show deliveries of that commodity up to that point in time as indicated on a horizontal slider bar. The PVA bars will change over the deployment time period as controlled by a horizontal slider bar. The contractor shall also make the theaters selectable to enable the user to select and view a PVA for a particular theater.

Deliverable: Software Release

1.3.11.28 AMP-PAT Model, MIDAS, ELIST and Land, Air and Sea Warfight Model Federation Integration. The contractor shall continue to support integration of key models in AMP and keep the Federation up-to-date with AMP-PAT Model, MIDAS, ELIST and appropriate land, air and sea warfight model releases.

1.3.11.28.1 AMP-PAT Model Integration. The contractor shall develop the functionality to dynamically integrate the SST into the AMP Federation.

Deliverable: Software Release

1.3.11.29 AMP CONUS-ELIST-MIDAS Integration. The contractor shall continue to enhance, develop, and test integration of CONUS-ELIST with MIDAS in AMP. This task will be bounded by the ability of the MIDAS model to dynamically exchange data with CONUS-ELIST.

Deliverable: Software Release

1.3.11.32 (Optional Task) Collect and Analyze Data. The contractor shall develop software that will automatically organize and insert into AMP cleansed, historical sustainment demand and transportation requirements data from the Global Decision Support System (GDSS), Global Air Transportation Execution System (GATES), Worldwide Ports System (WPS), Strategic Distribution Database (SDDDB), and Integrated Data Environment (IDE) systems/sources. The user will extract the required data from these systems into a file that then will be imported into AMP.

Deliverable: Software Release

1.3.11.61 Cost Modeling. The contractor shall provide a capability for adding cost factors that will allow tracking of the costs for each movement. This would include, but not be limited to, costs associated with loading/offloading, transport, and vehicle request.

Deliverable: Software Release

1.3.11.62 (Optional Task) End To End Modeling (ETEM). The contractor shall research, develop, and deliver software and documentation for an end-to-end modeling capability of strategic and regional/tactical simulation and optimization that will operate within the AMP Federation, as well as improve the analysis capability of the existing simulation models. The contractor also shall research advanced capabilities that can support very large optimization problems. This research and development effort will be split into two years; FY11 will be primarily focused on research, design, and initial development; FY12 will be focused on final development, integration, testing, and software delivery.

1.3.11.62.1 Develop Strategic Optimization/Scheduling Model. The contractor shall conduct research and development activities to determine enhanced methods to conduct programmatic analysis to include optimal modeling techniques to support optimized deployment and distribution movement analysis, increased analyst effectiveness and decreased model execution time for strategic modeling. The contractor shall create and deliver an enhanced and optimized Origin to Destination optimal scheduler prototype by enhancing the heuristics within the current MIDAS model and adding an optimization routine that would reduce the search space for the heuristics, and support a modeling nodal link auto-setup for the model. The optimization shall provide optimal route sets and quantities of cargo and passengers that should flow through these route sets to the MIDAS scheduler, which would continue to schedule the strategic flow to the theater. The enhanced ETM scheduler shall provide the initial optimized plan that would feed the simulation startup conditions.

1.3.11.62.1.1 Scope the Problem. The contractor shall research the data and level of fidelity required to create the enhanced strategic scheduler (vehicles, ports, cargo, etc.), and consolidate the data to support cost and constraint equations. The contractor shall establish the feasibility of proposed solution(s), identifying constraints, and determining whether (and level of) multiple optimization passes are required. The contractor shall research and establish objective formulas and evaluate options to support weighted, multi-objective function capability (closure time, cost, risk, lateness, etc.). The contractor shall document the data, preliminary design, and constraints of the alternatives in the Concept Document deliverable. The contractor shall determine and document the data required for the strategic scheduler, compare the required data to the available strategic data from AMP, and identify any shortfalls. The contractor shall document the planned approach in the Concept Document deliverable. The FM and PM will review and approve this Document and will decide as to the most favorable approach.

Deliverable: Strategic Optimization/Scheduling Model Concept Document

1.3.11.62.1.2 Develop Functional Design Specification. The contractor shall document the strategic model in draft specification and design documents. The contractor shall describe the effectiveness and efficiency of 'look ahead' for strategic scheduling, when/if user feedback is appropriate to refine the scenario, the inclusion of sustainment flow for multiple theaters with deployment flows, and identification of points to re-optimize the strategic network.. The contractor shall describe how multiple objective functions and their interaction are to be measured. The contractor then shall document the approach used to develop the tool in the Design Specification. The PM will review and approve the Design Specification before strategic model development begins.

Deliverable: Draft Strategic Model Design Specification

1.3.11.62.1.3 Optimization Process. The contractor shall begin development of an ETEM strategic scheduler that will create an enhanced heuristics algorithm that will support a mode and port selection process and speed up the current MIDAS heuristics and model setup. The contractor shall ensure that these enhanced heuristics provide the optimal set of airports and seaports to be used for the multi-mode/port selection process for the given scenario. The software to be developed during FY12 shall incorporate the capabilities outlined in paragraph 1.3.11.62.1.3 and its sub paragraphs.

1.3.11.62.1.3.1 Implement Model Generator. The contractor shall build an interface to handle data for the optimization solver, and incorporate sustainment inventory optimization, such as the location and levels of stock, refreshing stock during execution, etc.

1.3.11.62.1.3.2 Collect Data for the Optimization Model. The contractor shall develop the capability to stop the model, collect necessary data, and provide the data to the optimization model.

1.3.11.62.1.3.3 Disseminate Optimization Model Results. The contractor shall develop the infrastructure to package the optimization results and provide the data to the AMP model.

1.3.11.62.1.3.4 Development of 2-way Communications Component. The contractor shall provide the optimized strategic solution to AMP in a suitable format (to include the port, mode, flow, period) for use in the heuristic scheduler.

1.3.11.62.1.3.5 Development of Model Controller for AMP Integration. The contractor shall deliver the capability for full control of the strategic optimization/scheduling model in the Model Controller.

1.3.11.62.1.3.6 Develop User Front End. The contractor shall build an interim user interface to set up various look-ahead combinations, effect model inputs, establishing objective function formulation of multiple objectives, and monitoring the optimization results.

1.3.11.62.1.4 Update Model State with Optimization Model Results. The contractor shall use the optimization results to make appropriate updates to the model state. The contractor shall document how the optimization results update the model state in the Strategic Model Design Specification.

1.3.11.62.2 Develop Regional/Tactical Optimization Models. The contractor shall conduct research and development activities to determine enhanced methods to conduct programmatic analysis to include optimal modeling techniques to support optimized deployment and distribution movement analysis, increased analyst effectiveness and decreased model execution time for regional/tactical models. The contractor shall create and deliver Origin to port of embarkation (POE) and port of debarkation (POD) to Destination regional prototype optimization models for the front end and back end of the End-to-End process that supports the scheduling of non-strategic simulated operations.

1.3.11.62.2.1 Scope the Problem. The contractor shall research the data and level of fidelity required to create the enhanced regional/tactical scheduler, and consolidate the data to support cost and constraint equations. The contractor shall determine appropriate periods (how often) and depth (how far) to look-ahead to solve regional scheduling problems, and research the appropriate scheduling scheme (heuristics or optimization). The contractor shall document data, constraints, and preliminary model design. The contractor shall determine and document the required data for both the Origin to POE and POD to Destination planners, compare the required data to the available regional schedule data from AMP and identify any shortfalls. The contractor also shall document the planned approach in the Concept Document deliverable. The FM and PM will review and approve this Document and will decide as to the most favorable approach.

Deliverable: Regional/Tactical Optimization Scheduling Model Concept Document

1.3.11.62.2.2 Develop Functional Design Specification. The contractor shall document the regional/tactical model in draft specification and design documents. The contractor shall describe the effectiveness and efficiency of 'look ahead' for regional/tactical scheduling, the item movement data (mode, routes) to be used, when/if user feedback is

appropriate to refine the scenario, the inclusion of sustainment flow for multiple theaters with deployment flows, and identification of points to re-optimize the regional/tactical network.. The contractor shall describe how multiple objective functions and their interaction are to be measured. The contractor then shall document the approach used to develop the tool in the Design Specification. The PM will review and approve the Design Specification before development of the regional/tactical model begins.

Deliverable: Draft Regional/Tactical Model Design Specification

1.3.11.62.2.3 Optimization of Node and Mode Selection. The contractor shall deliver a regional optimized ETEM planner that will use optimization techniques and enhanced algorithms to support the origin to POE and POD to destination optimization for the regional flow of requirements. The software to be developed during FY12 shall incorporate the capabilities outlined in paragraph 1.3.11.62.2.3 and its sub paragraphs.

1.3.11.62.2.3.1 Develop Method for Strategic and Regional Optimization Schemes to Interact and Communicate. The contractor shall align the solution of the strategic end-to-end optimization results with the CONUS and theater regional components.

1.3.11.62.2.3.2 Implement Model Generator. The contractor shall build an interface to handle data for the optimization solver, and build a feasible schedule from the flow solution (by heuristics or other method).

1.3.11.62.2.3.3 Collect Data for the Optimization Model. The contractor shall develop the capability to stop the model, collect necessary data, and provide the data to the optimization model.

1.3.11.62.2.3.4 Disseminate Optimization Model Results. The contractor shall develop the infrastructure to package the optimization results and provide the data to the AMP model.

1.3.11.62.2.3.5 Development of 2-way Communications Component. The contractor shall provide the optimized strategic solution to AMP in a suitable format (to include the port, mode, flow, period) for use in the heuristic scheduler. The contractor shall coordinate the optimal flow with AMP implementation, providing data for AMP to execute and reporting appropriate information to the strategic planning module.

1.3.11.62.2.3.6 Development of Model Controller for AMP Integration. The contractor shall deliver the capability for full control of the regional/tactical optimization/scheduling model in the Model Controller.

1.3.11.62.2.3.7 Develop User Front End. The contractor shall build a user interface to set up various look-ahead combinations, effect model inputs, establishing objective function formulation of multiple objectives, and monitor the optimization results.

1.3.11.62.2.4 Update Model State with Optimization Model Results. The contractor shall use the optimization results to make appropriate updates to the model state. The contractor shall document how the optimization results update the model state in the Regional/Tactical Model Design Specification.

1.3.11.62.2.5 Validate Model Results and Overall Algorithmic Performance. The contractor shall validate the model results and overall performance, to include improvements to the code for speed, reduced memory requirements, and key information used by the optimization module.

1.3.11.62.3 Improve Analysis of Existing Simulation Models through Simulation and Optimization. The contractor shall design the model to automatically search the feasible solution space using a genetic algorithm or some other appropriate search technique to create and execute a design of experiment that would lead to an optimal answer for certain study types. The intent of this is to optimize the analyst's time needed to conduct the required model runs.

1.3.11.62.3.1 Input Parameter Selection. The contractor shall deliver and document a model to determine the best combination of model input parameters using a genetic algorithm or other appropriate search technique to automatically set up and execute the model runs required to find an optimized solution.

1.3.11.62.3.2 AMP Runner. The contractor shall provide the documentation of the modeling optimization process to include construction of appropriate fitness functions, parameters that may be chosen to vary and their possible ranges, and other components of the simulation optimization process. The contractor shall specify how the model will optimize the simulation process.

1.3.11.62.3.2.1 AMP Runner: Design Specification. The contractor shall deliver appropriate specification documentation on the analysis of the model's performance and algorithm, and develop and document a genetic algorithm (or other search scheme) to provide an intelligent search method within the search space.

Deliverable: Draft Simulation Optimization Design Specification

1.3.11.62.3.2.2 AMP Runner: GUI Capability. The contractor shall design a GUI to enable the setup of search space parameters, fitness measure, and document the code and approach with key information used by the optimization module in the Design Specification.

1.3.11.62.3.2.3 AMP Runner: Implementation. The contractor shall design and begin development of a distributed running capability that will 'farm out' AMP runs on available machines or threads, use a database to support multi-run results, and improve the code for speed and reduced memory requirements.

1.3.11.62.4 Research and Develop a Scalable Optimization Prototype. The contractor shall develop and deliver a VLO Survey and Architecture Design Report and begin development of a software prototype that can be scaled to support very large optimization (VLO) problems.

1.3.11.62.4.1 Research Current Methods and Technologies. The contractor shall survey and research current methods and technologies that support the architecture to solve VLO problems. The contractor shall include the methodology and results of its survey and research efforts, and its design for an architecture suitable to support VLO problems, in the VLO Survey and Architecture Design Report. The PM will review and approve the VLO design contained in this Survey and Design Report before development of the scalable optimization prototype begins.

Deliverable: VLO Survey and Architecture Design Report

1.3.11.62.4.2 Develop a Scalable Optimization Prototype. The contractor shall document and begin development of a scalable software optimization prototype for VLOs using existing hardware, develop administrative tools to adjust settings of prototype optimization capabilities, develop and test a conceptual client front end GUI, and test optimization prototype performance, to include scalability parameters, hardware sensitivity, and software changes. The contractor shall document the prototype in the Architecture Document deliverable.

1.3.11.63 (Optional Task) Distribution Performance Nodal Model (DPNM). DPNM shall provide a highly-configurable, agile capability to model, simulate, analyze, and report metrics for the complex and detailed business processes within a distribution center to support improved decision making for resource acquisition and allocation, stock placement, nodal infrastructure requirements, and sustainment policies. The contractor shall deliver a final project report that contains the results of the DPNM task efforts, including code and system status, conclusions, and recommendations.

Deliverable: Final Project Report

1.3.11.63.1 Integrate the Logistics Process Analysis Tool (LPAT) into the AMP Federation. The contractor shall integrate the LPAT modeling capability into the AMP Federation of models. The contractor shall provide the capability for LPAT to be easily integrated into the AMP Federation and run seamlessly with the other model federates. The contractor shall ensure that the models exchange data back and forth correctly, and that the output from LPAT is included in the overall Federation output files, reports, and graphs. The contractor shall submit a DPNM Software Design Specification that addresses the integration of the LPAT Tool into the AMP Federation.

Deliverables: Integrated DPNM Software Design Specification, Software Release

1.3.11.63.2 Prototype Nodes. The contractor shall create a collection of prototype distribution nodes. These prototypes will enhance the USTRANSCOM modeling capability.

1.3.11.63.2.1 The generic node prototypes shall include:

- Theater Consolidation Shipping Points (TCSP)
- Container Consolidation Points (CCP)
- Inventory Control Point (ICP)
- Warehouses
- Material Processing Centers (MPC)
- Deployable Depots
- Joint Task Force Port Opening operations.

1.3.11.63.2.2 The specific node prototypes shall include (potential sites):

- Large Warehouse/CCP: (Defense Depot Susquehanna, Pennsylvania (DDSP))
- Medium Warehouse: (Defense Supply Center, Richmond, Virginia (DSCR))
- CCP (Ocean Service): (Norfolk Container Freight Station (CFS))
- TCSP: (Germersheim, Germany Defense Distribution Center (DDDE))

Deliverable: Prototype Node Data for DPNM

1.3.11.63.3 Validate the Model Results and Performance. The contractor shall test the model with appropriate prototype node data to ensure proper modeling and functionality of node constructs. The contractor shall produce a Test Plan and test the model in conjunction with the AMP Federation of tools to ensure proper import and export of data in the end-to-end modeling. The output and operational characteristics of the model will be presented to a panel of Subject Matter Experts for validation of the process and outputs. The contractor shall produce a Test Report that documents the results of the test, including performance against the performance criteria established in the Test Plan.

Deliverables: Test Plan, Test Report

1.4 Deliverables. The contractor shall provide all deliverables electronically to the PM; the deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software, with the exception of source code, which the contractor shall provide in native code language. The contractor shall upload files directly into the USTRANSCOM-provided provided Joint Deployment Planning and Analysis Center webshare. If the contractor is unable to load the deliverable file(s) on the webshare, then the contractor shall provide a soft copy of each deliverable to each of the following organizational e-mail accounts: ustcj6-p-cm@ustranscom.mil and ustcj6-pc-ms@ustranscom.mil. Should this second method of transmittal prove unsuccessful, the contractor shall provide the required deliverables on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. "Format", as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Due Date
1.3.1.1	TOMP	Government-Determined	30 calendar days after Task Order award; Updates due 30 calendar days after receipt of each subsequent Task Order award	15 calendar days from receipt of Government comments
1.3.1.2	MSR	Government-Determined	N/A	10 th calendar day of each month; Final to be

				provided NLT the last day of the contract
1.3.1.3	Presentation Materials, IPR Meeting Minutes and Slides	Government-Determined	Presentation Materials due 2 days prior to IPR	5 days after IPR
1.3.1.4	IMS	Contractor and Government-Determined	10 days after Task Order award; Updated monthly (include with MSR) or when schedule changes	5 calendar days from receipt of Government comments
1.3.1.6	Variance Report	Contractor-Determined	N/A	As applicable
1.3.4.1	Database Design Description	Contractor-Determined Format	NLT 45 calendar days prior to scheduled initial delivery of software; One Soft Copy (e-mailed)	NLT 10 days after receipt of Government comments
1.3.4.1	Software Requirement Specification (SRS)	Contractor-Determined Format	NLT 30 calendar days prior to scheduled initial delivery of software	NLT 10 days after receipt of Government comments
1.3.4.1	Data Dictionary	Contractor-Determined Format	NLT 30 calendar days before scheduled initial delivery of software	NLT 10 days after receipt of Government comments
1.3.4.2	Software Test Plan	Contractor - Determined Format	30 calendar days before scheduled initial delivery of software	NLT 10 calendar days after receipt of Government comments
1.3.4.2	Software Test Cases	Contractor - Determined Format	30 calendar days before initial delivery of software	NLT 10 calendar days after receipt of Government comments
1.3.4.2	Software Test Reports	Contractor - Determined Format	N/A	NLT 7 calendar days following completion of system test
1.3.4.3	Software VDD	Contractor-Determined Format	NLT 60 calendar days prior to scheduled initial delivery of software	At ORR
1.3.4.3, 1.3.11 and subparas	Software Release	Contractor-Determined Format	Initial delivery at scheduled Production Readiness Review (PRR)	Final delivery at scheduled Operational Readiness Review (ORR), or at Government's request, end of performance period
1.3.4.3	User Guide	Contractor-Determined Format	Updates due 20 calendar days prior to major software release	10 calendar days after receipt of Government comments
1.3.4.3	Software Source Code	Contractor-Determined in Native Format	N/A	5 days following ORR
1.3.5.2	IDD	Contractor-Determined Format	NLT 40 calendar days before implementation date of release containing modified or new interface	NLT 10 calendar days after receipt of Government comments
1.3.7	System Administration	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments

	Manual			
1.3.8.1.1.2	High Impact Risk Advisory	Contractor-Determined Format	N/A	NLT 2 days following release of IAVA, IAVB, or TA
1.3.8.1.1.2	Other Risk Advisory	Contractor-Determined Format	N/A	NLT 7 days following release of IAVA, IAVB, or TA
1.3.8.1.1.2	Security Summary	Contractor-Determined Format	N/A	During weekly teleconferences; updates in MSR
1.3.8.3	IA&ISP and appendices	Government-Determined Format	Updates as required by the Government	NLT 10 days after receipt of Government comments
1.3.8.4	Contractor Security Training Completion Documentation	Government-Determined Format	N/A	Upon completion of training
1.3.8.5	Contractor IAWIP Certification Documentation	Vendor-Determined Format	N/A	Produced Upon request of the Government
1.3.9.1	Technical Assessment Documents	Government-Determined Format	Upon Government request	5 days after receipt of Government comments
1.3.10.1	Configuration Management Plan	Contractor-Determined Format	Update as required by the Government	NLT 10 calendar days after receipt of Government comments
1.3.10.2	Updated Configuration Item Listings	Contractor Determined Format	NLT 60 calendar days prior to end of performance period for this Task Order	NLT 10 calendar days after receipt of Government comments
1.3.10.3.1	Change Request Evaluation Report	Contractor Determined Format	N/A	NLT 15 days following receipt of change request
1.3.10.3.3	Status Accounting Reports	Contractor Determined Format	Monthly, with the MSR	NLT 5 calendar days after receipt of Government comments
1.3.11.62.1.1	Strategic Optimization/Scheduling Model Concept Document	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.1.2	Draft Strategic Model Design Specification	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.2.1	Regional/Tactical Optimization Scheduling Model Concept Document	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.2.2	Draft Regional / Tactical Model Design Specification	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments

1.3.11.62.3.2.1	Draft Simulation Optimization Design Specification	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.4.1	VLO Survey and Architecture Design Report	Contractor-Determined Format	NLT 9 September 2011	NLT 10 business days following receipt of Government comments
1.3.11.63	Final Report	Contractor-Determined Format	NLT 9 September 2011	NLT 10 days following receipt of Government comments
1.3.11.63.1	Integrated DPNM Software Design Specification	Contractor-Determined Format	NLT 31 May 2011	NLT 10 days following receipt of Government comments
1.3.11.63.2.2	Prototype Node Data for DPNM	Contractor-Determined Format	NLT 15 August 2011	15 September 2011
1.3.11.63.3	Test Plan	Contractor-Determined Format	NLT 15 July 2011	NLT 5 days of receipt of Government comments
1.3.11.63.3	Test Report	Contractor-Determined Format	N/A	NLT 30 September 2011
4.4.1	Trip Report	Government-Determined Format	N/A	5 days after completion of travel

*Major or minor release: Major releases are releases that impact the security or hardware architectures of the system, or include the implementation of a new operating system or database (other criteria may apply.) This is the reason each release must undergo IA review for major/minor release determination. Numbering for major releases affects the whole number to the left of the leftmost decimal point (e.g., 12.0.0, 14.0.0). Minor releases consist of functionality enhancements and may include fixes of software problems. Numbering for minor releases affects the middle digit of the software release (e.g., 12.1.0, 14.2.0). Maintenance releases consist of fixes of software problems only; numbering of maintenance releases affects only the right-most digit of the software release number (e.g., 12.1.1, 14.3.4).

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Develop and Deliver IMS; Deliver Software Release, Updated User Guide, Software Source Code, VDD; Develop, Update & Provide Architecture Documents; Develop, Update & Provide IA&ISP (and associated appendices)	1.3.1.4, 1.3.4.3, 1.3.6.3, 1.3.8.3	Documents: No more than one (1) late delivery of draft and no more than 5 days late. Documents should contain no more than 1 critical or more than 4 substantive comments per document. No more than 2 sets of revisions/corrections with all revisions/corrections accomplished or incorporated by due date. (A second “set” may be necessary should Government comments be required on the second draft (or “final”) delivery in response to the first set of Government comments.) Software: Delivered on time, with no more than 1 planned version delivered no more than 5 days beyond ORR (according to contractor- and Government-agreed schedule), with no more than 2 Priority 1 problem reports, 4 or fewer Priority 2 problem reports, 6 or fewer Priority 3 or below problem reports. All Priority 1 and 2 and 50% or more of the Priority 3 problem reports

		submitted during UAT resolved and operational software delivered on time, according to contractor- and Government-agreed schedule, with no more than 1 planned version delivered no more than 2 days beyond PRR, according to contractor- and Government-agreed schedule.
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2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). GFE listed in the table below will be used to support the AMP tasks to be performed at the contractor's site. USTRANSCOM will maintain all GFE. The USTRANSCOM objective is to accomplish required maintenance within 48 hours of receipt at USTRANSCOM and to return the GFE to the contractor via overnight delivery. The Government will provide the equipment and leased line to support the Secure Internet Protocol Router Network (SIPRNET) connection in support of the secure network requirement described in Paragraph 5.17 of this PWS. The Government will provide the latest version of the following documents to the contractor:

- DOD 5200.1-R, Information Security Program
- DODI 8510.01, DOD Certification and Accreditation Process, November 28, 2007
- DOD Directive 8500.01E, Information Assurance
- DOD Instruction 8500.2, Information Assurance Implementation
- DIACAP Artifact Templates
- System Classification Guide
- System Security Policy
- Risk Management Review Report
- MIL-STD 3022, Documentation of Verification, Validation, and Accreditation (VV&A) For Models And Simulations, 28 Jan 2008
- USTRANSCOM Pamphlet 33-2, Communication Guide
- DOD Instruction 5000.61, DOD Modeling and Simulation (M&S) Verification, Validation, and Accreditation (VV&A)
- Government CMP
- Government Contingency Management Plan (discretionary)
- USTRANSCOM PMO Requirements Management Plan

GOVERNMENT FURNISHED EQUIPMENT (GFE) LISTING

Serial Number	Part Number	Model Number	Model Description
23579681	61000034D2	CPU	Gateway P4 1400
031C16C7	61000033J9	SUN	18.2 GB Hard Drive
045H2C5A	610000341P	SUN	ULTRA 60
219V00AE	610000365L	SERVER	SUN FIRE 880
450G4023	61000035ZH	TAPE DRIVE	SUN External
602F0284	610000082X	SUN	ULTRA 1
628G3304	6100003250	SUN	Tape Drive

7WF16B1		SERVER	DELL 6850 POWEREDGE SERVER
9429FR3687	61000033YI	SUN	Monitor
9502FR4029	61000008II	SUN	Monitor
DZKWN41		CPU	Dell Precision 650 (Strongbad)
TW22530559		MONITOR	HP 17" Flat Panel
27645944	610000367D	CPU	Gateway E6000 P4 2400
201003317	61000035T4	MONITOR	NEC Flat Panel 18"
FBKYRF1		WORKSTATION	Dell Precision 690 (Fabfour)
MUL8006A0045134	61000037MA	MONITOR	Gateway (Wolverine)
85SVT91		WORKSTATION	Dell Precision 670 (Wolverine)
24682585	610000367D	PC	Gateway P4 1400
MCOC95364663477C1C5L		MONITOR	Dell 20" LCD (Fabfour)
962R6B1		Disk Array	Dell/EMC ax150 RAID Array
MUL8006A0045628?	61000037ML	MONITOR	Gateway (Strongbad)
C8KQ6B1	26639930989	SERVER	DELL 6850 POWEREDGE SERVER

3.2 Facilities. No facilities specified.

4.0 GENERAL INFORMATION

4.1 – 4.2 All provisions of the Contract Level PWS apply.

4.3 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB. However, to accommodate the contractor's on-site support personnel, the Government will provide controlled working space, phone, computer, fax, and connections to the NIPRNET or SIPRNET, as required, at no cost to the contractor for one FTE.

4.4 Travel. Performance under this task order shall require contractor travel within and outside the Continental United States (OCONUS). The table below lists anticipated travel requirements. The Government will reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). All contractor travel shall be coordinated with and validated by the PM prior to incurring any travel expenses. Travel requests shall be submitted in writing at least five (5) business days in advance from the travel commencement date shall consist of:

- Title, Purpose/Objective, Expected Outcome
- Date, Time (window), and Location
- Proposed Itinerary
- Proposed Meeting/Activities Agenda
- Number of Contractor Participants
- Desired Government Participants
- Requested Government Support
- Estimated Costs

The contractor shall identify personnel who will be traveling in sufficient time to obtain the lowest possible rates for airfare, rental car and lodging. Contractor invoices (along with associated receipts) shall support all travel reimbursement requests. The Government will not reimburse local travel and related expenses to the contractor for daily travel to or from the place of performance stipulated in each individual task order. Contractors shall not use General Services Administration city pair contracts.

ANTICIPATED CONTRACTOR TRAVEL

For estimating purposes, the Government anticipates the following trips (estimates include travel days) during the period of performance:

Origin	Destination	Duration (days)	Trip Description	No of People	Trips
Contractor location, if applicable	Scott, AFB	1	Kickoff	3	1
Contractor location, if applicable	Wash DC	2	User Group Meeting (UGM)	4	1
St. Louis, MO	Wash DC	2	UGM	1	1
Contractor location, if applicable	Wash DC	2	AMI Support	4	1
Contractor location, if applicable	Scott, AFB	1	IPR	3	2
St. Louis, MO	Contractor location, if applicable	2	Design Meeting	2	2
Wash DC	Contractor location, if applicable	2	Design Meeting	1	1

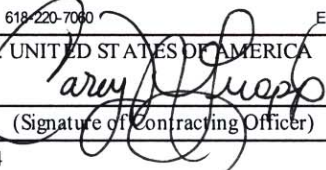
4.4.1 Trip Report. The contractor may be required to prepare and submit a trip report, including meeting minutes if applicable, following the conclusion of travel to the PM. Additionally, if required to produce a trip report by the individual task order, the contractor shall attach a copy of the report and minutes to the monthly status report. Trip report format shall comply with USTRANSCOM Pamphlet 33-2, Communication Guide.

Deliverable: Trip Report

4.5 – 4.6 All provisions of the Contract Level PWS apply.

4.7 Period of Performance. The period of performance for this task order is 1 Oct 2010 to 30 Sep 2011.

4.8 – 5.19 All provisions of the Contract Level PWS apply.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. 01		3. EFFECTIVE DATE 13-Oct-2010		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE HTC711 USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0003			
				X 10B. DATED (SEE ITEM 13) 08-Oct-2010			
CODE 3U6L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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.							
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.							
X 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).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcperejm1168 ANALYSIS OF MOBILITY PLATFORM The purpose of this administrative modification is to correct the amounts on Option CLIN 1005 from \$554,405.49 to \$275,180.16 and Option CLIN 1007 from \$2,958,390.21 to \$2,683,210.05. The point of contact for this modification is Mr. Joe Pereyra, 618-220-7109.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) CAREY N. GROPP / CONTRACTING OFFICER TEL: 618-220-7090 EMAIL: carey.gropp@ustrancom.mil			
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)		16C. DATE SIGNED 14-Oct-2010	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 1005

The pricing detail quantity has decreased by 279,225.33 from 554,405.49 to 275,180.16.

The total cost of this line item has decreased by \$279,225.33 from \$554,405.49 to \$275,180.16.

CLIN 1007

The pricing detail quantity has decreased by 275,180.16 from 2,958,390.21 to 2,683,210.05.

The total cost of this line item has decreased by \$275,180.16 from \$2,958,390.21 to \$2,683,210.05.

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for CLIN 1005 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 12-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 12-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 1007 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
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POP 12-OCT-2010 TO
30-SEP-2011

N/A

USTC AT21 PMO - F3ST95
RUIZ, RUBEN
102 SOUTH ADAMS ST., BLDG. 4038
SCOTT AFB IL 62225-5357
618-256-6763
FOB: Destination

F3ST95

To:

DELIVERY DATE

QUANTITY

SHIP TO ADDRESS

UIC

POP 12-OCT-2010 TO
30-SEP-2011

N/A

USTC AT21 PMO - F3ST95
RUIZ, RUBEN
102 SOUTH ADAMS ST., BLDG. 4038
SCOTT AFB IL 62225-5357
618-256-6763
FOB: Destination

F3ST95

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 26	
2. AMENDMENT/MODIFICATION NO. 02		3. EFFECTIVE DATE 15-Feb-2011		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		3. EFFECTIVE DATE HTC711		7. ADMINISTERED BY (If other than item 6) CODE See Item 6			
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0003			
				X 10B. DATED (SEE ITEM 13) 08-Oct-2010			
CODE 3U6L5		FACILITY CODE 3U6L5					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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) See Schedule							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
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.							
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).							
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-3 Changes - Time-and-Material Or Labor-Hours							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcocompr011738 The purpose of this bilateral modification is to revise the current Performance Work Statement (PWS) Paragraph 1.3.8.3 Task Area 8 Subtask 3 and to de-obligate \$81,192.72 from CLIN 1001. A. The PWS dated 18 August 2010 is replaced by Revised PWS dated 9 February 2011. B. Paragraph 1.3.8.3 of the PWS is revised to change the IA certification and accreditation from IAM-II to IAT-I. C. The total amount for CLIN 1001 is decreased from \$1,607,787.17 to \$1,526,594.45; a decrease of \$81,192.72. D. The total funded amount of the contract is decreased from \$2,298,158.87 to \$2,216,966.15; a decrease of \$81,192.72. E. All other terms and conditions remain the same and in full effect. The point of contact for this modification is Margarita Compton, 618-220-7056, margarita.compton@ustrancom.mil							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print) Michael E. Noff Sr. Manager, Contract Relations				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LISA A. GROSS, Contracting Officer			
15B. CONTRACTOR/OFFEROR Michael E Noff (Signature of person authorized to sign)				16B. UNITED STATES OF AMERICA BY Lisa A. Gross (Signature of Contracting Officer)			
15C. DATE SIGNED 2/28/2011				16C. DATE SIGNED 1 Mar 2011			

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was decreased by \$81,192.72 from \$2,298,158.87 to \$2,216,966.15.

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 1001

The pricing detail quantity has decreased by 81,192.72 from 1,607,787.17 to 1,526,594.45.

The total cost of this line item has decreased by \$81,192.72 from \$1,607,787.17 to \$1,526,594.45.

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for CLIN 1001 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 12-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 12-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was decreased by \$81,192.72 from \$2,298,158.87 to \$2,216,966.15.

CLIN 1001:

AA: 97X4930.FD50 6F1 70AB 24901 G04N70 70110 00000F 387700 F87700 (CIN F3ST950204A0040000AA) was decreased by \$81,192.72 from \$1,607,787.17 to \$1,526,594.45

SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following have been added by full text:

PERFORMANCE WORK STATEMENT

**PERFORMANCE WORK STATEMENT
FOR**

TASK ORDER (TO) 0003

ANALYSIS OF MOBILITY PLATFORM (AMP)

Revised 9 February 2011

1.0 DESCRIPTION OF SERVICES

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses.

1.2 Scope. This Performance Work Statement (PWS) contains requirements in support of the AMP Federation of models. All provisions of the basic contract apply. The paragraph numbers of the below sequentially follow the numbering scheme of the Contract Level PWS.

1.3 Specific Tasks. The specific task areas with associated subtasks to be performed are identified as: Contract Management, Studies Support, Requirements Definition, Design and Development, System Interface Support, Maintenance, System Administration, Information Assurance, Contingency Operations, Configuration Management, and Enhancements.

1.3.1 Task Area 1 – Contract Management. This task area shall encompass overall contract management to include administrative, clerical, documentation, and related functions. The contractor shall designate an individual from the contractor's resources to be the focal point for all contract management communications with USTRANSCOM, and to be responsible for ensuring successful accomplishment of PWS tasks. Point of contact (POC) information, to include name, title, phone number, and e-mail address, are to be provided to the Contracting Officer at the Post-Award Conference.

1.3.1.1 Task Area 1 Subtask 1 - Task Order Management Plan (TOMP). The contractor shall prepare a TOMP that describes tasks, dependencies, management and technical approach, organizational resources, and management controls to be employed to meet cost, performance and schedule requirements throughout contract execution. The TOMP shall include the contractor's approach to plan for, identify, monitor, and control risk in all phases of this effort. The TOMP also shall include a work breakdown structure (WBS) that defines resources and dependencies. In addition, the TOMP shall include a description of the contractor's requirements management process. The contractor shall update the TOMP after receipt of each subsequent task order received during the period of performance of this task order.

Deliverable: TOMP

1.3.1.2 Task Area 1 Subtask 2 - Monthly Status Reports (MSR). The contractor shall submit an MSR summarizing overall status, progress, and recommendations and shall include details and results of the work performed during the reporting period, identifying any issues, problem areas, and items that require Government

action; work planned for the next month; change request and problem report evaluations, as necessary; dates and locations of IPRs conducted; hours performed on each task(s) by labor category and by Contract Line Item Number (CLIN); actual and projected expenditures; meetings attended; cost, schedule and or performance variance that includes a description of how the variances were determined; risk assessment and mitigation recommendations; open issues; a list of deliverables provided; and key personnel (e.g., project manager, lead developer, lead engineer) changes. Estimated and actual travel costs shall be reported, together with contractor name, trip location and purpose, and dates of travel. The MSR shall include copies of invoices for all travel performed during the reporting period.

Deliverable: MSR

1.3.1.3 Task Area 1 Subtask 3 - In-Process Reviews (IPRs). The contractor shall conduct and/or host IPRs on a quarterly basis or as the program manager (PM) requires. The PM will determine dates and whether IPRs will be held at the contractor's site, at USTRANSCOM, via video teleconference, web-cast, or conference call. IPRs shall summarize status, progress, new capability requirements and program schedule to include new requirements, risk, and remediation plan in any task area. The contractor shall prepare presentation materials and provide to the PM in accordance with the schedule in the table in Paragraph 1.4. At a minimum, the contractor shall include in the minutes a record of activity, decisions made, date, location and attendees.

Deliverables: Presentation Materials, IPR Meeting Minutes and Slides

1.3.1.4 Task Area 1 Subtask 4 - Integrated Management Schedule (IMS). The contractor shall develop and deliver to the PM an IMS that provides a schedule for all major milestones as currently tasked to the contractor. It shall also include anticipated future work to support schedule and workload de-confliction. The IMS shall include a high-level Master Schedule which lists the major milestones and completion dates associated with each. The IMS shall also include sub-schedules for each major milestone that lists closure criteria (specific actions that must be taken prior to reaching the milestone) and scheduled completion dates for each closure criterion. The schedule shall address design, development, test, and deployment for approved new system capabilities, and shall show the critical path. The contractor shall keep this schedule current, making schedule changes as necessary after coordinating these changes with the PM. The IMS shall be delivered with the MSR, or when circumstances necessitate a change to the schedule, whichever occurs first.

Deliverable: IMS

1.3.1.5 Reserved.

1.3.1.6 Task Area 1 Subtask 6 - Variance Report. The contractor shall notify the PM and the Contracting Officer's Representative (COR) by submitting a variance report when any labor cost varies more than 5 percent from the baseline or latest PM-accepted change to the baseline. The contractor shall schedule a meeting with the PM and the COR when any labor cost varies more than 10 percent from the baseline or latest PM-accepted change to the baseline.

Deliverable: Variance Report

1.3.1.7 Task Area 1 Subtask 7 - Demonstration Support. The contractor shall conduct technical presentations or demonstrations to USTRANSCOM, other Department of Defense (DOD) commands, and other AMP users when requested by the PM. The contractor shall support presentations or demonstrations at other venues when required by the PM. For example, the contractor may be required to demonstrate the functionality of the software at AMP IPRs or at AMP User Conferences. This support may include but is not limited to scenario and system set-up and other subject matter expert support.

1.3.1.8 Task Area 1 Subtask 8 – Teleconferences. The contractor shall conduct weekly telephone conferences with the PM to provide current status of all tasks.

1.3.2 Task Area 2 - Studies Support. The contractor shall support planning and execution of analytical studies such as the Defense Program Guidance's Mobility Capabilities and Requirements Studies and Quadrennial Defense Review. This may require software modifications, analysis of study requirements and products, and on-site support. As appropriate to the specific study, the contractor shall work with MIDAS, ELIST, and other model development contractors to define upgrades and enhancements to software of AMP, MIDAS, ELIST, and other models, and coordinate release and testing schedules. The contractor shall make necessary modifications to the AMP Federate and shall enhance the graphical user interfaces (GUI) and/or charts as directed by the COR or the PM. The contractor shall define an approach to integrate the Federation, coordinate integration for the Federation, conduct integration and testing, and perform trouble-shooting to repair or modify software problems identified during model execution.

1.3.3 Task Area 3 - Requirements Management. The contractor shall be responsible for facilitation and administration of the AMP requirements management process. The contractor shall comply with the USTRANSCOM Program Management Office (PMO) Requirements Management Plan. The Functional Manager (FM) will provide a prioritized list of functional requirements to the PM, who then will provide these requirements to the contractor. The contractor shall coordinate and integrate the technical expertise required to construct the system and associated databases (if applicable), and support field testing in a limited operational environment. To implement Federation-level requirements, the contractor shall coordinate with developers of other Federation systems as described in the Government-provided Memoranda of Agreement between AMP and these other systems.

1.3.3.1 Reserved.

1.3.4 Task Area 4 – Design and Development. The contractor shall design, develop, and test the AMP infrastructure and GUI to support Federation integration efforts. The contractor shall continue to design, develop, test and apply required security features. The design and development will support the future addition of, and changes to, existing federates. The GUI will include mechanisms for configuring and running AMP models. The GUI development will be compliant with USTRANSCOM EA standards. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users. The AMP infrastructure will be extensible to meet future USTRANSCOM needs. The AMP infrastructure will be compliant with USTRANSCOM EA standards. The contractor shall maintain and expand the Federation application programming interface (API) and the data model.

The contractor shall develop and test new system capabilities using commercial best practices appropriate to the AMP functional requirements. For System Development, the contractor shall:

- Design, code, test, document, and support full system integration of software and software releases (including software changes), assessments and prototypes supporting application development.
- Propose release content and schedules based upon the known Government requirements and priorities.
- Provide necessary models and simulations to support the verification and validation.
- Provide software size, cost, and schedule estimates, and include justification and confidence level behind the estimates.
- Deliver any developed corporate applications software artifacts to the PMO.

1.3.4.1 Task Area 4 Subtask 1 – Software Development. The contractor shall employ software engineering commercial best practices in performing software development and support. The contractor shall designate a lead engineer for the software engineering and technical interactions with USTRANSCOM. The contractor shall be responsible for providing design, development, test and integration, configuration management (CM), quality assurance (QA), and documentation for all AMP software. The contractor shall ensure that the AMP software is developed to be compatible with the current and any projected USTRANSCOM software configurations (e.g., United States Air Force (USAF) Standard Desktop Configuration (SDC), network, security, Internet browser, etc). The Government will furnish the contractor with the approved USTRANSCOM software configurations. The contractor shall provide a Software Requirements Specification (SRS) that describes the user's functional requirements in detail and in a form that will support design and development of software to satisfy these requirements. If the software release includes a database, the contractor also shall provide a Database Design Description and a Data Dictionary. The contractor shall ensure AMP data complies with USTRANSCOM's

Distribution Process Information Exchange Data Model (DPIEDM). USTRANSCOM PMO will review and approve design documentation and the SRS prior to contractor implementation.

Deliverables: Database Design Description and Data Dictionary (if applicable), Software Requirements Specification

1.3.4.2 Task Area 4 Subtask 2 – Software Testing. For each scheduled release, the contractor shall support Government participation in test events that include, but are not limited to, Government Witness Testing (GWT) and User Acceptance Testing (UAT) of the software to ensure it is validated and verified against the Government provided requirements and problem reports. The purpose of GWT is to observe contractor testing of the software planned for use during UAT. The contractor shall identify and track deficiencies discovered during testing that involves Government participation. In accordance with PM and FM prioritization and PM direction, the contractor shall resolve these deficiencies and present another software version for either GWT or UAT.

The contractor shall prepare documentation that describes the developer's test methodology, presents the test cases, traces requirements from contractual documentation through to test cases, and provides status documentation in accordance with the deliverable schedule in Paragraph 1.4. A test case will provide detailed test instructions, any pre-conditions or inputs, and expected results. The contractor shall conduct a Test Readiness Review (TRR) before GWT commences and an Operational Readiness Review (ORR) before UAT commences. The goals of these reviews are to confirm the readiness of the application and test infrastructure (e.g., test environment and documentation) to start each test event, to identify the proper exit criteria necessary to complete each test event, and obtain Government approval to proceed toward the next milestone leading ultimately to software fielding. The contractor shall provide a Software Test Report (STR) no later than five business days after each test event involving Government participation has been completed.

Once the software is delivered to the Government for UAT, the contractor shall not implement changes to the software baseline under test until the Government has completed (or postponed) testing, prioritized software or test problem reports, and has accepted the change(s) proposed to resolve the problem(s). After completion of UAT, the contractor shall conduct a Production Readiness Review (PRR) that demonstrates readiness of the application and infrastructure to support fielding to the production environment, and to obtain a fielding decision from the Government.

If the contractor uses automated test scripts to verify functional requirements, enhancements, or software problem fixes for a software version entering a scheduled test event involving Government participation, the contractor shall provide a user-readable version of the automated test script(s) and expected test result(s) for each test case; these shall be included in the Software Test Cases deliverable. The contractor shall provide the results of automated testing of the software build to be used at the start of scheduled test events, and any builds occurring during scheduled test events. The contractor shall include these automated test result(s) as an addendum to the STR.

Deliverables: Software Test Plan, Software Test Cases, Software Test Reports

1.3.4.3 Task Area 4 Subtask 3 – AMP Software Releases. During the period of performance of this Task Order, the contractor shall provide 1 major AMP release, 1 minor release, 1 scheduled maintenance release, and up to 12 emergency releases that may occur between regularly scheduled releases. The following pertains:

Major releases are releases that incorporate changes that impact the security or hardware architectures of the system, or include the implementation of a new operating system or database (other criteria may apply.) Each release must undergo IA review to determine the degree to which the changes incorporated into the software impact the security or hardware architectures of the system, or include the implementation of a new operating system, database, or interface (other criteria may apply.) This review is referred to as a major/minor release determination. Major releases do contain one or more changes that affect one or more of these features.

Version numbering for major releases affects the whole number to the left of the leftmost decimal point (e.g., 12.0.0, 14.0.0). Minor releases consist of functionality enhancements and may include fixes of software problems. Numbering for minor releases affects the middle digit of the software release (e.g., 12.1.0, 14.2.0). Maintenance

releases consist of fixes of software problems only; numbering of maintenance releases affects only the right-most digit of the software release number (e.g., 12.1.1, 14.3.4). Versioning of emergency releases shall be accomplished by affixing a letter to the right-most digit of the affected release.

The contractor shall update the User Guide to provide USTRANSCOM functional personnel appropriate guidance for system operation.

At Government request, the contractor shall perform up to five demonstrations of software releases of any type at AMP IPRs and at AMP User Conferences. The contractor shall provide software releases per the release process addressed in the Government AMP Configuration Management Plan (CMP). The contractor also shall deliver software source code with each release. The contractor shall assist the Government in achieving software acceptance through the USTRANSCOM security certification and accreditation process by accomplishing tasks described in Paragraph 1.3.8.3. Several of the enhancements described in Paragraph 1.3.11 require the developer to deliver software releases, and the instructions of this paragraph shall apply to each paragraph below that requires a software release as a deliverable. Each software release may combine two or more enhancements, as determined by the AMP Configuration Control Board (CCB).

The contractor shall deliver a software Version Description Document (VDD), following the configuration management procedures described in Paragraph 1.3.10, and not later than the deliverable due date stipulated in Paragraph 1.4.

Deliverables: Software Release, Updated User Guide, Software Source Code, VDD

1.3.5 Task Area 5 – System Interface Support. The contractor shall support system interfaces as indicated in the following subtasks.

1.3.5.1 Task Area 5 Subtask 1 – System Interface Maintenance. The contractor shall provide system interface maintenance to include those changes required to correct performance of data exchange functions described in current system or software documentation. The contractor shall support the Government in initiating system interface development efforts to correct problems according to the priority established by the PM.

1.3.5.2 Task Area 5 Subtask 2 – System Interface Development and Modification. The contractor shall support the Government in engineering and modifying existing system interfaces to meet current and projected data exchange requirements. Interfaces may be required between systems of other Government agencies or commercial systems. The contractor shall develop or update the Interface Design Description (IDD), as required. The contractor shall analyze changes to system interfaces to include (but not be limited to) requirements analysis, clarification of the requirement with the originator, recommendations regarding feasibility and cost effectiveness, what computer resources and man-hours the project shall require, projected delivery date, and the consequences of the proposed change. The contractor shall support the Government in initiating system interface engineering and modification efforts to implement Baseline Change Requests (BCR) according to the priority established by the CMP and CCB. The contractor shall ensure that all interface engineering and modification efforts comply with DOD Directive 8320.2, Data Sharing in a Net-Centric DOD, DOD Net-Centric Data Strategy, and standards set forth in the USTRANSCOM Defense Transportation System (DTS) Enterprise Architecture (EA).

Deliverable: IDD

1.3.6 Task Area 6 – Maintenance.

1.3.6.1 Task Area 6 Subtask 1 – Software Maintenance.

1.3.6.1.1 AMP Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP. The contractor shall maintain the Federation data objects and run infrastructure, and adapt to changes in the component models. In addition, the contractor shall keep information found on the AMP webshare site current. These duties shall include keeping the web pages updated with the latest downloadable AMP software releases, sample data, and AMP User Group materials.

1.3.6.1.2 AMP-PAT Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP-PAT.

1.3.6.2 Task Area 6 Subtask 2 – System Maintenance.

1.3.6.2.1 AMP System Maintenance. The contractor shall provide on-going support to maintain normal system operations. Normal operation for the system is interpreted to mean that the system software is available except during periods of routine maintenance or when software is released. The PM, after coordinating with the functional users, will approve the timing of any non-emergency system downtime for hardware and software maintenance. The contractor shall restore the maintained software to normal operation whenever the contractor is informed such normal operation has been interrupted. Software maintenance also includes those changes that are required to correct the performance of functions described in existing system or software documentation.

1.3.6.2.2 AMP-PAT System Maintenance. The contractor shall provide on-going support to maintain normal system operations. Normal operation for the system is interpreted to mean that the system software is available except during periods of routine maintenance or when software is released. The PM, after coordinating with the functional users, will approve the timing of any non-emergency contractor downtime for hardware and software maintenance. The contractor shall restore the maintained software to normal operation whenever the contractor is informed such normal operation has been interrupted. Software maintenance also includes those changes that are required to correct the performance of functions described in existing system or software documentation.

1.3.6.3 Reserved.

1.3.6.4 Reserved.

Deliverable: Program Metadata

1.3.7 Task Area 7 – System Administration. The contractor shall provide on-site SA support to USTRANSCOM functional users for the system. This includes the following activities:

- Plan, schedule and install new or modified hardware and software, to include system patches, updates, and enhancements for the system servers. Troubleshoot AMP installation problems.
- Support installation, optimization, backup, recovery, modification and upgrade of software. Debug AMP software and support testing of software releases (i.e., support of GWT and UAT).
- Monitor operational system performance and recommend possible improvements.
- Accomplish routine system maintenance functions running backups and coordinating hardware repair/replacement.
- Provide technical support for system reengineering efforts.
- Work with Government security and networking personnel on system-related issues.
- Support the Technical Assessment activities and provide required updates.

The contractor shall update the system administration manual to support the system. The contents of the manual shall include, but not be limited to, account administration; software installation; obtaining, generating, and updating reference files, shared drives, and web pages; troubleshooting and resolving operating system conflicts, maintaining logs, and creating reports, as required.

Deliverable: System Administration Manual

1.3.7.1 Task Area 7 Subtask 1 – AMP Federation Model User Training. The contractor shall provide AMP Federation Model training once per FY. Training shall be on the use of the AMP Federation modeling tools. USTRANSCOM will coordinate and provide the training classroom (including hardware) if such training is required. Training shall be consistent with industry standards and result in the trainees' full understanding of the capabilities and the designed use of the associated software applications and Graphic User Interfaces.

1.3.8 Task Area 8 – Information Assurance (IA). The contractor shall establish an IA Program to implement and sustain appropriate IA management, operational, and technical controls and processes as required to ensure compliance with DOD and Chairman Joint Chiefs of Staff (CJCS) requirements, and Joint Task Force – Global Network Operations (JTF-GNO) taskings. The contractor shall submit for Government approval an overarching security plan that describes their strategy for implementation of IA and Industrial Security requirements throughout the life of the contract. The contractor shall ensure that information system security engineering (ISSE) is employed to develop or modify any IA component of the system architecture. Such modifications will be made in compliance with all analogous or interfacing IA component(s) of the GIG Architecture and will be designed to make maximum use of the DOD enterprise IA capabilities and services. The contractor also shall support periodic Government inspections and reviews to ensure compliance with DOD IA requirements throughout the contract performance period. Contractor IA Program capabilities shall include but not be limited to processes and procedures for vulnerability management, patch management, incident response, Information Condition (INFOCON) response, application security configuration management, risk management, and situational awareness.

1.3.8.1 Task Area 8 Subtask 1 – IA Design. The contractor shall protect and prevent unauthorized access to Government sensitive unclassified and classified data and IT resources supporting the system. The contractor shall ensure appropriate IA controls are designed, developed and implemented to provide for non-repudiation, confidentiality, integrity, and availability of Government systems, applications, and data. The contractor shall leverage, to the maximum extent possible, automated tools to identify and remediate vulnerabilities or weaknesses in the system design and coding that could be exploited or that may result in system or data compromise. The contractor shall work with other DOD activities and vendors as required to implement these IA controls. The contractor shall perform vulnerability management activities as part of all AMP development and sustainment. The contractor shall coordinate with the AMP PM to document the installation of vendor security patches or support Government development of a Plan of Action & Milestones (POA&M) when patches cannot be applied. In coordination with the PM, the contractor shall design, develop and implement secure AMP applications and configurations through applying applicable DOD security technical implementation guides (STIGs), checklists, vendor security guidance, industry best practices, and applicable vendor product security patches. The contractor shall ensure AMP applications are in compliance with DODI 8551.1 and leverage approved ports, protocols and services.

1.3.8.1.1 Security Engineering. The contractor shall evaluate AMP system components, applications, and operating systems to ensure security issues are identified and addressed. Contractor personnel assigned to perform this task shall be designated Information Assurance Technician Level I (IAT-I) to facilitate the design, development, and evaluation of AMP IA technical controls. The contractor shall provide copies of the required certification(s) applicable for IAT-I to the AMP PM and COR within six months of contract award.

1.3.8.1.1.1 Applicability. The contractor shall continue to monitor and analyze Information Assurance (IA) Vulnerability Management (IAVM) Notices, USTRANSCOM Security Notifications, United States Computer Emergency Readiness Team (US-CERT) Security Bulletins, and vendor security advisories to determine applicability to AMP.

1.3.8.1.1.2 Recommendations. The contractor shall analyze applicable security bulletins to determine system impact, identify mitigating factors, and develop recommendations to the Government regarding potential courses of action. Contractor recommendations shall be compliant with AMP, USTRANSCOM and DOD security requirements. The contractor shall ensure that patch deployments and other significant security activities are documented in the IMS. The contractor assigned to this contract shall maintain certification under the requirements of DOD 8570.01-M.

The contractor shall forward an initial analysis and assessment "quick-look" for high impact (risk) advisories (based on the Security Technical Implementation Guide (STIG) Finding Severity Category listed in the IA Vulnerability Advisories (IAVAs), IA Vulnerability Bulletins (IAVBs) and Technical Advisories (TAs)) to the PM and AMP Systems Engineer within 2 business days via Classified e-mail. All STIG Finding Severity Category I and II IAVAs, IAVBs and TAs are considered high impact. In addition, the contractor shall prepare an analysis for other than high impact advisories and provide it to the AMP Systems Engineer within seven working days via e-mail. The

contractor also shall provide a summary of security analysis and assessment results during weekly teleconferences and an update in the program monthly report.

Deliverables: High Impact Risk Advisories, Other Risk Advisories, Security Summaries

1.3.8.2 Task Area 8 Subtask 2 – Security Testing. The contractor shall ensure appropriate security requirements are included as part of the AMP requirements traceability matrix and whenever possible, shall support Government Security Test and Evaluation (ST&E) in conjunction with scheduled system development and acceptance testing. As part of the contractor's change control process, the contractor shall ensure participation by the IA-qualified representative to evaluate the impact of each change on security. The contractor shall document the results of this evaluation. When directed by the PM, the contractor also shall test vendor security patches for AMP production systems and applications to assess their impact on system functionality prior to their installation.

1.3.8.3 Task Area 8 Subtask 3 – DOD Information Assurance Certification and Accreditation Process. The contractor shall assume responsibility for management and update of existing system security documentation that were developed to facilitate AMP's security accreditation in accordance with DODI 8510.01. The contractor shall perform security certification activities as required to maintain current system accreditation and support re-accreditation. The contractor shall support USTRANSCOM's use of the DOD Enterprise Mission Assurance Support Service (eMASS) system for automated accomplishment of the certification and accreditation process. The contractor shall update eMASS as required and provide supporting IA documentation for upload as artifacts in eMASS.

As a minimum, the contractor shall ensure compliance with applicable provisions of DOD Directive (DODD) 8500.1, Information Assurance; DOD Instruction 8500.2, Information Assurance Implementation; DODD 8570.1, Information Assurance Training, Certification and Workforce Management; CJCS Manual 6510.01, Defense-in-Depth: IA and Computer Network Defense (CND); DODI 8520.2, PKI and Public Key (PK) Enabling; DODI 8551.1, Ports, Protocols, and Services Management (PPSM); DODI 8510.01, DOD Information Assurance Certification and Accreditation Process (DIACAP), and DOD 8570.01-M, Information Assurance Workforce Improvement Program.

AMP has been designated Mission Assurance Category (MAC) III classified for the purposes of applying IA controls.

The contractor shall develop and maintain the documentation listed below to support DIACAP accreditation decisions. Contractor IA personnel assigned to support the completion of the Certification and Accreditation documentation below shall be qualified as an Information Assurance Technician Level I (IAT-I), per DOD 8570.01-M. The contractor shall provide copies of the required certification(s) applicable for IAT-I to the JFAST PM and COR within six months of contract award.

The Information Assurance and Industrial Security Plan (IA&ISP) shall serve as the overarching document. The contractor shall deliver the other documents listed below as appendices to the IA&ISP.

NOTE: Items marked by asterisks connote templates that the Government will provide for the contractor to complete.

High Impact Risk Advisories
Other than High Impact Risk Advisories
Security Summaries
Audit Design Artifact *
Cryptographic Subsystem Artifact *
IA Acquisition Artifact *
Identification and Authentication Subsystem Artifact *
Incident Response Plan (IRP) Artifact *
Interconnections Artifacts *
Personnel Security Artifact *

Remote Access Artifact Security *
Security Design Document (SDD) Artifact *
Security Test Plan (STP) Artifact *
Vulnerability Management Plan (VMP) Artifact *
Physical and Environmental Artifact *
System Classification Guide
System Security Policy
Risk Management Review Report

Deliverables: IA&ISP (and associated appendices)

1.3.8.4 Task Area 8 Subtask 4 – Information Assurance Training. Contract employees physically assigned to USTRANSCOM and USTRANSCOM Component Commands (TCC) at Scott AFB shall attend/complete security training as prescribed by DOD and USTRANSCOM/TCC instructions. At a minimum this includes: Employee Initial Security Training, Annual Security Awareness Training, Operations Security (OPSEC), DOD Antiterrorism Level 1 Training, Personally Identifiable Information (PII) Training and any Security Stand-Down Day Training scheduled by the Commander. Contract employees assigned elsewhere shall attend security training established by their respective government security offices and/or installations.

Deliverable: Contractor Security Training Documentation

1.3.8.5 Task Area 8 Subtask 5 – Information Assurance Workforce Improvement Program (IAWIP). The contractor shall:

- a. Ensure that personnel accessing information systems have the proper and current information assurance certification to perform information assurance functions in accordance with DOD 8570.01-M, IAWIP. The contractor shall meet the applicable information assurance certification requirements, including:
 - 1) DOD-approved information assurance workforce certifications appropriate for each category and level as listed in the current version of DOD 8570.01-M; and
 - 2) Appropriate operating system certification for information assurance technical positions as required by DOD 8570.01-M.
- b. Upon request by the Government, the contractor shall provide documentation supporting the information assurance certification status of personnel performing information assurance functions.
- c. Contractor personnel who do not have proper and current certifications shall be denied access to DOD information systems for the purpose of performing information assurance functions.

Deliverable: Contractor IAWIP Certification Documentation

1.3.9 Task Area 9 – Contingency Operations. The contractor shall support AMP PM development or revision of the System Contingency Management Plan. At its discretion, the AMP PM will provide drafts of this document upon which the contractor shall be requested to review and comment.

1.3.9.1 Task Area 9 Subtask 1 – Technical Assessment Documentation and Support Requirements. The contractor shall provide the necessary support, to include documentation and advice to meet the USTRANSCOM security and technical requirements of the USTRANSCOM Technical Assessment process.

Deliverable: Technical Assessment Documents

1.3.10 Task Area 10 – Configuration Management. This support is required to meet the DIACAP and USTRANSCOM technical and security requirements. The CM process facilitates orderly configuration identification, change identification and control, status reporting, and configuration auditing of product information for such beneficial purposes as to revise capability and improve performance, reliability, or maintainability; extend

life; reduce cost; reduce risk and liability; or reduce defects. CM involves identifying the configuration items of products developed and delivered to the customer, systematically controlling changes to the configuration, maintaining configuration traceability, and minimizing adverse effects to AMP interfaces with external systems. The contractor's CM processes must complement the Government CM processes.

1.3.10.1 Task Area 10 Subtask 1 – Configuration Manager Responsibilities. The contractor's Configuration Manager shall develop a CMP and processes that are consistent with and complements the Government CMP and processes. The contractor's Configuration Manager shall establish and maintain the following:

- Baselines (versioning)
- Configuration identification
- Change control
- Configuration status accounting
- CM audits
- CM Repository
- Delivery Process

Deliverable: Configuration Management Plan

1.3.10.2 Task Area 10 Subtask 2 – Configuration Identification. The contractor shall provide configuration identification as specified in its CMP. This identification may include hardware configuration items and software configuration items. All configuration items must be uniquely identifiable by use of a configuration item number and nomenclature.

Deliverable: Updated Configuration Item Listings

1.3.10.3 Task Area 10 Subtask 3 – Change Control. The contractor shall provide change control for all AMP baselines and configuration items to include documentation, commercial off-the-shelf (COTS) software, application, source, and executable code. The contractor shall provide an automated configuration management tool to assist in this effort. The contractor shall allow Government web access to the contractor's CM tool to ensure Government oversight of the change process. This tool shall allow the Government to track change requests and problem reports and their status. Additionally, the contractor shall provide a process to allow AMP users to request software improvements and development of new AMP capabilities.

1.3.10.3.1 Evaluating Requested Changes. The contractor shall document the evaluation of all change requests and problem reports. Evaluations include, but are not limited to, requirements analysis, and clarification of the requirement with the originator, determining if the requirement is feasible, what computer resources and man-hours the change or resolution of the problem shall require, its adherence to standards, and the impacts of the proposed change or cure for the problem. In addition, the contractor shall ensure participation by a qualified IA representative to evaluate the impact on security of each change or problem cure. The contractor shall document the results of these evaluations and provide them to the AMP PM for evaluation.

Deliverable: Change Request Evaluation Reports

1.3.10.3.2 Reserved.

1.3.10.3.3 Configuration Status Accounting. The contractor shall provide status of all baselines, configuration items, and all outstanding change requests and software problem reports.

Deliverable: Status Accounting Reports

1.3.10.3.4 CM Audits. The contractor shall conduct a physical configuration audit (PCA) and functional configuration audit (FCA) of each code baseline/release delivered to the PMO.

A PCA examines the actual configuration of an item being produced. It verifies that the related requirements, design and test documentation matches the item being released as specified in the contract.

The FCA is the formal examination of the as-tested characteristics of a configuration item (hardware and software) with the objective of verifying that actual performance complies with design and interface requirements in the functional baseline. It is essentially a review of the configuration item's test/analysis data, including software unit test results, to validate the intended function or performance stated in its specification is met. For the overall system, this would be the system performance specification.

The contractor shall confirm that the contractor CM team has performed both a PCA and an FCA by adding the following statement to the transmittal document when any software version is released to the Government: "The contractor CM team has completed both a PCA and an FCA for the software version described in this letter of transmittal."

1.3.10.3.5 Delivery Process. All deliverables shall be made electronically via e-mail to USTCJ6-P-CM@USTRANSCOM.MIL. If the contractor submits a deliverable via e-mail and its delivery fails, the contractor shall provide a Secure File Transfer Protocol (SFTP) site that allows the Government CM to download the deliverable. If a site is not available or not feasible, the Government will make one available to the contractor. In case no sites are available, the Contractor shall deliver the deliverable via compact disk or digital videodisk (CD/DVD). The CD/DVD must be properly labeled to identify the content to include version number and date.

1.3.11 Task Area 11 – Enhancements. The contractor shall provide the following new software and enhancements to the existing AMP application. Paragraph numbers below are consistent with those found in the basic Indefinite Delivery (ID) / Indefinite Quantity (IQ) contract, HTC711-10-D-S002, but may not sequentially follow each other due to changes in functional priority. The paragraph numbering for those enhancements that do not appear in the basic contract sequentially follow the paragraph numbers for enhancements listed in Task Order 0002 of this contract.

1.3.11.21.2 Joint Mobility Closure Estimator Integration (JMCE). The contractor shall develop the capability to import data from an AMP Federation run into the JMCE modeling tool.

Deliverable: Software Release

1.3.11.22 Surface Modeling. The contractor shall design, develop, and test the following surface modeling tasks into AMP.

1.3.11.22.1 The contractor shall provide a single, merged GUI for all model inputs. The developer shall provide a single GUI for critics, reporting methodologies, metrics, Master Scenario Events List (MSEL), and Route Viewing.

1.3.11.22.2 The contractor shall provide the capability to archive runs of record.

1.3.11.22.3 The contractor shall develop the capability within AMP to model a port that performs the combined functionality of both an airport and a seaport.

1.3.11.22.4 The contractor shall provide a construct for enhanced cargo detail editing with the AMP Requirements Editor. This new capability shall permit the user to edit Levels 3 and 4 cargo details directly in the Requirements Editor.

1.3.11.22.5 The contractor shall develop the capability for the model to load at Level 4 detail.

1.3.11.22.6 The contractor shall develop the capability to model operating hours defined in local time zones.

1.3.11.22.7 The contractor shall provide integration of all Surface Modeling functionality within the AMP Federation in order to properly model end-to-end operations with all model components.

1.3.11.22.8 The contractor shall support multiple runs in a Virtual Machine (VM), as well be able to view the run results without replaying the run.

The contractor shall deliver an AMP application containing the surface distribution modeling attributes described in Paragraph 1.3.11.22 and its subparagraphs.

Deliverable: Software Release

1.3.11.23 AMP MIDAS Support and Integration. The contractor shall integrate enhancements to the MIDAS application into the AMP Federation. The AMP developer shall coordinate with the MIDAS developer to understand the new capabilities provided by each MIDAS release, support the integration of new MIDAS releases into the AMP Federation, maintain file writers in AMP to support new releases of MIDAS, and work with the MIDAS developer to understand new inputs to MIDAS. Expected MIDAS releases include enhanced support for theater air/sealift modeling, and a more detailed supply plan. MIDAS requirements and priorities shall be determined at the annual AMP User's Group. The Government will coordinate with the MIDAS PMO for MIDAS enhancements to support the AMP Federation.

Deliverable: Software Release

1.3.11.24 AMP ELIST Support and Integration. The contractor shall integrate enhancements to the ELIST application into the AMP Federation. The AMP developer shall coordinate with the ELIST developer to understand the new capabilities provided by each ELIST release, support the integration of new ELIST releases into the AMP Federation, maintain file writers in AMP to support new releases of ELIST, and work with the ELIST developer to understand new inputs to ELIST. Expected ELIST releases include enhanced support for theater air/sealift modeling, and a more detailed supply plan. ELIST requirements and priorities shall be determined at the annual AMP User's Group. The Government will coordinate with the ELIST PMO for ELIST enhancements to support the AMP Federation.

Deliverable: Software Release

1.3.11.25 AMP Reports/Results. The contractor shall continue to design, develop and test feedback of interim and final AMP Federation results. This includes reports, results viewing and graphs.

1.3.11.25.1 Scenario Reports. The contractor shall develop additional reports to support inventory levels, demand projections, and supply chain statistics, asset utilization, unit closure and port utilization.

Deliverable: Software Release

1.3.11.26 AMP Critics. The contractor shall continue to design, develop, and test AMP 'Critics.' These include pre-run checks on AMP setup data and post-run checks on Federation results.

Deliverable: Software Release

1.3.11.27 AMP Mapping Support. The contractor shall continue to design, develop, and test mapping support in AMP. The contractor shall keep AMP up-to-date with OpenMap releases and will continue to add key setup and run time information on the map.

Deliverable: Software Release

1.3.11.27.1 Requirement and Cargo Increment Number (CIN) Map Enhancements. The contractor shall develop functionality to provide a Plan Versus Actual (PVA) graphical display on a map for deliveries of passengers, Unit Equipment (UE) and sustainment (resupply, ammunition and POL). On a map that includes selectable destinations from the TPFDD and sustainment destinations from the AMP sustainment setup GUI, the user will be able to toggle on individual destination locations and at that location vertical bars will appear for PAX, UE and various types of sustainment (the user can toggle which destinations and what commodities are shown).

One bar will show the requirement up to that point of the deployment and one bar will show deliveries of that commodity up to that point in time as indicated on a horizontal slider bar. The PVA bars will change over the deployment time period as controlled by a horizontal slider bar. The contractor shall also make the theaters selectable to enable the user to select and view a PVA for a particular theater.

Deliverable: Software Release

1.3.11.28 AMP-PAT Model, MIDAS, ELIST and Land, Air and Sea Warfight Model Federation Integration.

The contractor shall continue to support integration of key models in AMP and keep the Federation up-to-date with AMP-PAT Model, MIDAS, ELIST and appropriate land, air and sea warfight model releases.

1.3.11.28.1 AMP-PAT Model Integration. The contractor shall develop the functionality to dynamically integrate the SST into the AMP Federation.

Deliverable: Software Release

1.3.11.29 AMP CONUS-ELIST-MIDAS Integration. The contractor shall continue to enhance, develop, and test integration of CONUS-ELIST with MIDAS in AMP. This task will be bounded by the ability of the MIDAS model to dynamically exchange data with CONUS-ELIST.

Deliverable: Software Release

1.3.11.32 (Optional Task) Collect and Analyze Data. The contractor shall develop software that will automatically organize and insert into AMP cleansed, historical sustainment demand and transportation requirements data from the Global Decision Support System (GDSS), Global Air Transportation Execution System (GATES), Worldwide Ports System (WPS), Strategic Distribution Database (SDDDB), and Integrated Data Environment (IDE) systems/sources. The user will extract the required data from these systems into a file that then will be imported into AMP.

Deliverable: Software Release

1.3.11.61 Cost Modeling. The contractor shall provide a capability for adding cost factors that will allow tracking of the costs for each movement. This would include, but not be limited to, costs associated with loading/offloading, transport, and vehicle request.

Deliverable: Software Release

1.3.11.62 (Optional Task) End To End Modeling (ETEM). The contractor shall research, develop, and deliver software and documentation for an end-to-end modeling capability of strategic and regional/tactical simulation and optimization that will operate within the AMP Federation, as well as improve the analysis capability of the existing simulation models. The contractor also shall research advanced capabilities that can support very large optimization problems. This research and development effort will be split into two years; FY11 will be primarily focused on research, design, and initial development; FY12 will be focused on final development, integration, testing, and software delivery.

1.3.11.62.1 Develop Strategic Optimization/Scheduling Model. The contractor shall conduct research and development activities to determine enhanced methods to conduct programmatic analysis to include optimal modeling techniques to support optimized deployment and distribution movement analysis, increased analyst effectiveness and decreased model execution time for strategic modeling. The contractor shall create and deliver an enhanced and optimized Origin to Destination optimal scheduler prototype by enhancing the heuristics within the current MIDAS model and adding an optimization routine that would reduce the search space for the heuristics, and support a modeling nodal link auto-setup for the model. The optimization shall provide optimal route sets and quantities of cargo and passengers that should flow through these route sets to the MIDAS scheduler, which would continue to schedule the strategic flow to the theater. The enhanced ETM scheduler shall provide the initial optimized plan that would feed the simulation startup conditions.

1.3.11.62.1.1 Scope the Problem. The contractor shall research the data and level of fidelity required to create the enhanced strategic scheduler (vehicles, ports, cargo, etc.), and consolidate the data to support cost and constraint equations. The contractor shall establish the feasibility of proposed solution(s), identifying constraints, and determining whether (and level of) multiple optimization passes are required. The contractor shall research and establish objective formulas and evaluate options to support weighted, multi-objective function capability (closure time, cost, risk, lateness, etc.). The contractor shall document the data, preliminary design, and constraints of the alternatives in the Concept Document deliverable. The contractor shall determine and document the data required for the strategic scheduler, compare the required data to the available strategic data from AMP, and identify any shortfalls. The contractor shall document the planned approach in the Concept Document deliverable. The FM and PM will review and approve this Document and will decide as to the most favorable approach.

Deliverable: Strategic Optimization/Scheduling Model Concept Document

1.3.11.62.1.2 Develop Functional Design Specification. The contractor shall document the strategic model in draft specification and design documents. The contractor shall describe the effectiveness and efficiency of 'look ahead' for strategic scheduling, when/if user feedback is appropriate to refine the scenario, the inclusion of sustainment flow for multiple theaters with deployment flows, and identification of points to re-optimize the strategic network.. The contractor shall describe how multiple objective functions and their interaction are to be measured. The contractor then shall document the approach used to develop the tool in the Design Specification. The PM will review and approve the Design Specification before strategic model development begins.

Deliverable: Draft Strategic Model Design Specification

1.3.11.62.1.3 Optimization Process. The contractor shall begin development of an ETEM strategic scheduler that will create an enhanced heuristics algorithm that will support a mode and port selection process and speed up the current MIDAS heuristics and model setup. The contractor shall ensure that these enhanced heuristics provide the optimal set of airports and seaports to be used for the multi-mode/port selection process for the given scenario. The software to be developed during FY12 shall incorporate the capabilities outlined in paragraph 1.3.11.62.1.3 and its sub paragraphs.

1.3.11.62.1.3.1 Implement Model Generator. The contractor shall build an interface to handle data for the optimization solver, and incorporate sustainment inventory optimization, such as the location and levels of stock, refreshing stock during execution, etc.

1.3.11.62.1.3.2 Collect Data for the Optimization Model. The contractor shall develop the capability to stop the model, collect necessary data, and provide the data to the optimization model.

1.3.11.62.1.3.3 Disseminate Optimization Model Results. The contractor shall develop the infrastructure to package the optimization results and provide the data to the AMP model.

1.3.11.62.1.3.4 Development of 2-way Communications Component. The contractor shall provide the optimized strategic solution to AMP in a suitable format (to include the port, mode, flow, period) for use in the heuristic scheduler.

1.3.11.62.1.3.5 Development of Model Controller for AMP Integration. The contractor shall deliver the capability for full control of the strategic optimization/scheduling model in the Model Controller.

1.3.11.62.1.3.6 Develop User Front End. The contractor shall build an interim user interface to set up various look-ahead combinations, effect model inputs, establishing objective function formulation of multiple objectives, and monitoring the optimization results.

1.3.11.62.1.4 Update Model State with Optimization Model Results. The contractor shall use the optimization results to make appropriate updates to the model state. The contractor shall document how the optimization results update the model state in the Strategic Model Design Specification.

1.3.11.62.2 Develop Regional/Tactical Optimization Models. The contractor shall conduct research and development activities to determine enhanced methods to conduct programmatic analysis to include optimal modeling techniques to support optimized deployment and distribution movement analysis, increased analyst effectiveness and decreased model execution time for regional/tactical models. The contractor shall create and deliver Origin to port of embarkation (POE) and port of debarkation (POD) to Destination regional prototype optimization models for the front end and back end of the End-to-End process that supports the scheduling of non-strategic simulated operations.

1.3.11.62.2.1 Scope the Problem. The contractor shall research the data and level of fidelity required to create the enhanced regional/tactical scheduler, and consolidate the data to support cost and constraint equations. The contractor shall determine appropriate periods (how often) and depth (how far) to look-ahead to solve regional scheduling problems, and research the appropriate scheduling scheme (heuristics or optimization). The contractor shall document data, constraints, and preliminary model design. The contractor shall determine and document the required data for both the Origin to POE and POD to Destination planners, compare the required data to the available regional schedule data from AMP and identify any shortfalls. The contractor also shall document the planned approach in the Concept Document deliverable. The FM and PM will review and approve this Document and will decide as to the most favorable approach.

Deliverable: Regional/Tactical Optimization Scheduling Model Concept Document

1.3.11.62.2.2 Develop Functional Design Specification. The contractor shall document the regional/tactical model in draft specification and design documents. The contractor shall describe the effectiveness and efficiency of 'look ahead' for regional/tactical scheduling, the item movement data (mode, routes) to be used, when/if user feedback is appropriate to refine the scenario, the inclusion of sustainment flow for multiple theaters with deployment flows, and identification of points to re-optimize the regional/tactical network.. The contractor shall describe how multiple objective functions and their interaction are to be measured. The contractor then shall document the approach used to develop the tool in the Design Specification. The PM will review and approve the Design Specification before development of the regional/tactical model begins.

Deliverable: Draft Regional/Tactical Model Design Specification

1.3.11.62.2.3 Optimization of Node and Mode Selection. The contractor shall deliver a regional optimized ETEM planner that will use optimization techniques and enhanced algorithms to support the origin to POE and POD to destination optimization for the regional flow of requirements. The software to be developed during FY12 shall incorporate the capabilities outlined in paragraph 1.3.11.62.2.3 and its sub paragraphs.

1.3.11.62.2.3.1 Develop Method for Strategic and Regional Optimization Schemes to Interact and Communicate. The contractor shall align the solution of the strategic end-to-end optimization results with the CONUS and theater regional components.

1.3.11.62.2.3.2 Implement Model Generator. The contractor shall build an interface to handle data for the optimization solver, and build a feasible schedule from the flow solution (by heuristics or other method).

1.3.11.62.2.3.3 Collect Data for the Optimization Model. The contractor shall develop the capability to stop the model, collect necessary data, and provide the data to the optimization model.

1.3.11.62.2.3.4 Disseminate Optimization Model Results. The contractor shall develop the infrastructure to package the optimization results and provide the data to the AMP model.

1.3.11.62.2.3.5 Development of 2-way Communications Component. The contractor shall provide the optimized strategic solution to AMP in a suitable format (to include the port, mode, flow, period) for use in the heuristic scheduler. The contractor shall coordinate the optimal flow with AMP implementation, providing data for AMP to execute and reporting appropriate information to the strategic planning module.

1.3.11.62.2.3.6 Development of Model Controller for AMP Integration. The contractor shall deliver the capability for full control of the regional/tactical optimization/scheduling model in the Model Controller.

1.3.11.62.2.3.7 Develop User Front End. The contractor shall build a user interface to set up various look-ahead combinations, effect model inputs, establishing objective function formulation of multiple objectives, and monitor the optimization results.

1.3.11.62.2.4 Update Model State with Optimization Model Results. The contractor shall use the optimization results to make appropriate updates to the model state. The contractor shall document how the optimization results update the model state in the Regional/Tactical Model Design Specification.

1.3.11.62.2.5 Validate Model Results and Overall Algorithmic Performance. The contractor shall validate the model results and overall performance, to include improvements to the code for speed, reduced memory requirements, and key information used by the optimization module.

1.3.11.62.3 Improve Analysis of Existing Simulation Models through Simulation and Optimization. The contractor shall design the model to automatically search the feasible solution space using a genetic algorithm or some other appropriate search technique to create and execute a design of experiment that would lead to an optimal answer for certain study types. The intent of this is to optimize the analyst's time needed to conduct the required model runs.

1.3.11.62.3.1 Input Parameter Selection. The contractor shall deliver and document a model to determine the best combination of model input parameters using a genetic algorithm or other appropriate search technique to automatically set up and execute the model runs required to find an optimized solution.

1.3.11.62.3.2 AMP Runner. The contractor shall provide the documentation of the modeling optimization process to include construction of appropriate fitness functions, parameters that may be chosen to vary and their possible ranges, and other components of the simulation optimization process. The contractor shall specify how the model will optimize the simulation process.

1.3.11.62.3.2.1 AMP Runner: Design Specification. The contractor shall deliver appropriate specification documentation on the analysis of the model's performance and algorithm, and develop and document a genetic algorithm (or other search scheme) to provide an intelligent search method within the search space.

Deliverable: Draft Simulation Optimization Design Specification

1.3.11.62.3.2.2 AMP Runner: GUI Capability. The contractor shall design a GUI to enable the setup of search space parameters, fitness measure, and document the code and approach with key information used by the optimization module in the Design Specification.

1.3.11.62.3.2.3 AMP Runner: Implementation. The contractor shall design and begin development of a distributed running capability that will 'farm out' AMP runs on available machines or threads, use a database to support multi-run results, and improve the code for speed and reduced memory requirements.

1.3.11.62.4 Research and Develop a Scalable Optimization Prototype. The contractor shall develop and deliver a VLO Survey and Architecture Design Report and begin development of a software prototype that can be scaled to support very large optimization (VLO) problems.

1.3.11.62.4.1 Research Current Methods and Technologies. The contractor shall survey and research current methods and technologies that support the architecture to solve VLO problems. The contractor shall include the methodology and results of its survey and research efforts, and its design for an architecture suitable to support VLO problems, in the VLO Survey and Architecture Design Report. The PM will review and approve the VLO design contained in this Survey and Design Report before development of the scalable optimization prototype begins.

Deliverable: VLO Survey and Architecture Design Report

1.3.11.62.4.2 Develop a Scalable Optimization Prototype. The contractor shall document and begin development of a scalable software optimization prototype for VLOs using existing hardware, develop administrative tools to adjust settings of prototype optimization capabilities, develop and test a conceptual client front end GUI, and test optimization prototype performance, to include scalability parameters, hardware sensitivity, and software changes. The contractor shall document the prototype in the Architecture Document deliverable.

1.3.11.63 (Optional Task) Distribution Performance Nodal Model (DPNM). DPNM shall provide a highly-configurable, agile capability to model, simulate, analyze, and report metrics for the complex and detailed business processes within a distribution center to support improved decision making for resource acquisition and allocation, stock placement, nodal infrastructure requirements, and sustainment policies. The contractor shall deliver a final project report that contains the results of the DPNM task efforts, including code and system status, conclusions, and recommendations.

Deliverable: Final Project Report

1.3.11.63.1 Integrate the Logistics Process Analysis Tool (LPAT) into the AMP Federation. The contractor shall integrate the LPAT modeling capability into the AMP Federation of models. The contractor shall provide the capability for LPAT to be easily integrated into the AMP Federation and run seamlessly with the other model federates. The contractor shall ensure that the models exchange data back and forth correctly, and that the output from LPAT is included in the overall Federation output files, reports, and graphs. The contractor shall submit a DPNM Software Design Specification that addresses the integration of the LPAT Tool into the AMP Federation.

Deliverables: Integrated DPNM Software Design Specification, Software Release

1.3.11.63.2 Prototype Nodes. The contractor shall create a collection of prototype distribution nodes. These prototypes will enhance the USTRANSCOM modeling capability.

1.3.11.63.2.1 The generic node prototypes shall include:

- Theater Consolidation Shipping Points (TCSP)
- Container Consolidation Points (CCP)
- Inventory Control Point (ICP)
- Warehouses
- Material Processing Centers (MPC)
- Deployable Depots
- Joint Task Force Port Opening operations.

1.3.11.63.2.2 The specific node prototypes shall include (potential sites):

- Large Warehouse/CCP: (Defense Depot Susquehanna, Pennsylvania (DDSP))
- Medium Warehouse: (Defense Supply Center, Richmond, Virginia (DSCR))
- CCP (Ocean Service): (Norfolk Container Freight Station (CFS))
- TCSP: (Germersheim, Germany Defense Distribution Center (DDDE))

Deliverable: Prototype Node Data for DPNM

1.3.11.63.3 Validate the Model Results and Performance. The contractor shall test the model with appropriate prototype node data to ensure proper modeling and functionality of node constructs. The contractor shall produce a Test Plan and test the model in conjunction with the AMP Federation of tools to ensure proper import and export of data in the end-to-end modeling. The output and operational characteristics of the model will be presented to a panel of Subject Matter Experts for validation of the process and outputs. The contractor shall produce a Test Report that documents the results of the test, including performance against the performance criteria established in the Test Plan.

Deliverables: Test Plan, Test Report

1.4 Deliverables. The contractor shall provide all deliverables electronically to the PM; the deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software, with the exception of source code, which the contractor shall provide in native code language. The contractor shall upload files directly into the USTRANSCOM-provided provided Joint Deployment Planning and Analysis Center webshare. If the contractor is unable to load the deliverable file(s) on the webshare, then the contractor shall provide a soft copy of each deliverable to each of the following organizational e-mail accounts: ustcj6-p-cm@ustranscom.mil and ustcj6-pc-ms@ustranscom.mil. Should this second method of transmittal prove unsuccessful, the contractor shall provide the required deliverables on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. "Format", as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Due Date
1.3.1.1	TOMP	Government-Determined	30 calendar days after Task Order award; Updates due 30 calendar days after receipt of each subsequent Task Order award	15 calendar days from receipt of Government comments
1.3.1.2	MSR	Government-Determined	N/A	10 th calendar day of each month; Final to be provided NLT the last day of the contract
1.3.1.3	Presentation Materials, IPR Meeting Minutes and Slides	Government-Determined	Presentation Materials due 2 days prior to IPR	5 days after IPR
1.3.1.4	IMS	Contractor and Government-Determined	10 days after Task Order award; Updated monthly (include with MSR) or when schedule changes	5 calendar days from receipt of Government comments
1.3.1.6	Variance Report	Contractor-Determined	N/A	As applicable
1.3.4.1	Database Design Description	Contractor-Determined Format	NLT 45 calendar days prior to scheduled initial delivery of software; One Soft Copy (e-mailed)	NLT 10 days after receipt of Government comments
1.3.4.1	Software Requirement Specification (SRS)	Contractor-Determined Format	NLT 30 calendar days prior to scheduled initial delivery of software	NLT 10 days after receipt of Government comments
1.3.4.1	Data Dictionary	Contractor-Determined Format	NLT 30 calendar days before scheduled initial delivery of software	NLT 10 days after receipt of Government comments
1.3.4.2	Software Test Plan	Contractor - Determined Format	30 calendar days before scheduled initial delivery of	NLT 10 calendar days after receipt of Government

			software	comments
1.3.4.2	Software Test Cases	Contractor - Determined Format	30 calendar days before initial delivery of software	NLT 10 calendar days after receipt of Government comments
1.3.4.2	Software Test Reports	Contractor - Determined Format	N/A	NLT 7 calendar days following completion of system test
1.3.4.3	Software VDD	Contractor-Determined Format	NLT 60 calendar days prior to scheduled initial delivery of software	At ORR
1.3.4.3, 1.3.11 and subparas	Software Release	Contractor-Determined Format	Initial delivery at scheduled Production Readiness Review (PRR)	Final delivery at scheduled Operational Readiness Review (ORR), or at Government's request, end of performance period
1.3.4.3	User Guide	Contractor-Determined Format	Updates due 20 calendar days prior to major software release	10 calendar days after receipt of Government comments
1.3.4.3	Software Source Code	Contractor-Determined in Native Format	N/A	5 days following ORR
1.3.5.2	IDD	Contractor-Determined Format	NLT 40 calendar days before implementation date of release containing modified or new interface	NLT 10 calendar days after receipt of Government comments
1.3.7	System Administration Manual	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments
1.3.8.1.1.2	High Impact Risk Advisory	Contractor-Determined Format	N/A	NLT 2 days following release of IAVA, IAVB, or TA
1.3.8.1.1.2	Other Risk Advisory	Contractor-Determined Format	N/A	NLT 7 days following release of IAVA, IAVB, or TA
1.3.8.1.1.2	Security Summary	Contractor-Determined Format	N/A	During weekly teleconferences; updates in MSR
1.3.8.3	IA&ISP and appendices	Government-Determined Format	Updates as required by the Government	NLT 10 days after receipt of Government comments
1.3.8.4	Contractor Security Training Completion Documentation	Government-Determined Format	N/A	Upon completion of training
1.3.8.5	Contractor IAWIP Certification Documentation	Vendor-Determined Format	N/A	Produced Upon request of the Government

1.3.9.1	Technical Assessment Documents	Government-Determined Format	Upon Government request	5 days after receipt of Government comments
1.3.10.1	Configuration Management Plan	Contractor-Determined Format	Update as required by the Government	NLT 10 calendar days after receipt of Government comments
1.3.10.2	Updated Configuration Item Listings	Contractor Determined Format	NLT 60 calendar days prior to end of performance period for this Task Order	NLT 10 calendar days after receipt of Government comments
1.3.10.3.1	Change Request Evaluation Report	Contractor Determined Format	N/A	NLT 15 days following receipt of change request
1.3.10.3.3	Status Accounting Reports	Contractor Determined Format	Monthly, with the MSR	NLT 5 calendar days after receipt of Government comments
1.3.11.62.1.1	Strategic Optimization/Scheduling Model Concept Document	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.1.2	Draft Strategic Model Design Specification	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.2.1	Regional/Tactical Optimization Scheduling Model Concept Document	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.2.2	Draft Regional / Tactical Model Design Specification	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.3.2.1	Draft Simulation Optimization Design Specification	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.4.1	VLO Survey and Architecture Design Report	Contractor-Determined Format	NLT 9 September 2011	NLT 10 business days following receipt of Government comments
1.3.11.63	Final Report	Contractor-Determined Format	NLT 9 September 2011	NLT 10 days following receipt of Government comments
1.3.11.63.1	Integrated DPNM Software Design Specification	Contractor-Determined Format	NLT 31 May 2011	NLT 10 days following receipt of Government comments
1.3.11.63.2.2	Prototype Node Data for DPNM	Contractor-Determined Format	NLT 15 August 2011	15 September 2011
1.3.11.63.3	Test Plan	Contractor-	NLT 15 July 2011	NLT 5 days of receipt

		Determined Format		of Government comments
1.3.11.63.3	Test Report	Contractor-Determined Format	N/A	NLT 30 September 2011
4.4.1	Trip Report	Government-Determined Format	N/A	5 days after completion of travel

*Major or minor release: Major releases are releases that impact the security or hardware architectures of the system, or include the implementation of a new operating system or database (other criteria may apply.) This is the reason each release must undergo IA review for major/minor release determination. Numbering for major releases affects the whole number to the left of the leftmost decimal point (e.g., 12.0.0, 14.0.0). Minor releases consist of functionality enhancements and may include fixes of software problems. Numbering for minor releases affects the middle digit of the software release (e.g., 12.1.0, 14.2.0). Maintenance releases consist of fixes of software problems only; numbering of maintenance releases affects only the right-most digit of the software release number (e.g., 12.1.1, 14.3.4).

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Develop and Deliver IMS;	1.3.1.4,	Documents: No more than one (1) late delivery of draft and no more than 5 days late. Documents should contain no more than 1 critical or more than 4 substantive comments per document. No more than 2 sets of revisions/corrections with all revisions/corrections accomplished or incorporated by due date. (A second “set” may be necessary should Government comments be required on the second draft (or “final”) delivery in response to the first set of Government comments.) Software: Delivered on time, with no more than 1 planned version delivered no more than 5 days beyond ORR (according to contractor- and Government-agreed schedule), with no more than 2 Priority 1 problem reports, 4 or fewer Priority 2 problem reports, 6 or fewer Priority 3 or below problem reports. All Priority 1 and 2 and 50% or more of the Priority 3 problem reports submitted during UAT resolved and operational software delivered on time, according to contractor- and Government-agreed schedule, with no more than 1 planned version delivered no more than 2 days beyond PRR, according to contractor- and Government-agreed schedule.
Deliver Software Release, Updated User Guide, Software Source Code, VDD;	1.3.4.3,	
Develop, Update & Provide Architecture Documents;	1.3.6.3,	
Develop, Update & Provide IA&ISP (and associated appendices)	1.3.8.3	

2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After

receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). GFE listed in the table below will be used to support the AMP tasks to be performed at the contractor's site. USTRANSCOM will maintain all GFE. The USTRANSCOM objective is to accomplish required maintenance within 48 hours of receipt at USTRANSCOM and to return the GFE to the contractor via overnight delivery. The Government will provide the equipment and leased line to support the Secure Internet Protocol Router Network (SIPRNET) connection in support of the secure network requirement described in Paragraph 5.17 of this PWS. The Government will provide the latest version of the following documents to the contractor:

- DOD 5200.1-R, Information Security Program
- DODI 8510.01, DOD Certification and Accreditation Process, November 28, 2007
- DOD Directive 8500.01E, Information Assurance
- DOD Instruction 8500.2, Information Assurance Implementation
- DIACAP Artifact Templates
- System Classification Guide
- System Security Policy
- Risk Management Review Report
- MIL-STD 3022, Documentation of Verification, Validation, and Accreditation (VV&A) For Models And Simulations, 28 Jan 2008
- USTRANSCOM Pamphlet 33-2, Communication Guide
- DOD Instruction 5000.61, DOD Modeling and Simulation (M&S) Verification, Validation, and Accreditation (VV&A)
- Government CMP
- Government Contingency Management Plan (discretionary)
- USTRANSCOM PMO Requirements Management Plan

GOVERNMENT FURNISHED EQUIPMENT (GFE) LISTING

Serial Number	Part Number	Model Number	Model Description
23579681	61000034D2	CPU	Gateway P4 1400
031C16C7	61000033J9	SUN	18.2 GB Hard Drive
045H2C5A	610000341P	SUN	ULTRA 60
219V00AE	610000365L	SERVER	SUN FIRE 880
450G4023	61000035ZH	TAPE DRIVE	SUN External
602F0284	610000082X	SUN	ULTRA 1
628G3304	6100003250	SUN	Tape Drive
7WF16B1		SERVER	DELL 6850 POWEREDGE SERVER
9429FR3687	61000033YI	SUN	Monitor
9502FR4029	61000008II	SUN	Monitor
DZKWN41		CPU	Dell Precision 650 (Strongbad)
TW22530559		MONITOR	HP 17" Flat Panel
27645944	610000367D	CPU	Gateway E6000 P4 2400
201003317	61000035T4	MONITOR	NEC Flat Panel 18"
FBKYRF1		WORKSTATION	Dell Precision 690 (Fabfour)
MUL8006A0045134	61000037MA	MONITOR	Gateway (Wolverine)
85SVT91		WORKSTATION	Dell Precision 670 (Wolverine)

24682585	610000367D	PC	Gateway P4 1400
MCOC95364663477C1C5L		MONITOR	Dell 20" LCD (Fabfour)
962R6B1		Disk Array	Dell/EMC ax150 RAID Array
MUL8006A0045628?	61000037ML	MONITOR	Gateway (Strongbad)
C8KQ6B1	26639930989	SERVER	DELL 6850 POWEREDGE SERVER

3.2 Facilities. No facilities specified.

4.0 GENERAL INFORMATION

4.1 – 4.2 All provisions of the Contract Level PWS apply.

4.3 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB. However, to accommodate the contractor's on-site support personnel, the Government will provide controlled working space, phone, computer, fax, and connections to the NIPRNET or SIPRNET, as required, at no cost to the contractor for one FTE.

4.4 Travel. Performance under this task order shall require contractor travel within and outside the Continental United States (OCONUS). The table below lists anticipated travel requirements. The Government will reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). All contractor travel shall be coordinated with and validated by the PM prior to incurring any travel expenses. Travel requests shall be submitted in writing at least five (5) business days in advance from the travel commencement date shall consist of:

- Title, Purpose/Objective, Expected Outcome
- Date, Time (window), and Location
- Proposed Itinerary
- Proposed Meeting/Activities Agenda
- Number of Contractor Participants
- Desired Government Participants
- Requested Government Support
- Estimated Costs

The contractor shall identify personnel who will be traveling in sufficient time to obtain the lowest possible rates for airfare, rental car and lodging. Contractor invoices (along with associated receipts) shall support all travel reimbursement requests. The Government will not reimburse local travel and related expenses to the contractor for daily travel to or from the place of performance stipulated in each individual task order. Contractors shall not use General Services Administration city pair contracts.

ANTICIPATED CONTRACTOR TRAVEL

For estimating purposes, the Government anticipates the following trips (estimates include travel days) during the period of performance:

Origin	Destination	Duration (days)	Trip Description	No of People	Trips
Contractor location, if applicable	Scott, AFB	1	Kickoff	3	1
Contractor location, if applicable	Wash DC	2	User Group Meeting (UGM)	4	1
St. Louis, MO	Wash DC	2	UGM	1	1
Contractor location, if	Wash DC	2	AMI Support	4	1

applicable					
Contractor location, if applicable	Scott, AFB	1	IPR	3	2
St. Louis, MO	Contractor location, if applicable	2	Design Meeting	2	2
Wash DC	Contractor location, if applicable	2	Design Meeting	1	1

4.4.1 Trip Report. The contractor may be required to prepare and submit a trip report, including meeting minutes if applicable, following the conclusion of travel to the PM. Additionally, if required to produce a trip report by the individual task order, the contractor shall attach a copy of the report and minutes to the monthly status report. Trip report format shall comply with USTRANSCOM Pamphlet 33-2, Communication Guide.

Deliverable: Trip Report

4.5 – 4.6 All provisions of the Contract Level PWS apply.

4.7 Period of Performance. The period of performance for this task order is 1 Oct 2010 to 30 Sep 2011.

4.8 – 5.19 All provisions of the Contract Level PWS apply.

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 10	
2. AMENDMENT/MODIFICATION NO. 03		3. EFFECTIVE DATE 09-Jun-2011		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (if applicable)	
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		CODE HTC711		7. ADMINISTERED BY (if other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BEN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0003			
				X 10B. DATED (SEE ITEM 13) 08-Oct-2010			
CODE 3U6L5		FACILITY CODE 3U6L5					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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) See Schedule							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
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.							
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).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
X D. OTHER (Specify type of modification and authority) Bilateral; FAR 52.243-3 Changes--Time and Material or Labor-Hours (Sep 2000)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tccompme111340 The purpose of this modification is to fund optional CLINS 1005, 1007, 1008 and 1009. 1. The period of performance is 9 June 2011 - 8 June 2012. 2. The total amount of this contract is increased by \$2,998,390.21; from \$2,216,966.15 to \$5,215,356.36. 3. All other terms and conditions remain the same and in full effect. The point of contact for this modification is Ms. Margarita Compton, 618-220-7056, margarita.compton@ustrancom.mil							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print) Linda J. Cribbis <i>Senior Manager, Contract Relations</i>				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LISA A. GROSS, Contracting Officer			
15B. CONTRACTOR/OFFEROR <i>Linda J. Cribbis</i> (Signature of person authorized to sign)				15C. DATE SIGNED 09 JUN 2011		16B. UNITED STATES OF AMERICA BY <i>Lisa A. Gross</i> (Signature of Contracting Officer)	
						16C. DATE SIGNED 9 Jun 2011	

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$2,998,390.21 from \$2,216,966.15 to \$5,215,356.36.

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 1005

The CLIN type priced has been deleted.
The pricing detail quantity has changed from 275,180.16 to UNDEFINED.
The unit price amount has changed from \$1.00 to UNDEFINED.
The unit of issue Lot has been deleted.
The option status has changed from Option to No Status.
The total cost of this line item has decreased by \$275,180.16 from \$275,180.16 to UNDEFINED.

CLIN 1007

The CLIN type priced has been deleted.
The pricing detail quantity has changed from 2,683,210.05 to UNDEFINED.
The unit price amount has changed from \$1.00 to UNDEFINED.
The unit of issue Lot has been deleted.
The option status has changed from Option to No Status.
The total cost of this line item has decreased by \$2,683,210.05 from \$2,683,210.05 to UNDEFINED.

CLIN 1008

The CLIN type priced has been deleted.
The estimated/max cost has decreased by \$25,000.00 from \$25,000.00 to \$0.00.
The pricing detail quantity has changed from 25,000.00 to UNDEFINED.
The unit of issue Lot has been deleted.
The option status has changed from Option to No Status.
The total cost of this line item has decreased by \$25,000.00 from \$25,000.00 to UNDEFINED.

CLIN 1009

The CLIN type priced has been deleted.
The estimated/max cost has decreased by \$15,000.00 from \$15,000.00 to \$0.00.
The pricing detail quantity has changed from 15,000.00 to UNDEFINED.
The unit of issue Lot has been deleted.
The option status has changed from Option to No Status.
The total cost of this line item has decreased by \$15,000.00 from \$15,000.00 to UNDEFINED.

SUBCLIN 1005AA is added as follows:

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1005AA	AMP Labor (RDT&E) DPNM LH Contractor shall provide services for demonstration support of DPNM IAW the Government's Performance Work Statement (PWS) Task 1.3.1.7. Period of Performance 9 June 2011 - 8 June 2012. FOB: Destination PURCHASE REQUEST NUMBER: F3ST941125AA01 SIGNAL CODE: A	2,213.71	Lot	\$1.00	\$2,213.71
TOT MAX PRICE					\$2,213.71
ACRN AC CIN: 00000000000000041995					\$2,213.71

SUBCLIN 1005AB is added as follows:

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1005AB	AMP Labor (RDT&E) ETEM LH Contractor shall provide services to manage ETEM IAW the Government's Performance Work Statement (PWS) Task 1.3.1, 1.3.3 and 1.3.4.1. Period of Performance 9 June 2011 - 8 June 2012. FOB: Destination PURCHASE REQUEST NUMBER: F3ST941125AA01 SIGNAL CODE: A	272,966.45	Lot	\$1.00	\$272,966.45
TOT MAX PRICE					\$272,966.45
ACRN AD CIN: 00000000000000041996					\$272,966.45

SUBCLIN 1007AA is added as follows:

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1007AA	AMP Labor (RDT&E) LH Contractor shall provide services to add DPNM enhancements IAW the Government's Performance Work Statement (PWS) Task 1.3.11.63 - 1.3.11.63.3. Period of Performance 9 June 2011 - 8 June 2012. FOB: Destination PURCHASE REQUEST NUMBER: F3ST941125AA01 SIGNAL CODE: A	996,411.41	Lot	\$1.00	\$996,411.41
TOT MAX PRICE					\$996,411.41
ACRN AC CIN: 00000000000000043259					\$996,411.41

SUBCLIN 1007AB is added as follows:

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1007AB	AMP Labor (RDT&E) LH Contractor shall provide services to add ETEM enhancements IAW the Government's Performance Work Statement (PWS) Task 1.3.11.62 - 1.3.11.62.42. Period of Performance 9 June 2011 - 8 June 2012. FOB: Destination PURCHASE REQUEST NUMBER: F3ST941125AA01 SIGNAL CODE: A	1,686,798.64	Lot	\$1.00	\$1,686,798.64
TOT MAX PRICE					\$1,686,798.64
ACRN AD CIN: 00000000000000043260					\$1,686,798.64

SUBCLIN 1008AA is added as follows:

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1008AA	AMP Travel COST Travel in accordance with the Federal Travel Regulations and PWS paragraph 4.4. Period of Performance 9 June 2011 - 8 June 2012. FOB: Destination PURCHASE REQUEST NUMBER: F3ST941125AA01 SIGNAL CODE: A	UNDEFINED	Lot	UNDEFINED	\$25,000.00
				MAX COST	\$25,000.00
	ACRN AD CIN: 00000000000000043261				\$25,000.00

SUBCLIN 1009AA is added as follows:

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1009AA	AMP Other Direct Costs COST Allowable Other Direct Costs in accordance with the Federal Travel Regulations and PWS paragraph 4.6. Note: General and Administrative overhead charges will not be accepted or paid for approved ODC purchases. Period of Performance 9 June 2011 - 8 June 2012 FOB: Destination PURCHASE REQUEST NUMBER: F3ST941125AA01 SIGNAL CODE: A	UNDEFINED	Lot	UNDEFINED	\$15,000.00
				MAX COST	\$15,000.00
	ACRN AD CIN: 00000000000000043262				\$15,000.00

SECTION E - INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for SUBCLIN 1005AA:

INSPECT AT Destination	INSPECT BY Government	ACCEPT AT Destination	ACCEPT BY Government
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The following Acceptance/Inspection Schedule was added for SUBCLIN 1005AB:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
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Destination	Government	Destination	Government
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The following Acceptance/Inspection Schedule was added for SUBCLIN 1007AA:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

The following Acceptance/Inspection Schedule was added for SUBCLIN 1007AB:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

The following Acceptance/Inspection Schedule was added for SUBCLIN 1008AA:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

The following Acceptance/Inspection Schedule was added for SUBCLIN 1009AA:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule Item has been deleted from CLIN 1005:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 12-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item has been added to SUBCLIN 1005AA:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-JUN-2011 TO 08-JUN-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item has been added to SUBCLIN 1005AB:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
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POP 09-JUN-2011 TO 08-JUN-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
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The following Delivery Schedule Item has been deleted from CLIN 1007:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 12-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item has been added to SUBCLIN 1007AA:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-JUN-2011 TO 08-JUN-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item has been added to SUBCLIN 1007AB:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-JUN-2011 TO 08-JUN-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule Item has been deleted from CLIN 1008:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
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POP 12-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
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The following Delivery Schedule item has been added to SUBCLIN 1008AA:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-JUN-2011 TO 08-JUN-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule Item has been deleted from CLIN 1009:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 12-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item has been added to SUBCLIN 1009AA:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-JUN-2011 TO 08-JUN-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$2,998,390.21 from \$2,216,966.15 to \$5,215,356.36.

SUBCLIN 1005AA:

Funding on SUBCLIN 1005AA is initiated as follows:

ACRN: AC

CIN: 00000000000000041995

Acctng Data: 9710400.5109 8K1 70AB 30603763713S G5050W 588DG 63713S 387700 F87700

Increase: \$2,213.71

Total: \$2,213.71

SUBCLIN 1005AB:

Funding on SUBCLIN 1005AB is initiated as follows:

ACRN: AD

CIN: 00000000000000041996

Acctng Data: 9710400.5109 8K1 70AB 30603763713S G5050O 588DG 63713S 387700 F87700

Increase: \$272,966.45

Total: \$272,966.45

SUBCLIN 1007AA:

Funding on SUBCLIN 1007AA is initiated as follows:

ACRN: AC

CIN: 00000000000000043259

Acctng Data: 9710400.5109 8K1 70AB 30603763713S G5050W 588DG 63713S 387700 F87700

Increase: \$996,411.41

Total: \$996,411.41

SUBCLIN 1007AB:

Funding on SUBCLIN 1007AB is initiated as follows:

ACRN: AD

CIN: 00000000000000043260

Acctng Data: 9710400.5109 8K1 70AB 30603763713S G5050O 588DG 63713S 387700 F87700

Increase: \$1,686,798.64

Total: \$1,686,798.64

SUBCLIN 1008AA:

Funding on SUBCLIN 1008AA is initiated as follows:

ACRN: AD

CIN: 000000000000000043261

Acctng Data: 9710400.5109 8K1 70AB 30603763713S G5050O 588DG 63713S 387700 F87700

Increase: \$25,000.00

Total: \$25,000.00

SUBCLIN 1009AA:

Funding on SUBCLIN 1009AA is initiated as follows:

ACRN: AD

CIN: 000000000000000043262

Acctng Data: 9710400.5109 8K1 70AB 30603763713S G5050O 588DG 63713S 387700 F87700

Increase: \$15,000.00

Total: \$15,000.00

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z	PAGE OF PAGES 1 28	
2. AMENDMENT/MODIFICATION NO. 04		3. EFFECTIVE DATE 28-Jul-2011		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (If applicable)
6. ISSUED BY CODE USTRANSCOM-AQ - HTC711 808 SCOTT DR SCOTT AFB IL 62225-5357		CODE HTC711		7. ADMINISTERED BY (If other than item 6) CODE See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN MAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.		
				9B. DATED (SEE ITEM 11)		
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S012-0003		
				X 10B. DATED (SEE ITEM 13) 08-Oct-2010		
CODE 3U6L5		FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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) See Schedule						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT ORDERS IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
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.						
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).						
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
X D. OTHER (Specify type of modification and authority) FAR 52.243-3(b)(1) Changes - Time and Materials or Labor-Hour Sep 2000						
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> 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.) Modification Control Number: tchllw111723 This bilateral modification incorporates revised PWS dated 8 June 2011 which adds 933 hours of support for this task order. The POC for this action is Jamie Hill who can be reached at 618-220-7073 or James.Hill@ustrancom.mil						
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Neft Sr. Manager, Contracts				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) GAIL T. EVANS, Contracting Officer TEL: 618-220-7057 EMAIL: Gail.Evans@ustrancom.mil		
15B. CONTRACTOR/OFFEROR Michael C. Neft (Signature of person authorized to sign)		15C. DATE SIGNED 7/27/2011		16B. UNITED STATES OF AMERICA BY: [Signature] (Signature of Contracting Officer)		16C. DATE SIGNED 28 Jul 11

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$199,980.69 from \$5,215,356.36 to \$5,415,337.05.

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 1010 is added as follows:

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1010	AMP Labor LH Labor in accordance with revised PWS dated 8 June 2011.	199,980.69	Lot	\$1.00	\$199,980.69
Period of Performance: 28 July 2011 - 30 September 2011 FOB: Destination PURCHASE REQUEST NUMBER: F3SF371165G001 SIGNAL CODE: A					
TOT MAX PRICE					\$199,980.69
ACRN AE CIN: 00000000000000046888					\$199,980.69

SECTION E - INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for CLIN 1010:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$199,980.69 from \$5,215,356.36 to \$5,415,337.05.

CLIN 1010:

Funding on CLIN 1010 is initiated as follows:

ACRN: AE

CIN: 00000000000000046888

Acctng Data: 97X4930.FD40 681 6589 101 142080 559ZZ 41898F 387700 F87700

Increase: \$199,980.69

Total: \$199,980.69

SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following have been modified:

PERFORMANCE WORK STATEMENT

PERFORMANCE WORK STATEMENT FOR

TASK ORDER (TO) 0003

ANALYSIS OF MOBILITY PLATFORM (AMP)

8 June 2011

1.0 DESCRIPTION OF SERVICES

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses.

1.2 Scope. This Performance Work Statement (PWS) contains requirements in support of the AMP Federation of models. All provisions of the basic contract apply. The paragraph numbers of the below sequentially follow the numbering scheme of the Contract Level PWS.

1.3 Specific Tasks. The specific task areas with associated subtasks to be performed are identified as: Contract Management, Studies Support, Requirements Definition, Design and Development, System Interface Support, Maintenance, System Administration, Information Assurance, Contingency Operations, Configuration Management, and Enhancements.

1.3.1 Task Area 1 – Contract Management. This task area shall encompass overall contract management to include administrative, clerical, documentation, and related functions. The contractor shall designate an individual from the contractor's resources to be the focal point for all contract management communications with USTRANSCOM, and to be responsible for ensuring successful accomplishment of PWS tasks. Point of contact (POC) information, to include name, title, phone number, and e-mail address, are to be provided to the Contracting Officer at the Post-Award Conference.

1.3.1.1 Task Area 1 Subtask 1 - Task Order Management Plan (TOMP). The contractor shall prepare a TOMP that describes tasks, dependencies, management and technical approach, organizational resources, and management controls to be employed to meet cost, performance and schedule requirements throughout contract execution. The TOMP shall include the contractor's approach to plan for, identify, monitor, and control risk in all phases of this effort. The TOMP also shall include a work breakdown structure (WBS) that defines resources and dependencies. In addition, the TOMP shall include a description of the contractor's requirements management process. The contractor shall update the TOMP after receipt of each subsequent task order received during the period of performance of this task order.

Deliverable: TOMP

1.3.1.2 Task Area 1 Subtask 2 - Monthly Status Reports (MSR). The contractor shall submit an MSR summarizing overall status, progress, and recommendations and shall include details and results of the work performed during the reporting period, identifying any issues, problem areas, and items that require Government action; work planned for the next month; change request and problem report evaluations, as necessary; dates and locations of IPRs conducted; hours performed on each task(s) by labor category and by Contract Line Item Number (CLIN); actual and projected expenditures; meetings attended; cost, schedule and or performance variance that includes a description of how the variances were determined; risk assessment and mitigation recommendations; open issues; a list of deliverables provided; and key personnel (e.g., project manager, lead developer, lead engineer) changes. Estimated and actual travel costs shall be reported, together with contractor name, trip location and purpose, and dates of travel. The MSR shall include copies of invoices for all travel performed during the reporting period.

Deliverable: MSR

1.3.1.3 Task Area 1 Subtask 3 - In-Process Reviews (IPRs). The contractor shall conduct and/or host IPRs on a quarterly basis or as the program manager (PM) requires. The PM will determine dates and whether IPRs will be held at the contractor's site, at USTRANSCOM, via video teleconference, web-cast, or conference call. IPRs shall summarize status, progress, new capability requirements and program schedule to include new requirements, risk, and remediation plan in any task area. The contractor shall prepare presentation materials and provide to the PM in accordance with the schedule in the table in Paragraph 1.4. At a minimum, the contractor shall include in the minutes a record of activity, decisions made, date, location and attendees.

Deliverables: Presentation Materials, IPR Meeting Minutes and Slides

1.3.1.4 Task Area 1 Subtask 4 - Integrated Management Schedule (IMS). The contractor shall develop and deliver to the PM an IMS that provides a schedule for all major milestones as currently tasked to the contractor. It shall also include anticipated future work to support schedule and workload de-confliction. The IMS shall include a high-level Master Schedule which lists the major milestones and completion dates associated with each. The IMS shall also include sub-schedules for each major milestone that lists closure criteria (specific actions that must be taken prior to reaching the milestone) and scheduled completion dates for each closure criterion. The schedule shall address design, development, test, and deployment for approved new system capabilities, and shall show the critical path. The contractor shall keep this schedule current, making schedule changes as necessary after coordinating these changes with the PM. The IMS shall be delivered with the MSR, or when circumstances necessitate a change to the schedule, whichever occurs first.

Deliverable: IMS

1.3.1.5 Reserved.

1.3.1.6 Task Area 1 Subtask 6 - Variance Report. The contractor shall notify the PM and the Contracting Officer's Representative (COR) by submitting a variance report when any labor cost varies more than 5 percent from the baseline or latest PM-accepted change to the baseline. The contractor shall schedule a meeting with the PM and the COR when any labor cost varies more than 10 percent from the baseline or latest PM-accepted change to the baseline.

Deliverable: Variance Report

1.3.1.7 Task Area 1 Subtask 7 - Demonstration Support. The contractor shall conduct technical presentations or demonstrations to USTRANSCOM, other Department of Defense (DOD) commands, and other AMP users when requested by the PM. The contractor shall support presentations or demonstrations at other venues when required by the PM. For example, the contractor may be required to demonstrate the functionality of the software at AMP IPRs or at AMP User Conferences. This support may include but is not limited to scenario and system set-up and other

subject matter expert support. Due to additional functional requirements for demonstration support, 64 hours have been added to this task.

1.3.1.8 Task Area 1 Subtask 8 – Teleconferences. The contractor shall conduct weekly telephone conferences with the PM to provide current status of all tasks.

1.3.2 Task Area 2 - Studies Support. The contractor shall support planning and execution of analytical studies such as the Defense Program Guidance's Mobility Capabilities and Requirements Studies and Quadrennial Defense Review. This may require software modifications, analysis of study requirements and products, and on-site support. As appropriate to the specific study, the contractor shall work with MIDAS, ELIST, and other model development contractors to define upgrades and enhancements to software of AMP, MIDAS, ELIST, and other models, and coordinate release and testing schedules. The contractor shall make necessary modifications to the AMP Federate and shall enhance the graphical user interfaces (GUI) and/or charts as directed by the COR or the PM. The contractor shall define an approach to integrate the Federation, coordinate integration for the Federation, conduct integration and testing, and perform trouble-shooting to repair or modify software problems identified during model execution.

1.3.3 Task Area 3 - Requirements Management. The contractor shall be responsible for facilitation and administration of the AMP requirements management process. The contractor shall comply with the USTRANSCOM Program Management Office (PMO) Requirements Management Plan. The Functional Manager (FM) will provide a prioritized list of functional requirements to the PM, who then will provide these requirements to the contractor. The contractor shall coordinate and integrate the technical expertise required to construct the system and associated databases (if applicable), and support field testing in a limited operational environment. To implement Federation-level requirements, the contractor shall coordinate with developers of other Federation systems as described in the Government-provided Memoranda of Agreement between AMP and these other systems. Due to an increase in AMP-PAT functional requirements during the period of performance of this task order, 36 hours are being added to this task.

1.3.3.1 Reserved.

1.3.4 Task Area 4 – Design and Development. The contractor shall design, develop, and test the AMP infrastructure and GUI to support Federation integration efforts. The contractor shall continue to design, develop, test and apply required security features. The design and development will support the future addition of, and changes to, existing federates. The GUI will include mechanisms for configuring and running AMP models. The GUI development will be compliant with USTRANSCOM EA standards. The design of the GUI will be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users. The AMP infrastructure will be extensible to meet future USTRANSCOM needs. The AMP infrastructure will be compliant with USTRANSCOM EA standards. The contractor shall maintain and expand the Federation application programming interface (API) and the data model.

The contractor shall develop and test new system capabilities using commercial best practices appropriate to the AMP functional requirements. For System Development, the contractor shall:

- Design, code, test, document, and support full system integration of software and software releases (including software changes), assessments and prototypes supporting application development.
- Propose release content and schedules based upon the known Government requirements and priorities.
- Provide necessary models and simulations to support the verification and validation.
- Provide software size, cost, and schedule estimates, and include justification and confidence level behind the estimates.
- Deliver any developed corporate applications software artifacts to the PMO.

1.3.4.1 Task Area 4 Subtask 1 – Software Development. The contractor shall employ software engineering commercial best practices in performing software development and support. The contractor shall designate a lead engineer for the software engineering and technical interactions with USTRANSCOM. The contractor shall be responsible for providing design, development, test and integration, configuration management (CM), quality

assurance (QA), and documentation for all AMP software. The contractor shall ensure that the AMP software is developed to be compatible with the current and any projected USTRANSCOM software configurations (e.g., United States Air Force (USAF) Standard Desktop Configuration (SDC), network, security, Internet browser, etc). The Government will furnish the contractor with the approved USTRANSCOM software configurations. The contractor shall provide a Software Requirements Specification (SRS) that describes the user's functional requirements in detail and in a form that will support design and development of software to satisfy these requirements. If the software release includes a database, the contractor also shall provide a Database Design Description and a Data Dictionary. The contractor shall ensure AMP data complies with USTRANSCOM's Distribution Process Information Exchange Data Model (DPIEDM). USTRANSCOM PMO will review and approve design documentation and the SRS prior to contractor implementation.

Deliverables: Database Design Description and Data Dictionary (if applicable), Software Requirements Specification

1.3.4.2 Task Area 4 Subtask 2 – Software Testing. For each scheduled release, the contractor shall support Government participation in test events that include, but are not limited to, Government Witness Testing (GWT) and User Acceptance Testing (UAT) of the software to ensure it is validated and verified against the Government provided requirements and problem reports. The purpose of GWT is to observe contractor testing of the software planned for use during UAT. The contractor shall identify and track deficiencies discovered during testing that involves Government participation. In accordance with PM and FM prioritization and PM direction, the contractor shall resolve these deficiencies and present another software version for either GWT or UAT.

The contractor shall prepare documentation that describes the developer's test methodology, presents the test cases, traces requirements from contractual documentation through to test cases, and provides status documentation in accordance with the deliverable schedule in Paragraph 1.4. A test case will provide detailed test instructions, any pre-conditions or inputs, and expected results. The contractor shall conduct a Test Readiness Review (TRR) before GWT commences and an Operational Readiness Review (ORR) before UAT commences. The goals of these reviews are to confirm the readiness of the application and test infrastructure (e.g., test environment and documentation) to start each test event, to identify the proper exit criteria necessary to complete each test event, and obtain Government approval to proceed toward the next milestone leading ultimately to software fielding. The contractor shall provide a Software Test Report (STR) no later than five business days after each test event involving Government participation has been completed.

Once the software is delivered to the Government for UAT, the contractor shall not implement changes to the software baseline under test until the Government has completed (or postponed) testing, prioritized software or test problem reports, and has accepted the change(s) proposed to resolve the problem(s). After completion of UAT, the contractor shall conduct a Production Readiness Review (PRR) that demonstrates readiness of the application and infrastructure to support fielding to the production environment, and to obtain a fielding decision from the Government.

If the contractor uses automated test scripts to verify functional requirements, enhancements, or software problem fixes for a software version entering a scheduled test event involving Government participation, the contractor shall provide a user-readable version of the automated test script(s) and expected test result(s) for each test case; these shall be included in the Software Test Cases deliverable. The contractor shall provide the results of automated testing of the software build to be used at the start of scheduled test events, and any builds occurring during scheduled test events. The contractor shall include these automated test result(s) as an addendum to the STR.

Deliverables: Software Test Plan, Software Test Cases, Software Test Reports

1.3.4.3 Task Area 4 Subtask 3 – AMP Software Releases. During the period of performance of this Task Order, the contractor shall provide 1 major AMP release, 1 minor release, 1 scheduled maintenance release, and up to 12 emergency releases that may occur between regularly scheduled releases. The following pertains:

Major releases are releases that incorporate changes that impact the security or hardware architectures of the system, or include the implementation of a new operating system or database (other criteria may apply.) Each release must

undergo IA review to determine the degree to which the changes incorporated into the software impact the security or hardware architectures of the system, or include the implementation of a new operating system, database, or interface (other criteria may apply.) This review is referred to as a major/minor release determination. Major releases do contain one or more changes that affect one or more of these features.

Version numbering for major releases affects the whole number to the left of the leftmost decimal point (e.g., 12.0.0, 14.0.0). Minor releases consist of functionality enhancements and may include fixes of software problems. Numbering for minor releases affects the middle digit of the software release (e.g., 12.1.0, 14.2.0). Maintenance releases consist of fixes of software problems only; numbering of maintenance releases affects only the right-most digit of the software release number (e.g., 12.1.1, 14.3.4). Versioning of emergency releases shall be accomplished by affixing a letter to the right-most digit of the affected release.

The contractor shall update the User Guide to provide USTRANSCOM functional personnel appropriate guidance for system operation.

At Government request, the contractor shall perform up to five demonstrations of software releases of any type at AMP IPRs and at AMP User Conferences. The contractor shall provide software releases per the release process addressed in the Government AMP Configuration Management Plan (CMP). The contractor also shall deliver software source code with each release. The contractor shall assist the Government in achieving software acceptance through the USTRANSCOM security certification and accreditation process by accomplishing tasks described in Paragraph 1.3.8.3. Several of the enhancements described in Paragraph 1.3.11 require the developer to deliver software releases, and the instructions of this paragraph shall apply to each paragraph below that requires a software release as a deliverable. Each software release may combine two or more enhancements, as determined by the AMP Configuration Control Board (CCB).

The contractor shall deliver a software Version Description Document (VDD), following the configuration management procedures described in Paragraph 1.3.10, and not later than the deliverable due date stipulated in Paragraph 1.4.

Deliverables: Software Release, Updated User Guide, Software Source Code, VDD

1.3.5 Task Area 5 – System Interface Support. The contractor shall support system interfaces as indicated in the following subtasks.

1.3.5.1 Task Area 5 Subtask 1 – System Interface Maintenance. The contractor shall provide system interface maintenance to include those changes required to correct performance of data exchange functions described in current system or software documentation. The contractor shall support the Government in initiating system interface development efforts to correct problems according to the priority established by the PM.

1.3.5.2 Task Area 5 Subtask 2 – System Interface Development and Modification. The contractor shall support the Government in engineering and modifying existing system interfaces to meet current and projected data exchange requirements. Interfaces may be required between systems of other Government agencies or commercial systems. The contractor shall develop or update the Interface Design Description (IDD), as required. The contractor shall analyze changes to system interfaces to include (but not be limited to) requirements analysis, clarification of the requirement with the originator, recommendations regarding feasibility and cost effectiveness, what computer resources and man-hours the project shall require, projected delivery date, and the consequences of the proposed change. The contractor shall support the Government in initiating system interface engineering and modification efforts to implement Baseline Change Requests (BCR) according to the priority established by the CMP and CCB. The contractor shall ensure that all interface engineering and modification efforts comply with DOD Directive 8320.2, Data Sharing in a Net-Centric DOD, DOD Net-Centric Data Strategy, and standards set forth in the USTRANSCOM Defense Transportation System (DTS) Enterprise Architecture (EA).

Deliverable: IDD

1.3.6 Task Area 6 – Maintenance.

1.3.6.1 Task Area 6 Subtask 1 – Software Maintenance.

1.3.6.1.1 AMP Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP. The contractor shall maintain the Federation data objects and run infrastructure, and adapt to changes in the component models. In addition, the contractor shall keep information found on the AMP webshare site current. These duties shall include keeping the web pages updated with the latest downloadable AMP software releases, sample data, and AMP User Group materials.

1.3.6.1.2 AMP-PAT Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP-PAT. Due to an increased number of software fixes the functional community requires to be implemented within AMP-PAT that was beyond the level anticipated when Task Order 0003 was issued, 509 hours are being added to this task.

1.3.6.2 Task Area 6 Subtask 2 – System Maintenance.

1.3.6.2.1 AMP System Maintenance. The contractor shall provide on-going support to maintain normal system operations. Normal operation for the system is interpreted to mean that the system software is available except during periods of routine maintenance or when software is released. The PM, after coordinating with the functional users, will approve the timing of any non-emergency system downtime for hardware and software maintenance. The contractor shall restore the maintained software to normal operation whenever the contractor is informed such normal operation has been interrupted. Software maintenance also includes those changes that are required to correct the performance of functions described in existing system or software documentation.

1.3.6.2.2 AMP-PAT System Maintenance. The contractor shall provide on-going support to maintain normal system operations. Normal operation for the system is interpreted to mean that the system software is available except during periods of routine maintenance or when software is released. The PM, after coordinating with the functional users, will approve the timing of any non-emergency contractor downtime for hardware and software maintenance. The contractor shall restore the maintained software to normal operation whenever the contractor is informed such normal operation has been interrupted. Software maintenance also includes those changes that are required to correct the performance of functions described in existing system or software documentation.

1.3.6.3 Reserved.

1.3.6.4 Reserved.

Deliverable: Program Metadata

1.3.7 Task Area 7 – System Administration. The contractor shall provide on-site SA support to USTRANSCOM functional users for the system. This includes the following activities:

- Plan, schedule and install new or modified hardware and software, to include system patches, updates, and enhancements for the system servers. Troubleshoot AMP installation problems.
- Support installation, optimization, backup, recovery, modification and upgrade of software. Debug AMP software and support testing of software releases (i.e., support of GWT and UAT).
- Monitor operational system performance and recommend possible improvements.
- Accomplish routine system maintenance functions running backups and coordinating hardware repair/replacement.
- Provide technical support for system reengineering efforts.
- Work with Government security and networking personnel on system-related issues.
- Support the Technical Assessment activities and provide required updates.

The contractor shall update the system administration manual to support the system. The contents of the manual shall include, but not be limited to, account administration; software installation; obtaining, generating, and updating

reference files, shared drives, and web pages; troubleshooting and resolving operating system conflicts, maintaining logs, and creating reports, as required.

Deliverable: System Administration Manual

1.3.7.1 Task Area 7 Subtask 1 – AMP Federation Model User Training. The contractor shall provide AMP Federation Model training once per FY. Training shall be on the use of the AMP Federation modeling tools. USTRANSCOM will coordinate and provide the training classroom (including hardware) if such training is required. Training shall be consistent with industry standards and result in the trainees' full understanding of the capabilities and the designed use of the associated software applications and Graphic User Interfaces. An increase in AMP-PAT functional requirements for user training has resulted in an increase of 212 hours for this task.

1.3.8 Task Area 8 – Information Assurance (IA). The contractor shall establish an IA Program to implement and sustain appropriate IA management, operational, and technical controls and processes as required to ensure compliance with DOD and Chairman Joint Chiefs of Staff (CJCS) requirements, and Joint Task Force – Global Network Operations (JTF-GNO) taskings. The contractor shall submit for Government approval an overarching security plan that describes their strategy for implementation of IA and Industrial Security requirements throughout the life of the contract. The contractor shall ensure that information system security engineering (ISSE) is employed to develop or modify any IA component of the system architecture. Such modifications will be made in compliance with all analogous or interfacing IA component(s) of the GIG Architecture and will be designed to make maximum use of the DOD enterprise IA capabilities and services. The contractor also shall support periodic Government inspections and reviews to ensure compliance with DOD IA requirements throughout the contract performance period. Contractor IA Program capabilities shall include but not be limited to processes and procedures for vulnerability management, patch management, incident response, Information Condition (INFOCON) response, application security configuration management, risk management, and situational awareness.

1.3.8.1 Task Area 8 Subtask 1 – IA Design. The contractor shall protect and prevent unauthorized access to Government sensitive unclassified and classified data and IT resources supporting the system. The contractor shall ensure appropriate IA controls are designed, developed and implemented to provide for non-repudiation, confidentiality, integrity, and availability of Government systems, applications, and data. The contractor shall leverage, to the maximum extent possible, automated tools to identify and remediate vulnerabilities or weaknesses in the system design and coding that could be exploited or that may result in system or data compromise. The contractor shall work with other DOD activities and vendors as required to implement these IA controls. The contractor shall perform vulnerability management activities as part of all AMP development and sustainment. The contractor shall coordinate with the AMP PM to document the installation of vendor security patches or support Government development of a Plan of Action & Milestones (POA&M) when patches cannot be applied. In coordination with the PM, the contractor shall design, develop and implement secure AMP applications and configurations through applying applicable DOD security technical implementation guides (STIGs), checklists, vendor security guidance, industry best practices, and applicable vendor product security patches. The contractor shall ensure AMP applications are in compliance with DODI 8551.1 and leverage approved ports, protocols and services.

1.3.8.1.1 Security Engineering. The contractor shall evaluate AMP system components, applications, and operating systems to ensure security issues are identified and addressed. Contractor personnel assigned to perform this task shall be designated Information Assurance Technician Level I (IAT-I) to facilitate the design, development, and evaluation of AMP IA technical controls. The contractor shall provide copies of the required certification(s) applicable for IAT-I to the AMP PM and COR within six months of contract award.

1.3.8.1.1.1 Applicability. The contractor shall continue to monitor and analyze Information Assurance (IA) Vulnerability Management (IAVM) Notices, USTRANSCOM Security Notifications, United States Computer Emergency Readiness Team (US-CERT) Security Bulletins, and vendor security advisories to determine applicability to AMP.

1.3.8.1.1.2 Recommendations. The contractor shall analyze applicable security bulletins to determine system impact, identify mitigating factors, and develop recommendations to the Government regarding potential courses of

action. Contractor recommendations shall be compliant with AMP, USTRANSCOM and DOD security requirements. The contractor shall ensure that patch deployments and other significant security activities are documented in the IMS. The contractor assigned to this contract shall maintain certification under the requirements of DOD 8570.01-M.

The contractor shall forward an initial analysis and assessment "quick-look" for high impact (risk) advisories (based on the Security Technical Implementation Guide (STIG) Finding Severity Category listed in the IA Vulnerability Advisories (IAVAs), IA Vulnerability Bulletins (IAVBs) and Technical Advisories (TAs)) to the PM and AMP Systems Engineer within 2 business days via Classified e-mail. All STIG Finding Severity Category I and II IAVAs, IAVBs and TAs are considered high impact. In addition, the contractor shall prepare an analysis for other than high impact advisories and provide it to the AMP Systems Engineer within seven working days via e-mail. The contractor also shall provide a summary of security analysis and assessment results during weekly teleconferences and an update in the program monthly report.

Deliverables: High Impact Risk Advisories, Other Risk Advisories, Security Summaries

1.3.8.2 Task Area 8 Subtask 2 – Security Testing. The contractor shall ensure appropriate security requirements are included as part of the AMP requirements traceability matrix and whenever possible, shall support Government Security Test and Evaluation (ST&E) in conjunction with scheduled system development and acceptance testing. As part of the contractor's change control process, the contractor shall ensure participation by the IA-qualified representative to evaluate the impact of each change on security. The contractor shall document the results of this evaluation. When directed by the PM, the contractor also shall test vendor security patches for AMP production systems and applications to assess their impact on system functionality prior to their installation.

1.3.8.3 Task Area 8 Subtask 3 – DOD Information Assurance Certification and Accreditation Process. The contractor shall assume responsibility for management and update of existing system security documentation that were developed to facilitate AMP's security accreditation in accordance with DODI 8510.01. The contractor shall perform security certification activities as required to maintain current system accreditation and support re-accreditation. The contractor shall support USTRANSCOM's use of the DOD Enterprise Mission Assurance Support Service (eMASS) system for automated accomplishment of the certification and accreditation process. The contractor shall update eMASS as required and provide supporting IA documentation for upload as artifacts in eMASS.

As a minimum, the contractor shall ensure compliance with applicable provisions of DOD Directive (DODD) 8500.1, Information Assurance; DOD Instruction 8500.2, Information Assurance Implementation; DODD 8570.1, Information Assurance Training, Certification and Workforce Management; CJCS Manual 6510.01, Defense-in-Depth: IA and Computer Network Defense (CND); DODI 8520.2, PKI and Public Key (PK) Enabling; DODI 8551.1, Ports, Protocols, and Services Management (PPSM); DODI 8510.01, DOD Information Assurance Certification and Accreditation Process (DIACAP), and DOD 8570.01-M, Information Assurance Workforce Improvement Program.

AMP has been designated Mission Assurance Category (MAC) III classified for the purposes of applying IA controls.

The contractor shall develop and maintain the documentation listed below to support DIACAP accreditation decisions. Contractor IA personnel assigned to support the completion of the Certification and Accreditation documentation below shall be qualified as an Information Assurance Technician Level I (IAT-I), per DOD 8570.01-M. The contractor shall provide copies of the required certification(s) applicable for IAT-I to the JFAST PM and COR within six months of contract award.

The Information Assurance and Industrial Security Plan (IA&ISP) shall serve as the overarching document. The contractor shall deliver the other documents listed below as appendices to the IA&ISP.

NOTE: Items marked by asterisks connote templates that the Government will provide for the contractor to complete.

High Impact Risk Advisories
Other than High Impact Risk Advisories
Security Summaries
Audit Design Artifact *
Cryptographic Subsystem Artifact *
IA Acquisition Artifact *
Identification and Authentication Subsystem Artifact *
Incident Response Plan (IRP) Artifact *
Interconnections Artifacts *
Personnel Security Artifact *
Remote Access Artifact Security *
Security Design Document (SDD) Artifact *
Security Test Plan (STP) Artifact *
Vulnerability Management Plan (VMP) Artifact *
Physical and Environmental Artifact *
System Classification Guide
System Security Policy
Risk Management Review Report

Deliverables: IA&ISP (and associated appendices)

1.3.8.4 Task Area 8 Subtask 4 – Information Assurance Training. Contract employees physically assigned to USTRANSCOM and USTRANSCOM Component Commands (TCC) at Scott AFB shall attend/complete security training as prescribed by DOD and USTRANSCOM/TCC instructions. At a minimum this includes: Employee Initial Security Training, Annual Security Awareness Training, Operations Security (OPSEC), DOD Antiterrorism Level 1 Training, Personally Identifiable Information (PII) Training and any Security Stand-Down Day Training scheduled by the Commander. Contract employees assigned elsewhere shall attend security training established by their respective government security offices and/or installations.

Deliverable: Contractor Security Training Documentation

1.3.8.5 Task Area 8 Subtask 5 – Information Assurance Workforce Improvement Program (IAWIP). The contractor shall:

- a. Ensure that personnel accessing information systems have the proper and current information assurance certification to perform information assurance functions in accordance with DOD 8570.01-M, IAWIP. The contractor shall meet the applicable information assurance certification requirements, including:
 - 1) DOD-approved information assurance workforce certifications appropriate for each category and level as listed in the current version of DOD 8570.01-M; and
 - 2) Appropriate operating system certification for information assurance technical positions as required by DOD 8570.01-M.
- b. Upon request by the Government, the contractor shall provide documentation supporting the information assurance certification status of personnel performing information assurance functions.
- c. Contractor personnel who do not have proper and current certifications shall be denied access to DOD information systems for the purpose of performing information assurance functions.

Deliverable: Contractor IAWIP Certification Documentation

1.3.9 Task Area 9 – Contingency Operations. The contractor shall support AMP PM development or revision of the System Contingency Management Plan. At its discretion, the AMP PM will provide drafts of this document upon which the contractor shall be requested to review and comment.

1.3.9.1 Task Area 9 Subtask 1 – Technical Assessment Documentation and Support Requirements. The contractor shall provide the necessary support, to include documentation and advice to meet the USTRANSCOM security and technical requirements of the USTRANSCOM Technical Assessment process.

Deliverable: Technical Assessment Documents

1.3.10 Task Area 10 – Configuration Management. This support is required to meet the DIACAP and USTRANSCOM technical and security requirements. The CM process facilitates orderly configuration identification, change identification and control, status reporting, and configuration auditing of product information for such beneficial purposes as to revise capability and improve performance, reliability, or maintainability; extend life; reduce cost; reduce risk and liability; or reduce defects. CM involves identifying the configuration items of products developed and delivered to the customer, systematically controlling changes to the configuration, maintaining configuration traceability, and minimizing adverse effects to AMP interfaces with external systems. The contractor's CM processes must complement the Government CM processes.

1.3.10.1 Task Area 10 Subtask 1 – Configuration Manager Responsibilities. The contractor's Configuration Manager shall develop a CMP and processes that are consistent with and complements the Government CMP and processes. The contractor's Configuration Manager shall establish and maintain the following:

- Baselines (versioning)
- Configuration identification
- Change control
- Configuration status accounting
- CM audits
- CM Repository
- Delivery Process

Deliverable: Configuration Management Plan

1.3.10.2 Task Area 10 Subtask 2 – Configuration Identification. The contractor shall provide configuration identification as specified in its CMP. This identification may include hardware configuration items and software configuration items. All configuration items must be uniquely identifiable by use of a configuration item number and nomenclature.

Deliverable: Updated Configuration Item Listings

1.3.10.3 Task Area 10 Subtask 3 – Change Control. The contractor shall provide change control for all AMP baselines and configuration items to include documentation, commercial off-the-shelf (COTS) software, application, source, and executable code. The contractor shall provide an automated configuration management tool to assist in this effort. The contractor shall allow Government web access to the contractor's CM tool to ensure Government oversight of the change process. This tool shall allow the Government to track change requests and problem reports and their status. Additionally, the contractor shall provide a process to allow AMP users to request software improvements and development of new AMP capabilities.

1.3.10.3.1 Evaluating Requested Changes. The contractor shall document the evaluation of all change requests and problem reports. Evaluations include, but are not limited to, requirements analysis, and clarification of the requirement with the originator, determining if the requirement is feasible, what computer resources and man-hours the change or resolution of the problem shall require, its adherence to standards, and the impacts of the proposed change or cure for the problem. In addition, the contractor shall ensure participation by a qualified IA representative to evaluate the impact on security of each change or problem cure. The contractor shall document the results of these evaluations and provide them to the AMP PM for evaluation. Due to an increase in the number of AMP-PAT change requests and problem reports beyond that anticipated when Task Order 0003 was issued, 112 hours have been added to this task.

Deliverable: Change Request Evaluation Reports

1.3.10.3.2 Reserved.

1.3.10.3.3 Configuration Status Accounting. The contractor shall provide status of all baselines, configuration items, and all outstanding change requests and software problem reports.

Deliverable: Status Accounting Reports

1.3.10.3.4 CM Audits. The contractor shall conduct a physical configuration audit (PCA) and functional configuration audit (FCA) of each code baseline/release delivered to the PMO.

A PCA examines the actual configuration of an item being produced. It verifies that the related requirements, design and test documentation matches the item being released as specified in the contract.

The FCA is the formal examination of the as-tested characteristics of a configuration item (hardware and software) with the objective of verifying that actual performance complies with design and interface requirements in the functional baseline. It is essentially a review of the configuration item's test/analysis data, including software unit test results, to validate the intended function or performance stated in its specification is met. For the overall system, this would be the system performance specification.

The contractor shall confirm that the contractor CM team has performed both a PCA and an FCA by adding the following statement to the transmittal document when any software version is released to the Government: "The contractor CM team has completed both a PCA and an FCA for the software version described in this letter of transmittal."

1.3.10.3.5 Delivery Process. All deliverables shall be made electronically via e-mail to USTCJ6-PCM@USTRANSCOM.MIL. If the contractor submits a deliverable via e-mail and its delivery fails, the contractor shall provide a Secure File Transfer Protocol (SFTP) site that allows the Government CM to download the deliverable. If a site is not available or not feasible, the Government will make one available to the contractor. In case no sites are available, the Contractor shall deliver the deliverable via compact disk or digital videodisk (CD/DVD). The CD/DVD must be properly labeled to identify the content to include version number and date.

1.3.11 Task Area 11 – Enhancements. The contractor shall provide the following new software and enhancements to the existing AMP application. Paragraph numbers below are consistent with those found in the basic Indefinite Delivery (ID) / Indefinite Quantity (IQ) contract, HTC711-10-D-S002, but may not sequentially follow each other due to changes in functional priority. The paragraph numbering for those enhancements that do not appear in the basic contract sequentially follow the paragraph numbers for enhancements listed in Task Order 0002 of this contract.

1.3.11.21.2 Joint Mobility Closure Estimator Integration (JMCE). The contractor shall develop the capability to import data from an AMP Federation run into the JMCE modeling tool.

Deliverable: Software Release

1.3.11.22 Surface Modeling. The contractor shall design, develop, and test the following surface modeling tasks into AMP.

1.3.11.22.1 The contractor shall provide a single, merged GUI for all model inputs. The developer shall provide a single GUI for critics, reporting methodologies, metrics, Master Scenario Events List (MSEL), and Route Viewing.

1.3.11.22.2 The contractor shall provide the capability to archive runs of record.

1.3.11.22.3 The contractor shall develop the capability within AMP to model a port that performs the combined functionality of both an airport and a seaport.

1.3.11.22.4 The contractor shall provide a construct for enhanced cargo detail editing with the AMP Requirements Editor. This new capability shall permit the user to edit Levels 3 and 4 cargo details directly in the Requirements Editor.

1.3.11.22.5 The contractor shall develop the capability for the model to load at Level 4 detail.

1.3.11.22.6 The contractor shall develop the capability to model operating hours defined in local time zones.

1.3.11.22.7 The contractor shall provide integration of all Surface Modeling functionality within the AMP Federation in order to properly model end-to-end operations with all model components.

1.3.11.22.8 The contractor shall support multiple runs in a Virtual Machine (VM), as well be able to view the run results without replaying the run.

The contractor shall deliver an AMP application containing the surface distribution modeling attributes described in Paragraph 1.3.11.22 and its subparagraphs.

Deliverable: Software Release

1.3.11.23 AMP MIDAS Support and Integration. The contractor shall integrate enhancements to the MIDAS application into the AMP Federation. The AMP developer shall coordinate with the MIDAS developer to understand the new capabilities provided by each MIDAS release, support the integration of new MIDAS releases into the AMP Federation, maintain file writers in AMP to support new releases of MIDAS, and work with the MIDAS developer to understand new inputs to MIDAS. Expected MIDAS releases include enhanced support for theater air/sealift modeling, and a more detailed supply plan. MIDAS requirements and priorities shall be determined at the annual AMP User's Group. The Government will coordinate with the MIDAS PMO for MIDAS enhancements to support the AMP Federation.

Deliverable: Software Release

1.3.11.24 AMP ELIST Support and Integration. The contractor shall integrate enhancements to the ELIST application into the AMP Federation. The AMP developer shall coordinate with the ELIST developer to understand the new capabilities provided by each ELIST release, support the integration of new ELIST releases into the AMP Federation, maintain file writers in AMP to support new releases of ELIST, and work with the ELIST developer to understand new inputs to ELIST. Expected ELIST releases include enhanced support for theater air/sealift modeling, and a more detailed supply plan. ELIST requirements and priorities shall be determined at the annual AMP User's Group. The Government will coordinate with the ELIST PMO for ELIST enhancements to support the AMP Federation.

Deliverable: Software Release

1.3.11.25 AMP Reports/Results. The contractor shall continue to design, develop and test feedback of interim and final AMP Federation results. This includes reports, results viewing and graphs.

1.3.11.25.1 Scenario Reports. The contractor shall develop additional reports to support inventory levels, demand projections, and supply chain statistics, asset utilization, unit closure and port utilization.

Deliverable: Software Release

1.3.11.26 AMP Critics. The contractor shall continue to design, develop, and test AMP 'Critics.' These include pre-run checks on AMP setup data and post-run checks on Federation results.

Deliverable: Software Release

1.3.11.27 AMP Mapping Support. The contractor shall continue to design, develop, and test mapping support in AMP. The contractor shall keep AMP up-to-date with OpenMap releases and will continue to add key setup and run time information on the map.

Deliverable: Software Release

1.3.11.27.1 Requirement and Cargo Increment Number (CIN) Map Enhancements. The contractor shall develop functionality to provide a Plan Versus Actual (PVA) graphical display on a map for deliveries of passengers, Unit Equipment (UE) and sustainment (resupply, ammunition and POL). On a map that includes selectable destinations from the TPFDD and sustainment destinations from the AMP sustainment setup GUI, the user will be able to toggle on individual destination locations and at that location vertical bars will appear for PAX, UE and various types of sustainment (the user can toggle which destinations and what commodities are shown). One bar will show the requirement up to that point of the deployment and one bar will show deliveries of that commodity up to that point in time as indicated on a horizontal slider bar. The PVA bars will change over the deployment time period as controlled by a horizontal slider bar. The contractor shall also make the theaters selectable to enable the user to select and view a PVA for a particular theater.

Deliverable: Software Release

1.3.11.28 AMP-PAT Model, MIDAS, ELIST and Land, Air and Sea Warfight Model Federation Integration. The contractor shall continue to support integration of key models in AMP and keep the Federation up-to-date with AMP-PAT Model, MIDAS, ELIST and appropriate land, air and sea warfight model releases.

1.3.11.28.1 AMP-PAT Model Integration. The contractor shall develop the functionality to dynamically integrate the SST into the AMP Federation.

Deliverable: Software Release

1.3.11.29 AMP CONUS-ELIST-MIDAS Integration. The contractor shall continue to enhance, develop, and test integration of CONUS-ELIST with MIDAS in AMP. This task will be bounded by the ability of the MIDAS model to dynamically exchange data with CONUS-ELIST.

Deliverable: Software Release

1.3.11.32 (Optional Task) Collect and Analyze Data. The contractor shall develop software that will automatically organize and insert into AMP cleansed, historical sustainment demand and transportation requirements data from the Global Decision Support System (GDSS), Global Air Transportation Execution System (GATES), Worldwide Ports System (WPS), Strategic Distribution Database (SDDDB), and Integrated Data Environment (IDE) systems/sources. The user will extract the required data from these systems into a file that then will be imported into AMP.

Deliverable: Software Release

1.3.11.61 Cost Modeling. The contractor shall provide a capability for adding cost factors that will allow tracking of the costs for each movement. This would include, but not be limited to, costs associated with loading/offloading, transport, and vehicle request.

Deliverable: Software Release

1.3.11.62 (Optional Task) End To End Modeling (ETEM). The contractor shall research, develop, and deliver software and documentation for an end-to-end modeling capability of strategic and regional/tactical simulation and optimization that will operate within the AMP Federation, as well as improve the analysis capability of the existing simulation models. The contractor also shall research advanced capabilities that can support very large optimization problems. This research and development effort will be split into two years; FY11 will be primarily focused on

research, design, and initial development; FY12 will be focused on final development, integration, testing, and software delivery.

1.3.11.62.1 Develop Strategic Optimization/Scheduling Model. The contractor shall conduct research and development activities to determine enhanced methods to conduct programmatic analysis to include optimal modeling techniques to support optimized deployment and distribution movement analysis, increased analyst effectiveness and decreased model execution time for strategic modeling. The contractor shall create and deliver an enhanced and optimized Origin to Destination optimal scheduler prototype by enhancing the heuristics within the current MIDAS model and adding an optimization routine that would reduce the search space for the heuristics, and support a modeling nodal link auto-setup for the model. The optimization shall provide optimal route sets and quantities of cargo and passengers that should flow through these route sets to the MIDAS scheduler, which would continue to schedule the strategic flow to the theater. The enhanced ETEM scheduler shall provide the initial optimized plan that would feed the simulation startup conditions.

1.3.11.62.1.1 Scope the Problem. The contractor shall research the data and level of fidelity required to create the enhanced strategic scheduler (vehicles, ports, cargo, etc.), and consolidate the data to support cost and constraint equations. The contractor shall establish the feasibility of proposed solution(s), identifying constraints, and determining whether (and level of) multiple optimization passes are required. The contractor shall research and establish objective formulas and evaluate options to support weighted, multi-objective function capability (closure time, cost, risk, lateness, etc.). The contractor shall document the data, preliminary design, and constraints of the alternatives in the Concept Document deliverable. The contractor shall determine and document the data required for the strategic scheduler, compare the required data to the available strategic data from AMP, and identify any shortfalls. The contractor shall document the planned approach in the Concept Document deliverable. The FM and PM will review and approve this Document and will decide as to the most favorable approach.

Deliverable: Strategic Optimization/Scheduling Model Concept Document

1.3.11.62.1.2 Develop Functional Design Specification. The contractor shall document the strategic model in draft specification and design documents. The contractor shall describe the effectiveness and efficiency of 'look ahead' for strategic scheduling, when/if user feedback is appropriate to refine the scenario, the inclusion of sustainment flow for multiple theaters with deployment flows, and identification of points to re-optimize the strategic network.. The contractor shall describe how multiple objective functions and their interaction are to be measured. The contractor then shall document the approach used to develop the tool in the Design Specification. The PM will review and approve the Design Specification before strategic model development begins.

Deliverable: Draft Strategic Model Design Specification

1.3.11.62.1.3 Optimization Process. The contractor shall begin development of an ETEM strategic scheduler that will create an enhanced heuristics algorithm that will support a mode and port selection process and speed up the current MIDAS heuristics and model setup. The contractor shall ensure that these enhanced heuristics provide the optimal set of airports and seaports to be used for the multi-mode/port selection process for the given scenario. The software to be developed during FY12 shall incorporate the capabilities outlined in paragraph 1.3.11.62.1.3 and its sub paragraphs.

1.3.11.62.1.3.1 Implement Model Generator. The contractor shall build an interface to handle data for the optimization solver, and incorporate sustainment inventory optimization, such as the location and levels of stock, refreshing stock during execution, etc.

1.3.11.62.1.3.2 Collect Data for the Optimization Model. The contractor shall develop the capability to stop the model, collect necessary data, and provide the data to the optimization model.

1.3.11.62.1.3.3 Disseminate Optimization Model Results. The contractor shall develop the infrastructure to package the optimization results and provide the data to the AMP model.

1.3.11.62.1.3.4 Development of 2-way Communications Component. The contractor shall provide the optimized strategic solution to AMP in a suitable format (to include the port, mode, flow, period) for use in the heuristic scheduler.

1.3.11.62.1.3.5 Development of Model Controller for AMP Integration. The contractor shall deliver the capability for full control of the strategic optimization/scheduling model in the Model Controller.

1.3.11.62.1.3.6 Develop User Front End. The contractor shall build an interim user interface to set up various look-ahead combinations, effect model inputs, establishing objective function formulation of multiple objectives, and monitoring the optimization results.

1.3.11.62.1.4 Update Model State with Optimization Model Results. The contractor shall use the optimization results to make appropriate updates to the model state. The contractor shall document how the optimization results update the model state in the Strategic Model Design Specification.

1.3.11.62.2 Develop Regional/Tactical Optimization Models. The contractor shall conduct research and development activities to determine enhanced methods to conduct programmatic analysis to include optimal modeling techniques to support optimized deployment and distribution movement analysis, increased analyst effectiveness and decreased model execution time for regional/tactical models. The contractor shall create and deliver Origin to port of embarkation (POE) and port of debarkation (POD) to Destination regional prototype optimization models for the front end and back end of the End-to-End process that supports the scheduling of non-strategic simulated operations.

1.3.11.62.2.1 Scope the Problem. The contractor shall research the data and level of fidelity required to create the enhanced regional/tactical scheduler, and consolidate the data to support cost and constraint equations. The contractor shall determine appropriate periods (how often) and depth (how far) to look-ahead to solve regional scheduling problems, and research the appropriate scheduling scheme (heuristics or optimization). The contractor shall document data, constraints, and preliminary model design. The contractor shall determine and document the required data for both the Origin to POE and POD to Destination planners, compare the required data to the available regional schedule data from AMP and identify any shortfalls. The contractor also shall document the planned approach in the Concept Document deliverable. The FM and PM will review and approve this Document and will decide as to the most favorable approach.

Deliverable: Regional/Tactical Optimization Scheduling Model Concept Document

1.3.11.62.2.2 Develop Functional Design Specification. The contractor shall document the regional/tactical model in draft specification and design documents. The contractor shall describe the effectiveness and efficiency of 'look ahead' for regional/tactical scheduling, the item movement data (mode, routes) to be used, when/if user feedback is appropriate to refine the scenario, the inclusion of sustainment flow for multiple theaters with deployment flows, and identification of points to re-optimize the regional/tactical network.. The contractor shall describe how multiple objective functions and their interaction are to be measured. The contractor then shall document the approach used to develop the tool in the Design Specification. The PM will review and approve the Design Specification before development of the regional/tactical model begins.

Deliverable: Draft Regional/Tactical Model Design Specification

1.3.11.62.2.3 Optimization of Node and Mode Selection. The contractor shall deliver a regional optimized ETEM planner that will use optimization techniques and enhanced algorithms to support the origin to POE and POD to destination optimization for the regional flow of requirements. The software to be developed during FY12 shall incorporate the capabilities outlined in paragraph 1.3.11.62.2.3 and its sub paragraphs.

1.3.11.62.2.3.1 Develop Method for Strategic and Regional Optimization Schemes to Interact and Communicate. The contractor shall align the solution of the strategic end-to-end optimization results with the CONUS and theater regional components.

1.3.11.62.2.3.2 Implement Model Generator. The contractor shall build an interface to handle data for the optimization solver, and build a feasible schedule from the flow solution (by heuristics or other method).

1.3.11.62.2.3.3 Collect Data for the Optimization Model. The contractor shall develop the capability to stop the model, collect necessary data, and provide the data to the optimization model.

1.3.11.62.2.3.4 Disseminate Optimization Model Results. The contractor shall develop the infrastructure to package the optimization results and provide the data to the AMP model.

1.3.11.62.2.3.5 Development of 2-way Communications Component. The contractor shall provide the optimized strategic solution to AMP in a suitable format (to include the port, mode, flow, period) for use in the heuristic scheduler. The contractor shall coordinate the optimal flow with AMP implementation, providing data for AMP to execute and reporting appropriate information to the strategic planning module.

1.3.11.62.2.3.6 Development of Model Controller for AMP Integration. The contractor shall deliver the capability for full control of the regional/tactical optimization/scheduling model in the Model Controller.

1.3.11.62.2.3.7 Develop User Front End. The contractor shall build a user interface to set up various look-ahead combinations, effect model inputs, establishing objective function formulation of multiple objectives, and monitor the optimization results.

1.3.11.62.2.4 Update Model State with Optimization Model Results. The contractor shall use the optimization results to make appropriate updates to the model state. The contractor shall document how the optimization results update the model state in the Regional/Tactical Model Design Specification.

1.3.11.62.2.5 Validate Model Results and Overall Algorithmic Performance. The contractor shall validate the model results and overall performance, to include improvements to the code for speed, reduced memory requirements, and key information used by the optimization module.

1.3.11.62.3 Improve Analysis of Existing Simulation Models through Simulation and Optimization. The contractor shall design the model to automatically search the feasible solution space using a genetic algorithm or some other appropriate search technique to create and execute a design of experiment that would lead to an optimal answer for certain study types. The intent of this is to optimize the analyst's time needed to conduct the required model runs.

1.3.11.62.3.1 Input Parameter Selection. The contractor shall deliver and document a model to determine the best combination of model input parameters using a genetic algorithm or other appropriate search technique to automatically set up and execute the model runs required to find an optimized solution.

1.3.11.62.3.2 AMP Runner. The contractor shall provide the documentation of the modeling optimization process to include construction of appropriate fitness functions, parameters that may be chosen to vary and their possible ranges, and other components of the simulation optimization process. The contractor shall specify how the model will optimize the simulation process.

1.3.11.62.3.2.1 AMP Runner: Design Specification. The contractor shall deliver appropriate specification documentation on the analysis of the model's performance and algorithm, and develop and document a genetic algorithm (or other search scheme) to provide an intelligent search method within the search space.

Deliverable: Draft Simulation Optimization Design Specification

1.3.11.62.3.2.2 AMP Runner: GUI Capability. The contractor shall design a GUI to enable the setup of search space parameters, fitness measure, and document the code and approach with key information used by the optimization module in the Design Specification.

1.3.11.62.3.2.3 AMP Runner: Implementation. The contractor shall design and begin development of a distributed running capability that will ‘farm out’ AMP runs on available machines or threads, use a database to support multi-run results, and improve the code for speed and reduced memory requirements.

1.3.11.62.4 Research and Develop a Scalable Optimization Prototype. The contractor shall develop and deliver a VLO Survey and Architecture Design Report and begin development of a software prototype that can be scaled to support very large optimization (VLO) problems.

1.3.11.62.4.1 Research Current Methods and Technologies. The contractor shall survey and research current methods and technologies that support the architecture to solve VLO problems. The contractor shall include the methodology and results of its survey and research efforts, and its design for an architecture suitable to support VLO problems, in the VLO Survey and Architecture Design Report. The PM will review and approve the VLO design contained in this Survey and Design Report before development of the scalable optimization prototype begins.

Deliverable: VLO Survey and Architecture Design Report

1.3.11.62.4.2 Develop a Scalable Optimization Prototype. The contractor shall document and begin development of a scalable software optimization prototype for VLOs using existing hardware, develop administrative tools to adjust settings of prototype optimization capabilities, develop and test a conceptual client front end GUI, and test optimization prototype performance, to include scalability parameters, hardware sensitivity, and software changes. The contractor shall document the prototype in the Architecture Document deliverable.

1.3.11.63 (Optional Task) Distribution Performance Nodal Model (DPNM). DPNM shall provide a highly-configurable, agile capability to model, simulate, analyze, and report metrics for the complex and detailed business processes within a distribution center to support improved decision making for resource acquisition and allocation, stock placement, nodal infrastructure requirements, and sustainment policies. The contractor shall deliver a final project report that contains the results of the DPNM task efforts, including code and system status, conclusions, and recommendations.

Deliverable: Final Project Report

1.3.11.63.1 Integrate the Logistics Process Analysis Tool (LPAT) into the AMP Federation. The contractor shall integrate the LPAT modeling capability into the AMP Federation of models. The contractor shall provide the capability for LPAT to be easily integrated into the AMP Federation and run seamlessly with the other model federates. The contractor shall ensure that the models exchange data back and forth correctly, and that the output from LPAT is included in the overall Federation output files, reports, and graphs. The contractor shall submit a DPNM Software Design Specification that addresses the integration of the LPAT Tool into the AMP Federation.

Deliverables: Integrated DPNM Software Design Specification, Software Release

1.3.11.63.2 Prototype Nodes. The contractor shall create a collection of prototype distribution nodes. These prototypes will enhance the USTRANSCOM modeling capability.

1.3.11.63.2.1 The generic node prototypes shall include:

- Theater Consolidation Shipping Points (TCSP)
- Container Consolidation Points (CCP)
- Inventory Control Point (ICP)
- Warehouses
- Material Processing Centers (MPC)
- Deployable Depots
- Joint Task Force Port Opening operations.

1.3.11.63.2.2 The specific node prototypes shall include (potential sites):

- Large Warehouse/CCP: (Defense Depot Susquehanna, Pennsylvania (DDSP))

- Medium Warehouse: (Defense Supply Center, Richmond, Virginia (DSCR))
- CCP (Ocean Service): (Norfolk Container Freight Station (CFS))
- TCSP: (Germersheim, Germany Defense Distribution Center (DDDE))

Deliverable: Prototype Node Data for DPNM

1.3.11.63.3 Validate the Model Results and Performance. The contractor shall test the model with appropriate prototype node data to ensure proper modeling and functionality of node constructs. The contractor shall produce a Test Plan and test the model in conjunction with the AMP Federation of tools to ensure proper import and export of data in the end-to-end modeling. The output and operational characteristics of the model will be presented to a panel of Subject Matter Experts for validation of the process and outputs. The contractor shall produce a Test Report that documents the results of the test, including performance against the performance criteria established in the Test Plan.

Deliverables: Test Plan, Test Report

1.4 Deliverables. The contractor shall provide all deliverables electronically to the PM; the deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software, with the exception of source code, which the contractor shall provide in native code language. The contractor shall upload files directly into the USTRANSCOM-provided provided Joint Deployment Planning and Analysis Center webshare. If the contractor is unable to load the deliverable file(s) on the webshare, then the contractor shall provide a soft copy of each deliverable to each of the following organizational e-mail accounts: ustcj6-p-cm@ustranscom.mil and ustcj6-pc-ms@ustranscom.mil. Should this second method of transmittal prove unsuccessful, the contractor shall provide the required deliverables on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. "Format", as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Due Date
1.3.1.1	TOMP	Government-Determined	30 calendar days after Task Order award; Updates due 30 calendar days after receipt of each subsequent Task Order award	15 calendar days from receipt of Government comments
1.3.1.2	MSR	Government-Determined	N/A	10 th calendar day of each month; Final to be provided NLT the last day of the contract
1.3.1.3	Presentation Materials, IPR Meeting Minutes and Slides	Government-Determined	Presentation Materials due 2 days prior to IPR	5 days after IPR
1.3.1.4	IMS	Contractor and Government-Determined	10 days after Task Order award; Updated monthly (include with MSR) or when schedule changes	5 calendar days from receipt of Government comments
1.3.1.6	Variance Report	Contractor-Determined	N/A	As applicable

1.3.4.1	Database Design Description	Contractor-Determined Format	NLT 45 calendar days prior to scheduled initial delivery of software; One Soft Copy (e-mailed)	NLT 10 days after receipt of Government comments
1.3.4.1	Software Requirement Specification (SRS)	Contractor-Determined Format	NLT 30 calendar days prior to scheduled initial delivery of software	NLT 10 days after receipt of Government comments
1.3.4.1	Data Dictionary	Contractor-Determined Format	NLT 30 calendar days before scheduled initial delivery of software	NLT 10 days after receipt of Government comments
1.3.4.2	Software Test Plan	Contractor - Determined Format	30 calendar days before scheduled initial delivery of software	NLT 10 calendar days after receipt of Government comments
1.3.4.2	Software Test Cases	Contractor - Determined Format	30 calendar days before initial delivery of software	NLT 10 calendar days after receipt of Government comments
1.3.4.2	Software Test Reports	Contractor - Determined Format	N/A	NLT 7 calendar days following completion of system test
1.3.4.3	Software VDD	Contractor-Determined Format	NLT 60 calendar days prior to scheduled initial delivery of software	At ORR
1.3.4.3, 1.3.11 and subparas	Software Release	Contractor-Determined Format	Initial delivery at scheduled Production Readiness Review (PRR)	Final delivery at scheduled Operational Readiness Review (ORR), or at Government's request, end of performance period
1.3.4.3	User Guide	Contractor-Determined Format	Updates due 20 calendar days prior to major software release	10 calendar days after receipt of Government comments
1.3.4.3	Software Source Code	Contractor-Determined in Native Format	N/A	5 days following ORR
1.3.5.2	IDD	Contractor-Determined Format	NLT 40 calendar days before implementation date of release containing modified or new interface	NLT 10 calendar days after receipt of Government comments
1.3.7	System Administration Manual	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments
1.3.8.1.1.2	High Impact Risk Advisory	Contractor-Determined Format	N/A	NLT 2 days following release of IAVA, IAVB, or TA

1.3.8.1.1.2	Other Risk Advisory	Contractor-Determined Format	N/A	NLT 7 days following release of IAVA, IAVB, or TA
1.3.8.1.1.2	Security Summary	Contractor-Determined Format	N/A	During weekly teleconferences; updates in MSR
1.3.8.3	IA&ISP and appendices	Government-Determined Format	Updates as required by the Government	NLT 10 days after receipt of Government comments
1.3.8.4	Contractor Security Training Completion Documentation	Government-Determined Format	N/A	Upon completion of training
1.3.8.5	Contractor IAWIP Certification Documentation	Vendor-Determined Format	N/A	Produced Upon request of the Government
1.3.9.1	Technical Assessment Documents	Government-Determined Format	Upon Government request	5 days after receipt of Government comments
1.3.10.1	Configuration Management Plan	Contractor-Determined Format	Update as required by the Government	NLT 10 calendar days after receipt of Government comments
1.3.10.2	Updated Configuration Item Listings	Contractor Determined Format	NLT 60 calendar days prior to end of performance period for this Task Order	NLT 10 calendar days after receipt of Government comments
1.3.10.3.1	Change Request Evaluation Report	Contractor Determined Format	N/A	NLT 15 days following receipt of change request
1.3.10.3.3	Status Accounting Reports	Contractor Determined Format	Monthly, with the MSR	NLT 5 calendar days after receipt of Government comments
1.3.11.62.1.1	Strategic Optimization/Scheduling Model Concept Document	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.1.2	Draft Strategic Model Design Specification	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.2.1	Regional/Tactical Optimization Scheduling Model Concept Document	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.2.2	Draft Regional / Tactical Model Design Specification	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments
1.3.11.62.3.2.1	Draft Simulation Optimization Design Specification	Contractor-Determined Format	NLT 12 August 2011	NLT 10 days following receipt of Government comments

1.3.11.62.4.1	VLO Survey and Architecture Design Report	Contractor-Determined Format	NLT 9 September 2011	NLT 10 business days following receipt of Government comments
1.3.11.63	Final Report	Contractor-Determined Format	NLT 9 September 2011	NLT 10 days following receipt of Government comments
1.3.11.63.1	Integrated DPNM Software Design Specification	Contractor-Determined Format	NLT 31 May 2011	NLT 10 days following receipt of Government comments
1.3.11.63.2.2	Prototype Node Data for DPNM	Contractor-Determined Format	NLT 15 August 2011	15 September 2011
1.3.11.63.3	Test Plan	Contractor-Determined Format	NLT 15 July 2011	NLT 5 days of receipt of Government comments
1.3.11.63.3	Test Report	Contractor-Determined Format	N/A	NLT 30 September 2011
4.4.1	Trip Report	Government-Determined Format	N/A	5 days after completion of travel

*Major or minor release: Major releases are releases that impact the security or hardware architectures of the system, or include the implementation of a new operating system or database (other criteria may apply.) This is the reason each release must undergo IA review for major/minor release determination. Numbering for major releases affects the whole number to the left of the leftmost decimal point (e.g., 12.0.0, 14.0.0). Minor releases consist of functionality enhancements and may include fixes of software problems. Numbering for minor releases affects the middle digit of the software release (e.g., 12.1.0, 14.2.0). Maintenance releases consist of fixes of software problems only; numbering of maintenance releases affects only the right-most digit of the software release number (e.g., 12.1.1, 14.3.4).

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Develop and Deliver IMS;	1.3.1.4,	Documents: No more than one (1) late delivery of draft and no more than 5 days late. Documents should contain no more than 1 critical or more than 4 substantive comments per document. No more than 2 sets of revisions/corrections with all revisions/corrections accomplished or incorporated by due date. (A second “set” may be necessary should Government comments be required on the second draft (or “final”) delivery in response to the first set of Government comments.) Software: Delivered on time, with no more than 1 planned version delivered no more than 5 days beyond ORR (according to contractor- and Government-agreed schedule), with no more than 2 Priority 1 problem
Deliver Software Release, Updated User Guide, Software Source Code, VDD;	1.3.4.3,	
Develop, Update & Provide Architecture Documents;	1.3.6.3,	
Develop, Update & Provide IA&ISP (and associated appendices)	1.3.8.3	

		reports, 4 or fewer Priority 2 problem reports, 6 or fewer Priority 3 or below problem reports. All Priority 1 and 2 and 50% or more of the Priority 3 problem reports submitted during UAT resolved and operational software delivered on time, according to contractor- and Government-agreed schedule, with no more than 1 planned version delivered no more than 2 days beyond PRR, according to contractor- and Government-agreed schedule.
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2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). GFE listed in the table below will be used to support the AMP tasks to be performed at the contractor's site. USTRANSCOM will maintain all GFE. The USTRANSCOM objective is to accomplish required maintenance within 48 hours of receipt at USTRANSCOM and to return the GFE to the contractor via overnight delivery. The Government will provide the equipment and leased line to support the Secure Internet Protocol Router Network (SIPRNET) connection in support of the secure network requirement described in Paragraph 5.17 of this PWS. The Government will provide the latest version of the following documents to the contractor:

- DOD 5200.1-R, Information Security Program
- DODI 8510.01, DOD Certification and Accreditation Process, November 28, 2007
- DOD Directive 8500.01E, Information Assurance
- DOD Instruction 8500.2, Information Assurance Implementation
- DIACAP Artifact Templates
- System Classification Guide
- System Security Policy
- Risk Management Review Report
- MIL-STD 3022, Documentation of Verification, Validation, and Accreditation (VV&A) For Models And Simulations, 28 Jan 2008
- USTRANSCOM Pamphlet 33-2, Communication Guide
- DOD Instruction 5000.61, DOD Modeling and Simulation (M&S) Verification, Validation, and Accreditation (VV&A)
- Government CMP
- Government Contingency Management Plan (discretionary)
- USTRANSCOM PMO Requirements Management Plan

GOVERNMENT FURNISHED EQUIPMENT (GFE) LISTING

Serial Number	Part Number	Model Number	Model Description
23579681	61000034D2	CPU	Gateway P4 1400
031C16C7	61000033J9	SUN	18.2 GB Hard Drive
045H2C5A	610000341P	SUN	ULTRA 60
219V00AE	610000365L	SERVER	SUN FIRE 880

450G4023	61000035ZH	TAPE DRIVE	SUN External
602F0284	610000082X	SUN	ULTRA 1
628G3304	6100003250	SUN	Tape Drive
7WF16B1		SERVER	DELL 6850 POWEREDGE SERVER
9429FR3687	61000033YI	SUN	Monitor
9502FR4029	61000008II	SUN	Monitor
DZKWN41		CPU	Dell Precision 650 (Strongbad)
TW22530559		MONITOR	HP 17" Flat Panel
27645944	610000367D	CPU	Gateway E6000 P4 2400
201003317	61000035T4	MONITOR	NEC Flat Panel 18"
FBKYRF1		WORKSTATION	Dell Precision 690 (Fabfour)
MUL8006A0045134	61000037MA	MONITOR	Gateway (Wolverine)
85SVT91		WORKSTATION	Dell Precision 670 (Wolverine)
24682585	610000367D	PC	Gateway P4 1400
MCOC95364663477C1C5L		MONITOR	Dell 20" LCD (Fabfour)
962R6B1		Disk Array	Dell/EMC ax150 RAID Array
MUL8006A0045628?	61000037ML	MONITOR	Gateway (Strongbad)
C8KQ6B1	26639930989	SERVER	DELL 6850 POWEREDGE SERVER

3.2 Facilities. No facilities specified.

4.0 GENERAL INFORMATION

4.1 – 4.2 All provisions of the Contract Level PWS apply.

4.3 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB. However, to accommodate the contractor's on-site support personnel, the Government will provide controlled working space, phone, computer, fax, and connections to the NIPRNET or SIPRNET, as required, at no cost to the contractor for one FTE.

4.4 Travel. Performance under this task order shall require contractor travel within and outside the Continental United States (OCONUS). The table below lists anticipated travel requirements. The Government will reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). All contractor travel shall be coordinated with and validated by the PM prior to incurring any travel expenses. Travel requests shall be submitted in writing at least five (5) business days in advance from the travel commencement date shall consist of:

- Title, Purpose/Objective, Expected Outcome
- Date, Time (window), and Location
- Proposed Itinerary
- Proposed Meeting/Activities Agenda
- Number of Contractor Participants
- Desired Government Participants
- Requested Government Support
- Estimated Costs

The contractor shall identify personnel who will be traveling in sufficient time to obtain the lowest possible rates for airfare, rental car and lodging. Contractor invoices (along with associated receipts) shall support all travel reimbursement requests. The Government will not reimburse local travel and related expenses to the contractor for

daily travel to or from the place of performance stipulated in each individual task order. Contractors shall not use General Services Administration city pair contracts.

ANTICIPATED CONTRACTOR TRAVEL

For estimating purposes, the Government anticipates the following trips (estimates include travel days) during the period of performance:

Origin	Destination	Duration (days)	Trip Description	No of People	Trips
Contractor location, if applicable	Scott, AFB	1	Kickoff	3	1
Contractor location, if applicable	Wash DC	2	User Group Meeting (UGM)	4	1
St. Louis, MO	Wash DC	2	UGM	1	1
Contractor location, if applicable	Wash DC	2	AMI Support	4	1
Contractor location, if applicable	Scott, AFB	1	IPR	3	2
St. Louis, MO	Contractor location, if applicable	2	Design Meeting	2	2
Wash DC	Contractor location, if applicable	2	Design Meeting	1	1

4.4.1 Trip Report. The contractor may be required to prepare and submit a trip report, including meeting minutes if applicable, following the conclusion of travel to the PM. Additionally, if required to produce a trip report by the individual task order, the contractor shall attach a copy of the report and minutes to the monthly status report. Trip report format shall comply with USTRANSCOM Pamphlet 33-2, Communication Guide.

Deliverable: Trip Report

4.5 – 4.6 All provisions of the Contract Level PWS apply.

4.7 Period of Performance. The period of performance for this task order is 1 Oct 2010 to 30 Sep 2011.

4.8 – 5.19 All provisions of the Contract Level PWS apply.

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. P00005		3. EFFECTIVE DATE 1 Mar '12		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE USTRANSCOM-AQ - HTC711 506 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0003			
				X 10B. DATED (SEE ITEM 13) 08-Oct-2010			
CODE 3U6L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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 CONTRACT/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
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.							
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).							
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-3 Changes- Time and Materials or Labor-hour (Sep 2000)							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: totikd/12714 The purpose of this no cost bilateral modification is to extend the period of performance end date from 8 June 2012 to 30 September 2012. The POC for this action is Jennifer Detmer who can be reached at Jennifer.Detmer@ustranscom.mil or 618-220-7046.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Neff Sr. Manager, Contracts				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LISA A. GROSS, Contracting Officer			
15B. CONTRACTOR/OFFEROR Michael C. Neff (Signature of person authorized to sign)				15C. DATE SIGNED 29 Feb 2012		16B. UNITED STATES OF AMERICA BY Lisa A. Gross (Signature of Contracting Officer)	
						16C. DATE SIGNED 1 Mar 2012	

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION B - SUPPLIES OR SERVICES AND PRICES

SUBCLIN 1007AA

The CLIN extended description has changed from Contractor shall provide services to add DPNM enhancements IAW the Government's Performance Work Statement (PWS) Task 1.3.11.63 - 1.3.11.63.3.Period of Performance 9 June 2011 - 8 June 2012. to Contractor shall provide services to add DPNM enhancements IAW the Government's Performance Work Statement (PWS) Task 1.3.11.63 - 1.3.11.63.3.Period of Performance 9 June 2011 - 30 September 2012..

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for SUBCLIN 1007AA has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-JUN-2011 TO 08-JUN-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-JUN-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

(End of Summary of Changes)

ORDER FOR SUPPLIES OR SERVICES										PAGE 1 OF 11	
1 CONTRACT/PURCH ORDER/ AGREEMENT NO HTC711-10-D-S002			2 DELIVERY ORDER/ CALL NO. 0004		3 DATE OF ORDER/ CALL (YYYYMMDD) 2011 May 12		4 REQ / PURCH. REQUEST NO F3ST951069A001		5 PRIORITY		
6 ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357				7 ADMINISTERED BY (if other than 6) SEE ITEM 6		8 DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)					
9. CONTRACTOR CODE 3U6L5 RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				FACILITY 3U6L5		10 DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED			
12 DISCOUNT TERMS Net 30 Days						13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15					
14. SHIP TO CODE F3ST95 USMC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST, BLDG 4038 SCOTT AFB IL 62225-5357				15. PAYMENT WILL BE MADE BY CODE F87700 DFAS-LIMESTONE DEAMS - F87700 ACCTG DISB STA NR 387700 DFAS DEAMS 27 ARKANSAS RD LIMESTONE ME 04751-6216				MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.			
16. TYPE OF ORDER		DELIVERY/ CALL		<input checked="" type="checkbox"/>		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract					
		PURCHASE				Reference your quote dated Furnish the following on terms specified herein REF					
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME											
NAME OF CONTRACTOR				SIGNATURE				TYPED NAME AND TITLE		DATE SIGNED (YYYYMMDD)	
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:											
17 ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE											
See Schedule											
18 ITEM NO.		19 SCHEDULE OF SUPPLIES/ SERVICES				20 QUANTITY ORDERED/ ACCEPTED*		21. UNIT		22. UNIT PRICE	
		SEE SCHEDULE								23 AMOUNT	
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle						24. UNITED STATES OF AMERICA TEL: 618-220-7061 EMAIL: Lisa.Gross@ustrancom.mil BY: LISA A. GROSS		 CONTRACTING / ORDERING OFFICER		25 TOTAL \$499,394.50	
27a. QUANTITY IN COLUMN 20 HAS BEEN						<input type="checkbox"/> INSPECTED		<input type="checkbox"/> RECEIVED		<input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED	
b SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE						c. DATE (YYYYMMDD)		d PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE			
e MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE						28 SHIP NO.		29. DO VOUCHER NO.		30. INITIALS	
f. TELEPHONE NUMBER						g. E-MAIL ADDRESS		<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY	
36. I certify this account is correct and proper for payment.						31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		33. AMOUNT VERIFIED CORRECT FOR		34 CHECK NUMBER	
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER						35 BILL OF LADING NO.			
37. RECEIVED AT		38 RECEIVED BY		39 DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41 S/R ACCOUNT NO		42. S/R VOUCHER NO	

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
1001	Labor - FY11 TWCF CAP LH Labor, in accordance with Task Order Level PWS paragraphs 1.3.11.21.2, 1.3.11.64.5-7, 1.3.11.64.13-14, 1.3.11.65.1 dated 3 March 2011, for the period of 12 May 2011 - 30 Sep 2011 FOB: Destination PURCHASE REQUEST NUMBER: F3ST951069A001 SIGNAL CODE: A	330,509.97	Lot	\$1.00	\$330,509.97 NTE
TOT ESTIMATED PRICE					\$330,509.97 NTE
CEILING PRICE					\$0.00
ACRN AA CIN: 00000000000000037847					\$330,509.97

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
1002	Labor - FY10 TWCF CAP LH Labor, in accordance with Task Order Level PWS paragraphs 1.3.11.64.1-4, 1.3.11.64.8-12, 1.3.11.64.2-3 dated 3 March 2011, for the period of 12 May 2011 - 30 Sep 2011 FOB: Destination PURCHASE REQUEST NUMBER: F3ST951069A001 SIGNAL CODE: A	168,884.53	Lot	\$1.00	\$168,884.53 NTE
TOT ESTIMATED PRICE					\$168,884.53 NTE
CEILING PRICE					\$0.00
ACRN AB CIN: 00000000000000037848					\$168,884.53

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
1001	Destination	Government	Destination	Government
1002	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
1001	POP 12-MAY-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
1002	POP 12-MAY-2011 TO 30-SEP-2011	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.FD50 6F1 70AB 24901 G04N70 70110 00000F 387700 F87700
AMOUNT: \$330,509.97
CIN 00000000000000037847: \$330,509.97

AB: 97X4930.FD50 6F0 70AB 24901 G04N70 70110 00000F 387700 F87700 ESP:0P
AMOUNT: \$168,884.53
CIN 00000000000000037848: \$168,884.53

Section J - List of Documents, Exhibits and Other Attachments

PERFORMANCE WORK STATEMENT

**PERFORMANCE WORK STATEMENT
FOR
TASK ORDER (TO) 0004
ANALYSIS OF MOBILITY PLATFORM (AMP)**

3 March 2011

1.0 DESCRIPTION OF SERVICES

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses.

1.2 Scope. This Performance Work Statement (PWS) contains requirements in support of the AMP Federation of models. All provisions of the basic contract apply. The paragraph numbers of the enhancements described below follow the numbering scheme of the Contract Level PWS.

1.3 Specific Tasks. The specific task area in which the described support will be performed is Enhancements.

1.3.11.21.2 Joint Mobility Closure Estimator (JMCE). (Optional Task) The contractor shall develop the capability for JMCE to copy/fill distance data in the distance tables; represent and manage passenger only movements; import and export Regions File, land attributes/routes, and ships; consistently handle the update of various Planning Factor forms; properly account for cargo- or passenger-only payloads after closure; display closure dates in a hierarchical, collapsible list; incorporate a theoretical utilization rate (UTE); allow added ships to have a null region field; provide a switchable view between cargo and passenger requirements; and provide proper, dynamic scaling of the Summary Detail chart.

Deliverables: Version Description Document (VDD), Software Test Plan, Software Test Cases, Software Test Reports, Software Release, Source Code, and updates to User Guide

1.3.11.64 AMP-PAT Model Enhancements. The Contractor shall provide software development, functionality upgrades, testing and enhancements for AMP-PAT.

Deliverables: Version Description Document (VDD), Software Test Plan, Software Test Cases, Software Test Reports, Software Release, Source Code, updates to Software Requirements Specification, and updates to User Guide to include new data parameters and functionality

1.3.11.64.1 Throughput and Bottleneck Analysis. The contractor shall develop, display, and report statistics for calculating port throughput and enhanced queue statistics to support bottleneck analysis in SST, consisting of statistics for queue lengths and average waiting times for cranes, transportation vehicles, or loading/unloading.

1.3.11.64.2 Airport Simulation Tool (AST) Scenario Summary. The contractor shall develop an AST scenario data and summary report that includes user inputs to the model, similar to the SST Scenario Summary. Data shall consist of the AST scenario data, and the summary reports shall include user input data/parameters, aircraft mission processing times, and results from the simulation in a report format.

1.3.11.64.3 Seaport Throughput Tool (STT) Data Report. The contractor shall develop a report showing the data on STT user display screens, consisting of the STT Summary Report, Berth Suitability, and the Capability tabbed data for Berths, Staging, Rail Facility, Motor Facility, and Gate & Highways. Also, the STT / Seaport Rapid Analysis Tool (SRAT) Planning Factors shall be in the report, to include Port Factors, Ship/Vehicle Loading, and Ship/Cargo Mix.

1.3.11.64.4 Improvements to SST Scenario Input Summary Report. The contractor shall modify the SST Scenario Input Summary Report with the capability to activate/inactivate displayed data based on the availability of the infrastructure/facility to the simulation, highlight non-default values, turn descriptions on/off, and select/deselect desired data.

1.3.11.64.5 POE/POD Mode Switching Independent Values. The contractor shall modify the SST so that the mode switching, when triggered by the ‘frustrated cargo time’, correctly models the different processes for a port of embarkation (POE) and port of debarkation (POD).

1.3.11.64.6 Additional Manifest Data for Statistics Browser. The contractor shall modify the Manifest tab of the SST Statistics Browser to add data for manifested cargo, consisting of the times for Cleared Gate (for trains this is after processing into the interchange yard for ports of entry), Arrived at Staging (i.e., still on transport), Parked in Staging, Processed, and Loaded (i.e., stowed and lashed). This data shall be displayed within the Manifest tab and shall be usable for reports.

1.3.11.64.7 Cargo Arrival Sequencing. The contractor shall develop an alternative capability to sequence outbound cargo into a port, so that the analyst can move cargo to (and/or from) the port, so that various throughput capacities of the port can be tested.

1.3.11.64.8 Flatbed and Convoy Event History Data. The contractor shall modify the SST Statistics Browser to provide detailed data reporting for Flatbed and Convoy events, similar to the data provided for Rail events, consisting of the event times for flatbed/convoy arrival times for processing, relocation to/from various port facilities, ready for loading/unloading (as appropriate), vehicle inspection, moving to convoy assembly area or moving to gate (as appropriate), and departure.

1.3.11.64.9 Transport Statistics. The contractor shall develop a Status Screen in SST that updates automatically during the simulation run for monitoring, with an on-off display option, and a similar report shall be made available to the analyst post-simulation, that provides the same detailed data. The displayed/reported data shall consist of data on flatbed trucks; flatcars; blocked trains, railcars, convoys, and vehicles; the status of vehicles, containers, and helicopters (arrived/ready/loaded/total); berthed ships; and ship statistics.

1.3.11.64.10 Ship Summary Report. The contractor shall develop a seaport report that provides ship voyage summary data, consisting of data for ship name/number/type, berth, port arrival, queued and docking time, berth arrival/departure, and percent full.

1.3.11.64.11 Hourly Summary, Convoy, and Train Reports. The contractor shall develop additional reports in SST Statistics Browser to provide (a) Hourly Summary Data consisting of data for blocked convoys, vehicles, trains, and railcars; vehicles queued at gate; vehicles staged, ready, loaded, and total; and containers staged, ready, loaded, and total, and (b) Convoy and Train Reports consisting of data for convoy/train number, number of vehicles/flatcars, time arrived and unblocked, gate/interchange yard, arrival times (first and last vehicle/flatcar times), and the convoy staging area (for vehicles).

1.3.11.64.12 Seaport Enabler and PSA Personnel. The contractor shall develop additional functionality to model the capability of seaport enablers to support port/terminal processes in a primary or secondary capability, and to add parenthetical information to the enabler personnel titles in all displays, charts, and reports (to indicate the enabler source organization and/or specific capabilities). The contractor shall develop additional functionality consisting of vehicle fueling/defueling.

1.3.11.64.13 Load Trucks Using MHE. The contractor shall develop the capability for Rolling Stock to be loaded/unloaded onto trucks using MHE, in addition to the existing capability to load a truck using a self-contained Truck Ramp or a terminal Truck Ramp.

1.3.11.64.14 ATT/AST Enhancements. (Optional Task) The contractor shall develop functional enhancements to the ATT/AST models, including: build fidelity in the ATT for personnel/equipment to enable the tool to identify shortfalls and other needed UTC plus-ups; develop the ability for ATT to switch processes between contingency and

channel operations via a checkbox; add specific weather operations parameters to the ATT/AST models that may reduce the port's efficiency due to inclement weather conditions; and develop the ATT/AST models' capability to differentiate between military and civilian enablers.

1.3.11.65 AMP Model Enhancements. The contractor shall develop the enhancements stipulated below.

Deliverable: Version Description Document (VDD), Software Test Plan, Software Test Cases, Software Test Reports, Software Release, Source Code, updates to Software Requirements Specification, and updates to User Guide Software Release

1.3.11.65.1 Distance Tool for AMP Model. The contractor shall develop a distance tool that will calculate and display distances between two user-selectable locations. This distance tool shall be available from any of the tools in the AMP suite.

1.3.11.65.2 Federated AST Requires AMP Aircraft Types. The contractor shall develop and enhance the AMP GUI display to enable users that are federating AMP and AMP-PAT (AST) to fully map aircraft types between AMP and AMP-PAT. This shall include a user input method for resolution of mismatched aircraft types.

1.3.11.65.3 Federated SST Requires AMP Locations and Ship Types. The contractor shall develop and enhance the AMP GUI display to enable the AMP Federation users to fully exchange ship and seaport information between AMP and AMP-PAT. This shall include pre-run checks to inform users of mismatched ships and berths and provide user input method for resolution. The contractor shall develop a GUI allowing users to map between AMP and AMP-PAT ships.

1.4 Deliverables. The contractor shall provide all deliverables electronically to the PM; the deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software. Large files shall be provided on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD. The contractor shall provide a soft copy of each deliverable to each of the following organizational e-mail accounts: ustcj6-p-cm@ustranscom.mil and ustcj6-pc-ms@ustranscom.mil.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. "Format", as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date
1.3.11 sub-paragraphs	Software Requirement Specification (SRS)	Contractor-Determined Format	NLT 30 calendar days prior to scheduled initial delivery of software	NLT 10 business days after receipt of Government comments
1.3.11 sub-paragraphs	Software Test Plan	Contractor - Determined Format	30 calendar days before scheduled Test Readiness Review (TRR)	NLT 10 calendar days after receipt of Government comments
1.3.11 sub-paragraphs	Software Test Cases	Contractor - Determined Format	30 calendar days before TRR	NLT 10 calendar days after receipt of Government comments
1.3.11 sub-paragraphs	Software Test Reports	Contractor - Determined Format	N/A	Not later than seven calendar days following completion of system test
1.3.11 sub-paragraphs	Software VDD	Contractor-Determined Format	NLT 60 calendar days prior to scheduled TRR	NLT 10 calendar days after receipt of

				Government comments
1.3.11 sub-paragraphs	Software Release	Contractor-Determined Format	Initial delivery at scheduled Operational Readiness Review (ORR)	Final delivery at scheduled Production Readiness Review (PRR), or at Government's request, end of performance period
1.3.11 sub-paragraphs	User Guide	Contractor-Determined Format	Updates due 20 calendar days prior to ORR	10 calendar days after receipt of Government comments
1.3.11 sub-paragraphs	Software Source Code	Contractor-Determined in Native Format	N/A	By Scheduled PRR

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Documents 100% complete, all delivered on time, all issues addressed. One set of government comments required, with no critical and two or fewer substantive comments per document. (A "set" is defined as one instantiation of Government comments on a draft deliverable.) Software: delivered on time at scheduled ORR, with no Priority 1 problem reports, two or fewer Priority 2 problem reports, four or fewer Priority 3 or below problem reports. All Priority 2 problem reports resolved and production software delivered on time at PRR, according to contractor- and Government-agreed schedule.	1.3.11 sub-paragraphs	Documents: No more than one (1) late delivery of draft and no more than five (5) days late. Documents should contain no more than one critical or more than four substantive comments per document. No more than two (2) sets of revisions/corrections with all revisions/corrections accomplished or incorporated by due date. (A second "set" may be necessary should Government comments be required on the second draft (or "final") delivery in response to the first set of Government comments.) Software: delivered by scheduled ORR date (according to contractor- and Government-agreed schedule), with no more than two Priority 1 problem reports, four or fewer Priority 2 problem reports, six or fewer Priority 3 or below problem reports. All Priority 1 and 2 and 50% or more of the Priority 3 problem reports submitted during UAT resolved and operational software delivered by scheduled PRR, according to contractor- and Government-agreed schedule.

2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). All provisions of the Contract Level PWS apply.

3.2 Facilities. No facilities specified.

4.0 GENERAL INFORMATION.

4.1 – 4.3 All provisions of the Contract Level PWS apply.

4.4 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB.

4.5 Travel. No travel is anticipated in support of this Task Order.

4.6 – 4.7 All provisions of the Contract Level PWS apply.

4.8 Period of Performance. The period of performance shall be from date of award through 30 September 2011.

WAWF

INVOICING PROCEDURES: Submit electronic invoices monthly through Wide Area Work Flow (WAWF-RA).

**WIDE AREA WORKFLOW – RECEIPT AND ACCEPTANCE (WAWF-RA)
ELECTRONIC RECEIVING REPORT AND INVOICING INSTRUCTIONS**

IN ACCORDANCE WITH DFARS 232.7003, USE OF ELECTRONIC PAYMENT REQUESTS IS MANDATORY. USE OF WAWF WILL SPEED UP YOUR PAYMENT PROCESSING TIME AND ALLOW YOU TO MONITOR YOUR PAYMENT STATUS ONLINE. THERE ARE NO CHARGES OR FEES TO USE WAWF.

Requests for payments must be submitted electronically via the Internet through the Wide Area WorkFlow – Receipt and Acceptance (WAWF-RA) system at <https://wawf.eb.mil>.

Questions concerning payment should be directed to the Defense Finance Accounting Services (DFAS) Limestone at (800) 756-4571 or faxed to (866) 392-7971 or e-mailed to cco-af-vpis@dfas.mil. Please have your order number and invoice number ready when contacting DFAS about payment status. You can also access payment information using the DFAS myInvoice web site at <https://myinvoice.csd.disa.mil/index.html>

THE FOLLOWING CODES WILL BE REQUIRED TO ROUTE YOUR RECEIVING REPORTS, INVOICES AND ADDITIONAL E-MAILS CORRECTLY THROUGH WAWF.

CONTRACT NUMBER:

TASK ORDER NUMBER:

TYPE OF DOCUMENT:

CAGE CODE:

ISSUE BY DODAAC:

ADMIN DODAAC:

DCAA OFFICE:

SERVICE ACCEPTOR / SHIP TO:

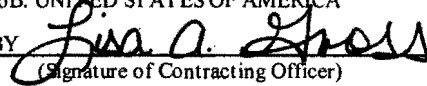
PAY OFFICE DODAAC:

SEND MORE E-MAIL NOTIFICATIONS:

CONTRACT ADMINISTRATOR:

ADDITIONAL NOTIFICATION:

ADDITIONAL NOTIFICATION:

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE K		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. 01		3. EFFECTIVE DATE 22-Aug-2011		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (If applicable)	
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		CODE HTC711		7. ADMINISTERED BY (If other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0004			
				X 10B. DATED (SEE ITEM 13) 12-May-2011			
CODE 3U6L5		FACILITY CODE 3U6L5					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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) See Schedule							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
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.							
X 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).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tctikktj111843 The purpose of this unilateral modification is to change the long line of accounting. CLIN 1002 is being deleted and Clin 1003 is established for payment purposes. All other terms and conditions remain the same. Point of Contact for this action is Tristan Tikkanen. He can be reached at (618) 220-7147 or by e-mail at Tristan.Tikkanen@ustrancom.mil .							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LISA A. GROSS / CONTRACTING OFFICER TEL: 618-220-7061 EMAIL: Lisa.Gross@ustrancom.mil			
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)		16C. DATE SIGNED 22-Aug-2011	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 1002

The pricing detail quantity has decreased by 125,317.83 from 168,884.53 to 43,566.70.

The total cost of this line item has decreased by \$125,317.83 from \$168,884.53 to \$43,566.70.

CLIN 1003 is added as follows:

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
1003	Option 1- Labor LH Labor, in accordance with each individual Task Order Level Performance Work Statement (PWS), for the period of 1 Oct 10 - 30 Sep 11. FOB: Destination PURCHASE REQUEST NUMBER: F3ST951195A001 SIGNAL CODE: A	1	Lot	\$125,317.83	\$125,317.83
TOT ESTIMATED PRICE					\$125,317.83
CEILING PRICE					\$0.00
ACRN AC					\$125,317.83
CIN: 00000000000000051304					

SECTION E - INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for CLIN 1003:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for CLIN 1002 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
---------------	----------	-----------------	-----

POP 12-MAY-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
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To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 12-MAY-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item has been added to CLIN 1003:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2010 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

CLIN 1002:

AB: 97X4930.FD50 6F0 70AB 24901 G04N70 70110 00000F 387700 F87700 ESP:0P (CIN 00000000000000037848) was decreased by \$125,317.83 from \$168,884.53 to \$43,566.70

CLIN 1003:

Funding on CLIN 1003 is initiated as follows:

ACRN: AC

CIN: 00000000000000051304

Acctng Data: 97X4930.FD50 6F0 70AB 24901 G642A4 70110 00000F 387700 F87700 ESP:0P

Increase: \$125,317.83

Total: \$125,317.83

(End of Summary of Changes)

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF 9

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. HTC711-10-D-S002		2. DELIVERY ORDER/ CALL NO. 0005		3. DATE OF ORDER/CALL (YYYYMMDD) 2011 May 18		4. REQ./ PURCH. REQUEST NO. WB1GYE11019100		5. PRIORITY	
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		CODE HTC711		7. ADMINISTERED BY (if other than 6) CODE				8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)	
9. CONTRACTOR RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119		CODE 3U6L5		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED	
						12. DISCOUNT TERMS Net 30 Days		13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15	
14. SHIP TO USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357		CODE F3ST95		15. PAYMENT WILL BE MADE BY DFAS-LIMESTONE TFMS-M - F89900 ACCTG DISB STA NR 389900 DFAS LI TFMS M 27 ARKANSAS RD STE 600 LIMESTONE ME 04751-6217		CODE F89900		MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.	
16. TYPE OF ORDER	DELIVERY/ CALL	<input checked="" type="checkbox"/>	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.						
	PURCHASE		Reference your quote dated Furnish the following on terms specified herein. REF:						
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.									
NAME OF CONTRACTOR			SIGNATURE			TYPED NAME AND TITLE			DATE SIGNED (YYYYMMDD)
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:									
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule									
18. ITEM NO.	19. SCHEDULE OF SUPPLIES/ SERVICES			20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT		
	SEE SCHEDULE								
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.				24. UNITED STATES OF AMERICA TEL: 618-220-7061 EMAIL: Lisa.Gross@ustrancom.mil BY: LISA A. GROSS		25. TOTAL \$460,159.36		26. DIFFERENCES	
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED									
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE				c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE			
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE				28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS	
f. TELEPHONE NUMBER				g. E-MAIL ADDRESS		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR	
36. I certify this account is correct and proper for payment.				31. PAYMENT				34. CHECK NUMBER	
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER						35. BILL OF LADING NO.	
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.	
								42. S/R VOUCHER NO.	

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
1001	Labor for Analysis of Mobility Platform LH Labor, in accordance with Performance Work Statement (PWS) paragraph 1.3, Specific Tasks, and all subparagraphs. Period of Performance is 18 May 2011 through 30 Sep 2011. FOB: Destination PURCHASE REQUEST NUMBER: W81GYE11019100 SIGNAL CODE: A	460,159.36	Lot	\$1.00	\$460,159.36
				TOT ESTIMATED PRICE	\$460,159.36
				CEILING PRICE	\$0.00
	ACRN AA CIN: W81GYE110191000000AA				\$460,159.36

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
1001	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
1001	POP 18-MAY-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97 X 4930 FD30 1 E3 35 9900 TTTM0000000 B200 2515 MIPR1EDAT99000 389900

AMOUNT: \$460,159.36

CIN W81GYE110191000000AA: \$460,159.36

Section J - List of Documents, Exhibits and Other Attachments

ADMINISTRATIVE MATTERS

ADMINISTRATIVE MATTERS

A. ACQUISITION POINT OF CONTACT:

Contracting Officer

Lisa A. Gross

USTRANSCOM/TCAQ-D

PHONE: 618-220-7061

E-MAIL: Lisa.Gross@ustranscom.mil

B. ADMINISTRATIVE POINT OF CONTACT:

After award has been made, the USTRANSCOM Directorate of Acquisition will administer this order. Any requests for information or clarification after award of order shall be referred to the buyer:

James Hill

Contract Specialist

USTRANSCOM/TCAQ-D

Phone: 618-220-7073

E-Mail: James.Hill@ustranscom.mil

C. Invoicing and Receiving Report Procedures: To expedite payment of this order, you are required to submit your invoice through DFAS Limestone (see block 18a) and courtesy copy Mr. Jesse Adkins at Jesse.R.Adkins@us.army.mil and Jamie Hill at James.Hill@ustranscom.mil. Invoices are to be faxed to (317) 275-0178 REF: TFMS VENDOR PAY or emailed to DFAS-LI-TFMS-AP@DFAS.MIL. The phone number/email for DFAS Customer Service for all issues concerning payment is 1-800-756-4571 or cco-af-vpis@dfas.mil.

D. Unilateral Modification: Notwithstanding FAR 52.212-4(c), the contractor specifically agrees that unilateral modifications for the purpose of making administrative changes (such as changes in accounting codes, payment offices, and other administrative changes which do not affect the terms and conditions of this order) may be issued without prior notice to the contractor. The contractor shall receive copies of unilateral modifications for record keeping purposes.

PWS

**PERFORMANCE WORK STATEMENT
FOR
TASK ORDER (TO) 0005**

ANALYSIS OF MOBILITY PLATFORM (AMP)

15 February 2011

1.0 DESCRIPTION OF SERVICES

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses.

1.2 Scope. This Performance Work Statement (PWS) contains requirements in support of the AMP Federation of models. All provisions of the basic contract apply.

1.3 Specific Tasks. The specific task areas in which the described support will be performed are Studies Support, Maintenance, System Administration, and Configuration Management.

1.3.2.1 Task Area 2 Subtask 1 – AMP Analysis. The contractor shall analyze AMP software to determine the applicability of and describe in detail options for migration of AMP software to a Service Oriented Architecture (SOA) environment that would be consistent with USTRANSCOM's Corporate Services Vision (CSV), given time constraints and current status of the CSV at the time of the analysis. The evolution of AMP to the AMP Mode Integration (AMI) shall be a consideration in this analysis. Also, the analysis shall address the potential to host various AMP functionalities (e.g., tools, federated components, or other appropriately cohesive elements) on iDistribute. The analysis shall contain a framework that will enable the Government to determine the degree of compliance of the various migration options presented in the analysis with the CSV.

While the contractor is free to address any issues it deems relevant to the objectives of this analysis, the analysis shall address the following: (1) How will any proposed SOA-based implementation impact performance of the tool? (2) Is there a feasible SOA-based approach/approaches that strike a good balance between performance and services (i.e., a balance that makes the solution usable for most if not all modeling analyses)? (3) What would be the estimated cost to implement the various options? (4) Will the solution(s) operate on a standalone (thick client) environment as well as server-based (thin-client, browser-based)? (5) Are there any programming language considerations?

The analysis shall present the various tradeoffs of the analyzed options (to include cost, performance, platform dependence, standalone vs. browser based operation) so that the government can make an informed decision regarding the benefits and costs of migrating AMP to a SOA environment.

The contractor shall document the analysis, together with its findings and recommendations, in a white paper.

Deliverable: White Paper

1.3.6.1 Task Area 6 Subtask 1 – AMP-PAT Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP-PAT.

Deliverables: Software Release, Updated User Guide, Updated Help Text.

1.3.6.2 Task Area 6 Subtask 2 – AMP-PAT Documentation. The contractor shall upgrade or generate comprehensive user documentation of the following AMP-PAT tools: ATT, ARAT, AST, STT, SRAT, and SST. This documentation shall include port process diagrams, model calculations/formulas, planning factors, and the differences between seaport POE and POD processes and formulas. The contractor shall provide this documentation in printable, searchable help menu format.

1.3.6.3 Task Area 6 Subtask 3 – AMP-PAT Airport Simulation Tool (AST) and Airport Throughput Tool (ATT) data updates. The contractor shall maintain model data currency by updating the UTC list with user-provided current UTC definitions. In addition, the contractor shall update aircraft planning cargo load default factors, team size composition details (for load teams, safety teams, cargo yard teams), MHE planning default factors, and aerial port and aircraft maintenance personnel and equipment/vehicles. The contractor also shall evaluate aircraft maintenance manpower standards from the Logistics Composite Model (LCOM) and the aerial port manpower standards for applicability to AMP-PAT modeling.

1.3.7.1 Task Area 7 Subtask 1 – AMP Federation Model User Training. The contractor shall provide four periods of AMP classroom training to support the rapidly increasing user base. Each class shall be planned for four days, 7 hours of training per day.

1.3.10.1 Task Area 10 Subtask 1 – Evaluating Requested Changes. The contractor shall provide requirements analysis to support the new user-required changes to airport and seaport modeling & simulation capabilities in

AMP-PAT as a result of the rapid growth of users. The contractor shall plan for an additional 20 complex requirements to be evaluated and estimated.

1.4 Deliverables. The contractor shall provide all deliverables electronically to the PM; the deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software. Large files shall be provided on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD. The contractor shall provide a soft copy of each deliverable to each of the following organizational e-mail accounts: ustcj6-p-cm@ustranscom.mil and ustcj6-pc-ms@ustranscom.mil.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. "Format", as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date
1.3.2.1	White Paper	Contractor-Determined	1 September 2011	15 calendar days from receipt of Government comments
1.3.6.1.2	Software Release	Contractor-Determined	1 September 2011 (ORR)	30 September 2011 (PRR)
1.3.6.1.2	Updated User Guide	Contractor-Determined	1 September 2011	15 calendar days from receipt of Government comments
1.3.6.1.2	Updated Help Text	Contractor-Determined	1 September 2011	15 calendar days from receipt of Government comments

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Document 100% complete, delivered on time, all issues addressed. One set of government comments required, with no critical and two or fewer substantive comments per document. (A "set" is defined as one instantiation of Government comments on a draft deliverable.) Software: delivered on time at scheduled ORR, with no Priority 1 problem reports, two or fewer Priority 2 problem reports, four or fewer Priority 3 or below problem reports. All Priority 2 problem	1.3.2.1, 1.3.6.1.2	Document: Late delivery of draft and no more than two (2) days late. Software: delivered on time, with no more than one planned version delivered no more than five business days beyond ORR (according to contractor- and Government-agreed schedule), with no more than two Priority 1 problem reports, four or fewer Priority 2 problem reports, six or fewer Priority 3 or below problem reports. All Priority 1 and 2 and 50% or more of the Priority 3 problem reports submitted during UAT resolved and operational software delivered on time, according to contractor- and Government-agreed schedule, with no more than 1 planned version delivered no more than two business days beyond PRR, according to contractor- and Government-agreed schedule.

reports resolved and production software delivered on time at PRR, according to contractor- and Government-agreed schedule.		
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2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). All provisions of the Contract Level PWS apply.

3.2 Facilities. No facilities specified.

4.0 GENERAL INFORMATION.

4.1 – 4.3 All provisions of the Contract Level PWS apply.

4.4 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB.

4.5 Travel. No travel is anticipated in support of this Task Order.

4.6 – 4.7 All provisions of the Contract Level PWS apply.

4.8 Period of Performance. The period of performance shall be from 18 May 2011 through 30 September 2011.

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF 9

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. HTC711-10-D-S002		2. DELIVERY ORDER/ CALL NO. 0005		3. DATE OF ORDER/CALL (YYYYMMDD) 2011 May 18		4. REQ./ PURCH. REQUEST NO. WB1GYE11019100		5. PRIORITY	
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		CODE HTC711		7. ADMINISTERED BY (if other than 6) CODE				8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)	
9. CONTRACTOR RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119		CODE 3U6L5		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED	
						12. DISCOUNT TERMS Net 30 Days		13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15	
14. SHIP TO USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357		CODE F3ST95		15. PAYMENT WILL BE MADE BY DFAS-LIMESTONE TFMS-M - F89900 ACCTG DISB STA NR 389900 DFAS LI TFMS M 27 ARKANSAS RD STE 600 LIMESTONE ME 04751-6217		CODE F89900		MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.	
16. TYPE OF ORDER	DELIVERY/ CALL	<input checked="" type="checkbox"/>	This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.						
	PURCHASE		Reference your quote dated Furnish the following on terms specified herein. REF:						
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.									
NAME OF CONTRACTOR			SIGNATURE			TYPED NAME AND TITLE			DATE SIGNED (YYYYMMDD)
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:									
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule									
18. ITEM NO.	19. SCHEDULE OF SUPPLIES/ SERVICES			20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT		
	SEE SCHEDULE								
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.				24. UNITED STATES OF AMERICA TEL: 618-220-7061 EMAIL: Lisa.Gross@ustrancom.mil BY: LISA A. GROSS		25. TOTAL \$460,159.36		26. DIFFERENCES	
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED									
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE					28. SHIP NO.	29. DO VOUCHER NO.	30. INITIALS		
f. TELEPHONE NUMBER					g. E-MAIL ADDRESS		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR
36. I certify this account is correct and proper for payment.					31. PAYMENT		34. CHECK NUMBER		
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER			31. COMPLETE 31. PARTIAL 31. FINAL		35. BILL OF LADING NO.		
37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED (YYYYMMDD)	40. TOTAL CONTAINERS	41. S/R ACCOUNT NO.	42. S/R VOUCHER NO.				

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
1001	Labor for Analysis of Mobility Platform LH Labor, in accordance with Performance Work Statement (PWS) paragraph 1.3, Specific Tasks, and all subparagraphs. Period of Performance is 18 May 2011 through 30 Sep 2011. FOB: Destination PURCHASE REQUEST NUMBER: W81GYE11019100 SIGNAL CODE: A	460,159.36	Lot	\$1.00	\$460,159.36
TOT ESTIMATED PRICE					\$460,159.36
CEILING PRICE					\$0.00
ACRN AA					\$460,159.36
CIN: W81GYE110191000000AA					

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
1001	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
1001	POP 18-MAY-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97 X 4930 FD30 1 E3 35 9900 TTTM0000000 B200 2515 MIPR1EDAT99000 389900

AMOUNT: \$460,159.36

CIN W81GYE110191000000AA: \$460,159.36

Section J - List of Documents, Exhibits and Other Attachments

ADMINISTRATIVE MATTERS

ADMINISTRATIVE MATTERS

A. ACQUISITION POINT OF CONTACT:

Contracting Officer

Lisa A. Gross

USTRANSCOM/TCAQ-D

PHONE: 618-220-7061

E-MAIL: Lisa.Gross@ustranscom.mil

B. ADMINISTRATIVE POINT OF CONTACT:

After award has been made, the USTRANSCOM Directorate of Acquisition will administer this order. Any requests for information or clarification after award of order shall be referred to the buyer:

James Hill

Contract Specialist

USTRANSCOM/TCAQ-D

Phone: 618-220-7073

E-Mail: James.Hill@ustranscom.mil

C. Invoicing and Receiving Report Procedures: To expedite payment of this order, you are required to submit your invoice through DFAS Limestone (see block 18a) and courtesy copy Mr. Jesse Adkins at Jesse.R.Adkins@us.army.mil and Jamie Hill at James.Hill@ustranscom.mil. Invoices are to be faxed to (317) 275-0178 REF: TFMS VENDOR PAY or emailed to DFAS-LI-TFMS-AP@DFAS.MIL. The phone number/email for DFAS Customer Service for all issues concerning payment is 1-800-756-4571 or cco-af-vpis@dfas.mil.

D. Unilateral Modification: Notwithstanding FAR 52.212-4(c), the contractor specifically agrees that unilateral modifications for the purpose of making administrative changes (such as changes in accounting codes, payment offices, and other administrative changes which do not affect the terms and conditions of this order) may be issued without prior notice to the contractor. The contractor shall receive copies of unilateral modifications for record keeping purposes.

PWS**PERFORMANCE WORK STATEMENT
FOR****TASK ORDER (TO) 0005****ANALYSIS OF MOBILITY PLATFORM (AMP)****15 February 2011****1.0 DESCRIPTION OF SERVICES**

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses.

1.2 Scope. This Performance Work Statement (PWS) contains requirements in support of the AMP Federation of models. All provisions of the basic contract apply.

1.3 Specific Tasks. The specific task areas in which the described support will be performed are Studies Support, Maintenance, System Administration, and Configuration Management.

1.3.2.1 Task Area 2 Subtask 1 – AMP Analysis. The contractor shall analyze AMP software to determine the applicability of and describe in detail options for migration of AMP software to a Service Oriented Architecture (SOA) environment that would be consistent with USTRANSCOM's Corporate Services Vision (CSV), given time constraints and current status of the CSV at the time of the analysis. The evolution of AMP to the AMP Mode Integration (AMI) shall be a consideration in this analysis. Also, the analysis shall address the potential to host various AMP functionalities (e.g., tools, federated components, or other appropriately cohesive elements) on iDistribute. The analysis shall contain a framework that will enable the Government to determine the degree of compliance of the various migration options presented in the analysis with the CSV.

While the contractor is free to address any issues it deems relevant to the objectives of this analysis, the analysis shall address the following: (1) How will any proposed SOA-based implementation impact performance of the tool? (2) Is there a feasible SOA-based approach/approaches that strike a good balance between performance and services (i.e., a balance that makes the solution usable for most if not all modeling analyses)? (3) What would be the estimated cost to implement the various options? (4) Will the solution(s) operate on a standalone (thick client) environment as well as server-based (thin-client, browser-based)? (5) Are there any programming language considerations?

The analysis shall present the various tradeoffs of the analyzed options (to include cost, performance, platform dependence, standalone vs. browser based operation) so that the government can make an informed decision regarding the benefits and costs of migrating AMP to a SOA environment.

The contractor shall document the analysis, together with its findings and recommendations, in a white paper.

Deliverable: White Paper

1.3.6.1 Task Area 6 Subtask 1 – AMP-PAT Software Maintenance. The Contractor shall provide software upgrades, testing and software (bug) fixes for AMP-PAT.

Deliverables: Software Release, Updated User Guide, Updated Help Text.

1.3.6.2 Task Area 6 Subtask 2 – AMP-PAT Documentation. The contractor shall upgrade or generate comprehensive user documentation of the following AMP-PAT tools: ATT, ARAT, AST, STT, SRAT, and SST. This documentation shall include port process diagrams, model calculations/formulas, planning factors, and the differences between seaport POE and POD processes and formulas. The contractor shall provide this documentation in printable, searchable help menu format.

1.3.6.3 Task Area 6 Subtask 3 – AMP-PAT Airport Simulation Tool (AST) and Airport Throughput Tool (ATT) data updates. The contractor shall maintain model data currency by updating the UTC list with user-provided current UTC definitions. In addition, the contractor shall update aircraft planning cargo load default factors, team size composition details (for load teams, safety teams, cargo yard teams), MHE planning default factors, and aerial port and aircraft maintenance personnel and equipment/vehicles. The contractor also shall evaluate aircraft maintenance manpower standards from the Logistics Composite Model (LCOM) and the aerial port manpower standards for applicability to AMP-PAT modeling.

1.3.7.1 Task Area 7 Subtask 1 – AMP Federation Model User Training. The contractor shall provide four periods of AMP classroom training to support the rapidly increasing user base. Each class shall be planned for four days, 7 hours of training per day.

1.3.10.1 Task Area 10 Subtask 1 – Evaluating Requested Changes. The contractor shall provide requirements analysis to support the new user-required changes to airport and seaport modeling & simulation capabilities in

AMP-PAT as a result of the rapid growth of users. The contractor shall plan for an additional 20 complex requirements to be evaluated and estimated.

1.4 Deliverables. The contractor shall provide all deliverables electronically to the PM; the deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software. Large files shall be provided on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD. The contractor shall provide a soft copy of each deliverable to each of the following organizational e-mail accounts: ustcj6-p-cm@ustranscom.mil and ustcj6-pc-ms@ustranscom.mil.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. "Format", as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date
1.3.2.1	White Paper	Contractor-Determined	1 September 2011	15 calendar days from receipt of Government comments
1.3.6.1.2	Software Release	Contractor-Determined	1 September 2011 (ORR)	30 September 2011 (PRR)
1.3.6.1.2	Updated User Guide	Contractor-Determined	1 September 2011	15 calendar days from receipt of Government comments
1.3.6.1.2	Updated Help Text	Contractor-Determined	1 September 2011	15 calendar days from receipt of Government comments

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Document 100% complete, delivered on time, all issues addressed. One set of government comments required, with no critical and two or fewer substantive comments per document. (A "set" is defined as one instantiation of Government comments on a draft deliverable.) Software: delivered on time at scheduled ORR, with no Priority 1 problem reports, two or fewer Priority 2 problem reports, four or fewer Priority 3 or below problem reports. All Priority 2 problem	1.3.2.1, 1.3.6.1.2	Document: Late delivery of draft and no more than two (2) days late. Software: delivered on time, with no more than one planned version delivered no more than five business days beyond ORR (according to contractor- and Government-agreed schedule), with no more than two Priority 1 problem reports, four or fewer Priority 2 problem reports, six or fewer Priority 3 or below problem reports. All Priority 1 and 2 and 50% or more of the Priority 3 problem reports submitted during UAT resolved and operational software delivered on time, according to contractor- and Government-agreed schedule, with no more than 1 planned version delivered no more than two business days beyond PRR, according to contractor- and Government-agreed schedule.

reports resolved and production software delivered on time at PRR, according to contractor- and Government-agreed schedule.		
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2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). All provisions of the Contract Level PWS apply.

3.2 Facilities. No facilities specified.

4.0 GENERAL INFORMATION.

4.1 – 4.3 All provisions of the Contract Level PWS apply.

4.4 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB.

4.5 Travel. No travel is anticipated in support of this Task Order.

4.6 – 4.7 All provisions of the Contract Level PWS apply.

4.8 Period of Performance. The period of performance shall be from 18 May 2011 through 30 September 2011.

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF 28

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. HTC711-10-D-S002		2. DELIVERY ORDER/ CALL NO. 0006		3. DATE OF ORDER/ CALL (YYYYMMDD) 2011 Sep 08		4. REQ./ PURCH. REQUEST NO. F3ST951186AA01		5. PRIORITY					
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357				CODE HTC711		7. ADMINISTERED BY (if other than 6) CODE SEE ITEM 6				8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)			
9. CONTRACTOR RAYTHEON BBN TECHNOLOGIES CORP. EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				CODE 3U6L5		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED			
								12. DISCOUNT TERMS Net 30 Days		13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15			
14. SHIP TO USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357				CODE F3ST95		15. PAYMENT WILL BE MADE BY CODE F87700 DFAS-LIMESTONE DEAMS - F87700 ACCTG DISB STA NR 387700 DFAS DEAMS 27 ARKANSAS RD LIMESTONE ME 04751-6216				MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.			
16. TYPE OF ORDER		DELIVERY/ CALL <input checked="" type="checkbox"/>		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.									
		PURCHASE		Reference your quote dated Furnish the following on terms specified herein. REF:									
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.													
NAME OF CONTRACTOR				SIGNATURE				TYPED NAME AND TITLE				DATE SIGNED (YYYYMMDD)	
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:													
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule													
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES				20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT		22. UNIT PRICE		23. AMOUNT	
		SEE SCHEDULE											
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.						24. UNITED STATES OF AMERICA TEL: 618-220-7061 EMAIL: Lisa.Gross@ustrancom.mil BY: LISA A. GROSS		<i>Lisa A. Gross</i> CONTRACTING / ORDERING OFFICER		25. TOTAL \$539,462.65 EST		26. DIFFERENCES	
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED													
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE						c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE						28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS			
f. TELEPHONE NUMBER		g. E-MAIL ADDRESS				<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR			
36. I certify this account is correct and proper for payment.						31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL				34. CHECK NUMBER			
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER								35. BILL OF LADING NO.			
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.		42. S/R VOUCHER NO.			

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0001		1	Lot	\$517,113.65	\$517,113.65
	Labor for AMP-PAT LH Labor PWS Specific Tasks: 11.66.1, 11.66.2.1, 11.66.3, 11.66.4.1, 11.66.5, 11.66.6, 11.66.7.1, 11.66.7.2, 11.66.7.3, 11.66.8.1 for the period of 9 Sep 2011 - 30 Sep 2011 FOB: Destination SIGNAL CODE: A				
				TOT MAX PRICE	\$517,113.65

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000101		UNDEFINED	Lot	UNDEFINED	UNDEFINED
	Funding SLIN LH This SLIN is to fund CLIN 0001. FOB: Destination PURCHASE REQUEST NUMBER: F3ST951186AA01 SIGNAL CODE: A				
				TOT MAX PRICE	\$0.00 EST
	ACRN AA				\$517,113.65
	CIN: 00000000000000049707				

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0002		UNDEFINED	Lot	UNDEFINED	\$13,849.00
	Travel COST Travel for the period of 9 Sep 2011 - 30 Sep 2011 FOB: Destination SIGNAL CODE: A				
				MAX COST	\$13,849.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000201		UNDEFINED	Lot	UNDEFINED	\$0.00
	Funding SLIN COST Funding SLIN for CLIN 0002. FOB: Destination PURCHASE REQUEST NUMBER: F3ST951186AA01 SIGNAL CODE: A				
				MAX COST	UNDEFINED
	ACRN AA				\$13,849.00
	CIN: 00000000000000049708				

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0003		UNDEFINED	Lot	UNDEFINED	\$8,500.00
	Other Direct Costs				
	COST				
	Other Direct Costs for the period of 9 Sep 2011 - 30 Sep 2011				
	FOB: Destination				
	SIGNAL CODE: A				
				MAX COST	\$8,500.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
000301		UNDEFINED	Lot	UNDEFINED	\$0.00
	Funding SLIN				
	COST				
	Funding SLIN for CLIN 0003				
	FOB: Destination				
	PURCHASE REQUEST NUMBER: F3ST951186AA01				
	SIGNAL CODE: A				
				MAX COST	UNDEFINED
	ACRN AA				\$8,500.00
	CIN: 00000000000000049709				

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1001		1	Lot	\$1,034,540.16	\$1,034,540.16
OPTION	Labor for AMP-PAT LH Labor PWS Specific Tasks: 11.66.2.2, 11.66.2.4, 11.66.4.2, 11.66.8.2, 11.66.9, 11.66.10, 11.66.11 for the period of 1 Oct 2011 - 30 Sep 2012 FOB: Destination SIGNAL CODE: A				
TOT MAX PRICE					\$1,034,540.16

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1002		UNDEFINED	Lot	UNDEFINED	\$13,427.80
OPTION	Travel COST Travel for the period of 1 Oct 2011 - 30 Sep 2012 FOB: Destination SIGNAL CODE: A				
MAX COST					\$13,427.80

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
1003		UNDEFINED	Lot	UNDEFINED	\$8,500.00
OPTION	Other Direct Costs COST Other Direct Costs for period of performance 1 Oct 2011 - 30 Sep 2012 FOB: Destination SIGNAL CODE: A				
				MAX COST	\$8,500.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
2001		1	Lot	\$570,272.20	\$570,272.20
OPTION	Labor for AMP-PAT LH Labor PWS Specific Tasks: 1.3.1, 11.66.2.3, 11.66.2.5, 11.66.8.3 for the period of 1 Oct 2012 - 30 Sep 2013 FOB: Destination SIGNAL CODE: A				
				TOT MAX PRICE	\$570,272.20

Section C - Descriptions and Specifications

PWS

PERFORMANCE WORK STATEMENT

FOR

TASK ORDER (TO) 0006

ANALYSIS OF MOBILITY PLATFORM (AMP)

20 June 2011

1.0 DESCRIPTION OF SERVICES

1.1 Background.

The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing distribution analyses. AMP is primarily used to support Joint Collaborative Analysis and Adaptive Planning and Execution modeling of theater distribution scenarios. One of the models developed within the AMP suite of models is the AMP Port Analysis Tools (AMP-PAT) Suite that enables analysts and planners to evaluate airport and seaport operations and capabilities. AMP-PAT modeling tools help identify strengths and weaknesses of airport and seaport capabilities and enable users to run a variety of scenarios to assess how various changes might impact operations. The AMP-PAT suite includes the following modeling tools:

- Airport Simulation Tool (AST) and Seaport Simulation Tool (SST). These tools provide a constructive, stochastic, discrete-event simulation of airport and seaport transportation resources and processes.
- Airport Throughput Tool (ATT) and Seaport Throughput Tool (STT). The ATT and STT are analysis and planning tools that determine an airport or seaport's maximum throughput and a quick-look analysis of the factors restricting throughput.
- Airport Rapid Analysis Tool (ARAT) and Seaport Rapid Analysis Tool (SRAT). These are Time-Phased Force and Deployment Data (TPFDD) refinement tools that provide a quick-look analysis of airport and seaport transportation enablers' capability to meet the TPFDD reception and onward movement of cargo and passengers.

These six existing models are being used to support the Agile Transportation for the 21st Century (AT21) Optimization of Port Operations. These AT21 initiatives are aimed at developing technology to assist “optimizing” delivery of cargo and personnel to support USTRANSCOM movements. Optimization is viewed in a Plan, Prepare, Execute, and Assess paradigm and is envisioned to occur throughout the various stages of cargo and passenger movements within the Joint Distribution and Deployment Enterprise (JDDE). In an effort to provide the command and its components early optimization tools, it was determined that by adapting existing Joint Distribution Process Analysis Center (JDPAC) optimization tools, a series of projects would be initiated by the JDPAC that would support the AT21 Goals. The Nodal Management initiative is one of these projects and the improvement of AMP-PAT, one of these optimization tools, is the objective.

1.2 Scope. This Performance Work Statement (PWS) provides for the adaptation of AMP’s AST to the specifications required to support detailed airport operations modeling sufficient to optimize daily as well as future operations and to allow the user to determine the optimal augmentation requirements to support TPFDD movements at a particular airport. The PWS also contains requirements in support of the other two AMP-PAT for airports: ATT and ARAT. In addition, the PWS contains requirements for the development of a site survey support tool to be used during airport and seaport site surveys. All provisions of the basic contract apply.

1.3 Specific Tasks. The specific task areas with associated subtasks to be performed are identified as: Contract Management, Requirements Definition, Design and Development, System Administration, Information Assurance, Configuration Management, and Enhancements.

1.3.1 (FY13 Optional Task) Compatibility with the USTRANSCOM Common Computing Environment (CCE). The contractor shall develop all software to be compatible with the USTRANSCOM CCE and include the portal visualization layer (distribute.mil). This application will reside on the USTRANSCOM distribute.mil Portal with an associated Database. The application shall be designed to support moving to a future state Service Oriented Architecture (SOA) that is consistent with USTRANSCOM’s Corporate Services Vision (CSV). This shall include support for a web-based user interface that is hosted on an application server while maintaining the capability to run as a standalone client. The Government will provide further direction concerning any distribute.mil design constraints and implementation of the AMP software in the distribute.mil environment when this direction has been developed.

1.3.11 Task Area 11 – New Capability and Enhancements. The contractor shall provide the following new functionality and enhancements to the existing AMP application. Paragraph numbers below are consistent with those found in the basic Indefinite Delivery (ID) / Indefinite Quantity (IQ) contract, HTC711-10-D-S002, but may not sequentially follow each other due to changes in functional priority. The paragraph numbering for those enhancements that do not appear in the basic contract sequentially follow the paragraph numbers for enhancements listed in Task Order 0005 of this contract.

Deliverables: Updates to Software Requirement Specification, Software Test Plan, Software Test Cases, Software Test Reports, Software Releases, User Training Manual, Software Source Code, Site Survey Software and Tool Concept Document

(FY12 Optional Task) Deliverables: Updates to Software Requirement Specification, Software Test Plan, Software Test Cases, Software Test Reports, Software Releases, Updates to User Training Manual, User Manual, Site Survey Tool Operational Platform Recommendation, Airport Site Survey Tool, Software Source Code

(FY13 Optional Task) Deliverables: Updates to Software Requirement Specification, Software Test Plan, Software Test Cases, Software Test Reports, Software Releases, Updates to User Training Manual, User Manual, Site Survey Tool (with ability to select either Airport or Seaport Data Set), Software Source Code

1.3.11.66 AMP-PAT Model Development and Enhancements. The contractor shall provide software development, functionality upgrades, testing and enhancements for the AMP-PAT Airport Analysis Tools by designing, implementing, testing and documenting an Operational Prototype suite of models within AMP to support Nodal Management requirements. Software development shall be consistent with open standards architectures.

1.3.11.66.1 Aircraft De-icing and Hot Weather Operations. The Contractor shall develop AMP-PAT capability to simulate hot and cold adverse weather environments. This shall include modeling extreme hot and cold weather operations, where there will be a user settable equipment and manpower operational degradation factor which will be reflected in the personnel and vehicle simulation modeling. In addition, with cold weather operations, the model shall reflect de-icing fluid storage and resupply as well as the capability to vary times between de-icing aircraft should the aircraft require additional de-icing services prior to takeoff. This time period between de-icings shall be a user settable time period.

1.3.11.66.2 AMP-PAT Airport Models User Documentation

1.3.11.66.2.1 Training Manual. The contractor shall develop a Training Manual for the three AMP-PAT airport models. This manual shall explain the required user inputs, output files, reports and graphics. This training manual is intended primarily to support new user training of non-analysts at the airport level to support daily operations and planning.

1.3.11.66.2.2 (FY12 Optional Task) Updates to Training Manual. The contractor shall update the Training Manual for new functionality delivered to satisfy requirements stipulated in Paragraphs 1.3.11.66.4.2, 1.3.11.66.8.2, 1.3.11.66.9, 1.3.11.66.10, and 1.3.11.66.11.

1.3.11.66.2.3 (FY13 Optional Task) Updates to Training Manual. The contractor shall update the Training Manual for new functionality delivered to satisfy requirements stipulated in Paragraph 1.3.11.66.8.3.

1.3.11.66.2.4 (FY12 Optional Task) User Manual. The contractor shall develop a User Manual for the three AMP-PAT airport models. This manual shall be created in sufficient detail for all users to obtain guidance and reference material to set up and operate the models. The manual shall fully explain the required user inputs, output files, reports and graphics information, and explain the modeling process with supporting screen shots. The manual shall include an explanation of how the simulation abstraction differs from the existing real world airport processes. This manual is intended for full reference and use by all airport level users to support daily operations modeling and planning.

1.3.11.66.2.5 (FY13 Optional Task) Updates to User Manual. The contractor shall update the User Manual for new functionality delivered to satisfy requirements stipulated in Paragraph 1.3.11.66.8.3.

1.3.11.66.3 Contingency/Channel Mission Servicing. The contractor shall develop the capability in the AST and ATT to support various mission types that on/offload or transit an airport. Aircraft landing at an airport vary as to the type of mission and have different servicing requirements. Types of missions requiring servicing include aircraft that remain over night, arrive for onload and offload of cargo and passengers and en route missions requiring fuel and/or crews as necessary. The contractor shall ensure the model understands what type of mission the aircraft is scheduled on and provides the appropriate type of servicing for the mission/aircraft combination. Mission codes shall be obtained from Command and Control systems and/or be a manual input to the model setup. Ground times for each type of mission will become an input to the simulation.

1.3.11.66.4 Enhance Personnel Representation in the AST. The contractor shall enhance the personnel representation within the AST to simulate a higher level of detail for transporter and aircraft maintenance servicing requirements. The AST simulation shall distinguish between personnel qualifications when performing maintenance and cargo/passenger operations.

1.3.11.66.4.1 Enhance Maintenance Personnel Representation in the AST. The contractor shall enhance the model's maintenance personnel functionality by allowing the user to assign Air Force Specialty Codes and Skill Levels to specific maintenance tasks. For example, not all maintenance personnel can sign the AF 781 Forms releasing the aircraft for flight.

1.3.11.66.4.2 (FY12 Optional Task) Enhance Transporter Personnel Representation in the AST. The contractor shall enhance the model's aerial port personnel functionality by allowing the user to assign Air Force

Specialty Codes and Skill Levels to specific transporter tasks. For example, MHE operation requires qualified operators with special skills that not all transporters possess.

1.3.11.66.5 Develop the Ability to Use Logistics Composite Model (LCOM) Maintenance and Aerial Port Manpower Standards in the AST and ATT. The contractor shall provide functionality to insert into the AST LCOM manpower standards. This includes defining transporter and maintenance tasks and the skill levels and time required to accomplish the tasks. For the maintenance (aircraft repairs) a stochastic process for identifying the type of maintenance problem and the mean time for repair is required. Maintenance performed by less skilled personnel on the average should take a longer time to complete. LCOM data for this task will be provided by the Government.

1.3.11.66.6 Develop the Ability to Model Aircraft Repair Parts Availability. The contractor shall develop the model's maintenance functionality to account for, in the maintenance repair functionality, the time required to requisition and receive the aircraft repair parts along with the time required to install the parts (See Paragraph 1.3.11.66.5). This will be done on an aggregated level and not by individual parts and stock numbers. A distribution of time to obtain the repair parts will be used in addition to the time required to make the repair. Data for this distribution will be Government Furnished Information. The contractor shall determine the percentage of the requisition time that will be done in parallel with the total repair time. That is to say the total repair time may not be the sum of the part requisition time and repair time.

1.3.11.66.7 Enhancement to the Airport Throughput Tool (ATT). The contractor shall enhance the ATT to support real world operations.

1.3.11.66.7.1 Ground Time Enhancement. In the ATT "Ground Time" data field in the Graphical User Interface, the contractor shall add a new Ground Time in the pick list that accounts for the aircraft to Remain Overnight (RON) at an airport.

1.3.11.66.7.2 Enhance the Personnel Representation in the ATT. The contractor shall enhance the functionality in the ATT's "Recommended Enabler Plus-Up" tab to account for and report the various Skill Levels required to support the Unit Type Code identified by the ATT recommendations. The Government will provide the data necessary for the contractor to complete this task from LCOM and the results of an Aerial Port Manpower Study.

1.3.11.66.7.3 De-icing in the ATT. The contractor shall provide a 'check-box' in the ATT to identify to the model that the airport is operating under icing conditions. Further, when the 'check-box' is marked the model shall increase the ground time of the aircraft to account for de-icing operations.

1.3.11.66.8 Site Survey Software and Tool Development.

1.3.11.66.8.1 Top Level Concept Document. The contractor shall develop a top level concept document that describes the proposed concept for operation of a site survey tool to assist site survey teams in completing air and sea distribution port surveys. The objective of this task is to reduce survey team documentation burdens and reduce the analyst model setup time. This concept document shall describe how the tool is intended to be used, how Geospatial Information System (GIS) data will be captured, and shall contain diagrams of proposed computer screens and graphics that depict the displays that the operator will use to enter data needed to populate the AMP-PAT air and sea tools. The concept document also shall recommend, for prototyping purposes, a hardware suite that would be light-weight, portable, capable of running the AMP-PAT tools and model, accept detailed GIS data, provide a user friendly interface for site survey data capture, and capable of uploading site survey data files over the internet or government network. The device also shall be capable of taking still photographs or video, or accepting same from an external source. The recommendation shall present the options considered and the rationale for selecting the recommended platform. The contractor shall procure the prototype hardware platform following Government approval.

1.3.11.66.8.2 (FY12 Optional Task) Airport Site Survey Tool Design and Development. The contractor shall design software to assist airport site survey teams in gathering, checking, correcting, and inputting detailed airport and Geospatial Information System data into the AMP-PAT tools. The developer shall include in the tool all elements of airport data contained in Appendix A (current AMP-PAT airport data), as well as any additional airport data elements resulting from the development of other AMP-PAT airport tool capabilities included in this PWS. This AMP-PAT data includes data about aircraft, airport facilities (e.g., parking ramps, cargo/passenger processing, handling or storage capabilities, aircraft fueling systems), and support personnel and equipment. This software shall be designed to operate initially on the hardware suite recommended during the concept phase of this task. The software shall accept and store user data input and perform appropriate data validation of user inputs for port characteristics data.

The contractor shall recommend an operational hardware platform that will run both AMP-PAT and the site survey software. This recommendation shall present the options considered and the rationale for selecting the recommended operational platform.

The contractor shall develop the software, integrate the software with the Government-approved operational hardware, test, and document an Airport Site Survey Tool. Following development of the airport site survey tool, the contractor shall demonstrate its capability and operation to the Government at Scott AFB and at two potential combatant command users of the tool (refer to Paragraph 1.3.11.66.11).

Testing of the software developed for the Airport Site Survey Tool shall comply with the software testing processes described in the basic contract. The contractor shall plan to develop the software so that the software will be delivered for User Acceptance Testing no later than the mutually agreed upon date for Operational Readiness Review.

1.3.11.66.8.3 (FY13 Optional Task) Seaport Site Survey Tool Design and Development. The contractor shall design software to assist seaport site survey teams in gathering, checking, correcting, and inputting detailed seaport and Geospatial Information System data into the AMP-PAT tools. The developer shall include in the tool all elements of seaport data contained in Appendix B (current AMP-PAT seaport data). This AMP-PAT data includes data about ships, seaport facilities (anchorage, berths, aprons, cargo/passenger processing, handling or storage capabilities, fueling systems), highways and gates, seaport rail access, port locomotives, terminal rail yards and spurs, terminal railcar types, capabilities, and loading, and support personnel and equipment. This software shall be designed to operate initially on the hardware suite recommended during the concept phase of this task. The software shall accept and store user data input and perform appropriate data validation of user inputs for port characteristics data.

The contractor shall develop the software, integrate the software with the Government-approved operational hardware, test, and document a Seaport Site Survey Tool. Following tool development, the contractor shall demonstrate its capability and operation to the Government at Scott AFB. The Seaport Site Survey software and the Airport Site Survey software shall reside within a single application, with the user having the ability to select either the seaport or airport data set.

Testing of the software developed for the Seaport Site Survey Tool shall comply with the software testing processes described in the basic contract. The contractor shall plan to develop the software so that the software will be delivered for User Acceptance Testing no later than the mutually agreed upon date for Operational Readiness Review.

1.3.11.66.9 (FY12 Optional Task) Model Operation Using Operational (C2 System) Data. The contractor shall provide the ability to import manually current aircraft schedules and cargo/passenger manifest data from Command and Control systems into the AST model.

1.3.11.66.10 (FY12 Optional Task) Enhancement of the Airport Rapid Analysis Tool (ARAT). The contractor shall develop the ability to insert into the ARAT a notional airflow to support the determination of enabler feasibility (what personnel, equipment, supplies, etc., are required) for a given TPFDD at a given airport.

1.3.11.66.11 (FY12 Optional Task) Operational Demonstration and Assessment Support. The contractor shall attend and support one Technical Demonstration and two Operational Assessments in support of this Task Order. The contractor shall determine the level of support required to train users and provide software support at the demonstrations and assessments. The Technical Demonstration will occur at USTRANSCOM at Scott AFB, IL. The Operational Assessments will occur at HQ Pacific Air Forces, Hickam AFB, Hawaii; and HQ United States Air Forces in Europe, Ramstein AB, Germany. Each assessment will be from 3-4 days in duration exclusive of travel. The contractor shall deliver a report that includes the results of the demonstration or assessment and the contractor's observations.

1.4 Deliverables. The contractor shall deliver data and software (with applicable data rights) as set forth in the table below. IAW DFARS 252.227-7013 and DFARS 252.227-7014, the Government obtains under this contract “unlimited rights” to all non-commercial computer software, software source code, computer software documentation, enhancements, technical data, and similar non-commercial data developed exclusively at Government expense and delivered to the Government under this contract. “Unlimited rights” means rights to use, modify, reproduce, release, perform, display or disclose in whole or in part, in any manner and for any purpose whatsoever, and to have the ability to authorize others to do so. The contractor agrees that regardless of how contractor provided data/software is developed or modified during contract performance, the contractor will deliver data/software marked IAW requirements in DFARS 252.227-7013, 252.277-7014, or other applicable reference.

For all other non-commercial data delivered under this contract, the Government has the right to use, modify, reproduce, release, display or disclose, in whole or in part, in any manner and for any purpose whatsoever, and to have or authorize others to do so.

The contractor shall provide all deliverables, except software version releases, via e-mail to the PMO Configuration Management Office at this address: ustcj6-p-cm@ustranscom.mil. The contractor shall post software version releases to the USTRANSCOM-provided Joint Deployment Planning and Analysis Center webshare. The document deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software, with the exception of source code and executables, which the contractor shall provide in native code language. The contractor shall upload files directly into the webshare.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. “Format”, as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date	Data Rights
1.3.11.66 sub-paragraphs	Software Requirement Specification (SRS)	Contractor-Determined Format	NLT 21 business days before scheduled initial delivery of software	NLT 10 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Updates to SRS	Contractor-Determined Format	NLT 21 business days before scheduled initial delivery of software	NLT 10 business days after receipt of Government comments	Unlimited

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date	Data Rights
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Updates to SRS	Contractor-Determined Format	NLT 21 business days before scheduled initial delivery of software	NLT 10 business days after receipt of Government comments	Unlimited
1.3.11.66 sub-paragraphs	Software Test Plan	Contractor - Determined Format	NLT 15 business days before scheduled Test Readiness Review (TRR)	NLT 7 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Plan	Contractor - Determined Format	NLT 15 business days before scheduled Test Readiness Review (TRR)	NLT 7 business days after receipt of Government comments	Unlimited
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Plan	Contractor - Determined Format	NLT 15 business days before scheduled Test Readiness Review (TRR)	NLT 7 business days after receipt of Government comments	Unlimited
1.3.11.66 sub-paragraphs	Software Test Cases	Contractor - Determined Format	NLT 15 business days before TRR	NLT 7 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Cases	Contractor - Determined Format	NLT 15 business days before TRR	NLT 7 business days after receipt of Government comments	Unlimited
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Cases	Contractor - Determined Format	NLT 15 business days before TRR	NLT 7 business days after receipt of Government comments	Unlimited
1.3.11.66 sub-paragraphs	Software Test Reports	Contractor - Determined Format	N/A	Not later than five business days following completion of system test	N/A

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date	Data Rights
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Reports	Contractor - Determined Format	N/A	Not later than five business days following completion of system test	N/A
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Reports	Contractor - Determined Format	N/A	Not later than five business days following completion of system test	N/A
1.3.11.66.1, 1.3.11.66.3, 1.3.11.66.4-4.1, 1.3.11.66.5, 1.3.11.66.6, 1.3.11.66.7-7.3	Software Release (one for Paragraphs noted)	Contractor-Determined Format	Initial delivery by scheduled Operational Readiness Review (ORR)	Final delivery at scheduled Production Readiness Review (PRR; to be scheduled NLT one year after date of contract award)	Unlimited
(FY12 Optional Task) 1.3.11.66.4.2, 1.3.11.66.9-66.10	Software Release (one for Paragraphs noted)	Contractor-Determined Format	Initial delivery by scheduled Operational Readiness Review (ORR)	Final delivery at scheduled PRR; to be scheduled NLT one year after date of contract award	Unlimited
(FY12 Optional Task) 1.3.11.66.8.2	Software Release (one for Paragraphs noted)	Contractor-Determined Format	Initial delivery by scheduled Operational Readiness Review (ORR)	Final delivery at scheduled PRR; to be scheduled NLT one year after date of contract award	Unlimited
(FY13 Optional Task) 1.3.11.66.8.3	Software Release (one for Paragraphs noted)	Contractor-Determined Format	Initial delivery by scheduled Operational Readiness Review (ORR)	Final delivery at scheduled PRR; to be scheduled NLT one year after date of contract award	Unlimited
1.3.11.66.2.1	User Training Manual	Contractor-Determined Format	Draft due 15 business days prior to ORR	7 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66.2.2	Updates to User Training Manual	Contractor-Determined Format	Draft updates due 15 business days prior to ORR	7 business days after receipt of Government comments	Unlimited

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date	Data Rights
(FY13 Optional Task) 1.3.11.66.2.3	Updates to User Training Manual	Contractor-Determined Format	Draft updates due 15 business days prior to ORR	7 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66.2.4	User Manual	Contractor-Determined Format	Draft due 15 business days prior to ORR	7 business days after receipt of Government comments	Unlimited
(FY13 Optional Task) 1.3.11.66.2.5	Updates to User Manual	Contractor-Determined Format	Draft due 15 business days prior to ORR	7 business days after receipt of Government comments	Unlimited
1.3.11.66 sub-paragraphs	Software Source Code	Contractor-Determined in Native Format	N/A	By Scheduled PRR	Unlimited
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Software Source Code	Contractor-Determined in Native Format	N/A	By Scheduled PRR	Unlimited
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Software Source Code	Contractor-Determined in Native Format	N/A	By Scheduled PRR	Unlimited
1.3.11.66.8.1	Site Survey Software and Tool Top Level Concept Document and Prototype Hardware Recommendation	Contractor-Determined Format	NLT 60 calendar days after date of contract award	Ten business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66.8.2	Site Survey Tool Operational Platform Recommendation	Contractor-Determined Format	N/A	NLT 31 Aug 2012	Unlimited
(FY12 Optional Task) 1.3.11.66.8.2	Airport Site Survey Tool	Contractor-Determined Format	Initial Delivery by Scheduled ORR	Operational – NLT 30 Nov 2012	Unlimited
(FY13 Optional Task) 1.3.11.66.8.3	Site Survey Tool (with ability to select either Airport or Seaport Data Set)	Contractor-Determined Format	Initial Delivery by Scheduled ORR	Operational – NLT 30 Aug 2013	Unlimited

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date	Data Rights
(FY12 Optional Task) 1.3.11.66.11	Operational Demonstration and Assessment Report (one per theater)	Contractor-Determined Format	N/A	NLT 10 business days following completion of demonstration	N/A

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Documents 100% complete, all delivered on time, all issues addressed. One set of government comments required, with no critical and two or fewer substantive comments per document. (A “set” is defined as one instantiation of Government comments on a draft deliverable.) Software: delivered on time at scheduled ORR, with no Priority 1 problem reports, two or fewer Priority 2 problem reports, four or fewer Priority 3 or below problem reports. All Priority 2 problem reports resolved and production software delivered on time at PRR, according to contractor- and Government-agreed schedule.	1.3.11.66 sub-paragraphs	Documents: No more than one (1) late delivery of draft and no more than five (5) days late. Documents should contain no more than one critical or more than four substantive comments per document. No more than two (2) sets of revisions/corrections with all revisions/corrections accomplished or incorporated by due date. (A second “set” may be necessary should Government comments be required on the second draft (or “final”) delivery in response to the first set of Government comments.) Software: delivered by scheduled ORR date (according to contractor- and Government-agreed schedule), with no more than two Priority 1 problem reports, four or fewer Priority 2 problem reports, six or fewer Priority 3 or below problem reports. All Priority 1 and 2 and 50% or more of the Priority 3 problem reports submitted during UAT resolved and operational software delivered by scheduled PRR, according to contractor- and Government-agreed schedule.

2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY, SERVICES, AND INFORMATION

3.1 Government-Furnished Equipment (GFE). All provisions of the Contract Level PWS apply.

3.2 Facilities. No facilities specified.

3.3 Government-Furnished Information (GFI). GFI for this task order is described in Table 3.3-1 below.

Table 3.3-1. Government-Furnished Information

Paragraph Reference	Item
1.3.11.66.4.1	List of Air Force Specialty Codes and Skill Levels (JDPAC to provide within 30 days of contract award)
1.3.11.66.5, 1.3.11.66.7.2	LCOM Data (JDPAC to provide within 30 days of contract award)
1.3.11.66.5, 1.3.11.66.7.2	Aerial Port Manpower Study Data (JDPAC to provide within 30 days of contract award)
1.3.11.66.6	Data for Distribution of Time to Obtain Repair Parts (JDPAC to provide within 30 days of contract award)

4.0 GENERAL INFORMATION.

4.1 – 4.3 All provisions of the Contract Level PWS apply.

4.4 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB. Testing activities shall be conducted at a contractor facility not located within the

confines of Scott AFB, and at Scott AFB (within the JDPAC.) Demonstrations shall be performed at Scott AFB, Hickam AFB HI, and Ramstein AB GE.

4.5 Travel. Contractor personnel may be required to travel within the U.S. and overseas to perform tasks required in this PWS. The Government shall reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). The contractor PM shall approve and forward travel requests to the COR for Government validation prior to the contractor incurring any travel expense. Travel requests shall be submitted to the COR a minimum of five (5) workdays in advance of travel commencement date. Travel requests shall be in writing and contain the dates, locations, and estimated costs for the travel. Invoices (along with associated receipts) shall support all travel reimbursement requests. The Government shall not reimburse local travel and related expenses to the contractor for daily travel to or from the place of performance. Contractors shall not use General Services Administration city pair contracts. The contractor shall not exceed the estimated travel amount stated in this task order. The following trips are estimated:

Location	# Trips	# Days	# People
(All trips to be completed before 30 Sep 2012) Scott AFB, IL Task 1.3.11.66	5	3	2
(FY12 Optional Task) Hickam AFB, Hawaii Task 1.3.11.66	1	3-4	2
(FY12 Optional Task) Ramstein AB, Germany Task 1.3.11.66	1	3-4	2

4.6 Other Direct Costs. The Government will reimburse allowable other direct costs (ODCs) incurred in the performance of this task order. ODCs may include, but are not limited to, software, group teleconferencing fees, and membership/conference fees. The primary or alternate COR will approve all ODCs prior to the incurring of any expenses. The contractor shall submit ODC requests in writing to the COR at least five (5) business days in advance of incurring any expenses. The request shall contain estimated costs. The contractor may be required to submit at least two quotes for high dollar value items. Contractor invoices (along with associated receipts) shall support all ODC reimbursement requests. Note: General and Administrative overhead charges will not be accepted or paid for approved ODC purchases.

4.7 Period of Performance. This PWS encompasses three periods of performance: One for those tasks not marked as “Optional”, and two for tasks marked “Optional.” The first period shall be from the date of contract award through 30 September 2012. The second period shall be from date of modification approval (anticipated through 30 September 2013). The third period shall be from date of modification approval through 30 September 2013.

4.8 – 5.19 All provisions of the Contract Level PWS apply.

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
000101	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
000201	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
000301	Destination	Government	Destination	Government
1001	Destination	Government	Destination	Government
1002	Destination	Government	Destination	Government
1003	Destination	Government	Destination	Government
2001	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 09-SEP-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000101	N/A	N/A	N/A	N/A
0002	POP 09-SEP-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

000201	N/A	N/A	N/A	N/A
0003	POP 09-SEP-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000301	N/A	N/A	N/A	N/A
1001	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
1002	POP 01-OCT-2011 TO 30-SEP-2012	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
1003	POP 01-OCT-2011 TO 30-SEP-2012	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95

2001	POP 01-OCT-2012 TO 30-SEP-2013	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	F3ST95
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Section G - Contract Administration Data

DFAS PAYMENT INSTRUCTIONS

ITEM(S) 0001-0003 - DFAS PAYMENT INSTRUCTIONS

In accordance with DFARS Procedure Guidance Information (PGI) 204.7108(d)(1), Line Item Specific: Single Funding. (SEP 2009), The payment office shall make payment using the ACRN funding of the line item being billed.

ACCOUNTING AND APPROPRIATION DATA

AA: 9710400.5109 8K1 70AB 30603763713S G5050G 588DG 63713S 387700 F87700
AMOUNT: \$539,462.65
CIN 00000000000000049707: \$517,113.65
CIN 00000000000000049708: \$13,849.00
CIN 00000000000000049709: \$8,500.00

CLAUSES INCORPORATED BY REFERENCE

252.204-0001	Line Item Specific: Single Funding	SEP 2009	Applicable CLINs: 0001, 000101, 0002, 000201, 0003, 000301
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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. 01		3. EFFECTIVE DATE 26-Sep-2011		4. REQUISITION/PURCHASE REQ. NO. F3ST951185AA01		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE HTC711 USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BBN TECHNOLOGIES CORP EILEEN NAYLOR 10 MOULTON ST CAMBRIDGE MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0006			
				X 10B. DATED (SEE ITEM 13) 08-Sep-2011			
CODE 3U6L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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 CONTRACT ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
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.							
X 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).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tciktktj112128 The purpose of this no cost unilateral modification is to correct an administrative oversight on CLINS 0001, 0002, 0003. The period of performance for CLINS 0001, 0002, and 0003 is hereby changed from 9 Sep 11 through 30 Sep 11 to 9 Sep 11 through 8 Sep 12 to match the offeror's quote. The start date for the period of performance for CLINS 1001, 1002, 1003 and 2001 will be specified at a later date.							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LISA A. GROSS / CONTRACTING OFFICER TEL. 618-220-7061 EMAIL: Lisa.Gross@ustrancom.mil			
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY <u>Lisa A. Gross</u> (Signature of Contracting Officer)		16C. DATE SIGNED 26-Sep-2011	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 0001

The CLIN extended description has changed from Labor PWS Specific Tasks: 11.66.1, 11.66.2.1, 11.66.3, 11.66.4.1, 11.66.5, 11.66.6, 11.66.7.1, 11.66.7.2, 11.66.7.3, 11.66.8.1 for the period of 9 Sep 2011 - 30 Sep 2011 to Labor PWS Specific Tasks: 11.66.1, 11.66.2.1, 11.66.3, 11.66.4.1, 11.66.5, 11.66.6, 11.66.7.1, 11.66.7.2, 11.66.7.3, 11.66.8.1 for the period of 9 Sep 2011 - 8 Sep 2012.

CLIN 0002

The CLIN extended description has changed from Travel for the period of 9 Sep 2011 - 30 Sep 2011 to Travel for the period of 9 Sep 2011 - 8 Sep 2012.

CLIN 0003

The CLIN extended description has changed from Other Direct Costs for the period of 9 Sep 2011 - 30 Sep 2011 to Other Direct Costs for the period of 9 Sep 2011 - 8 Sep 2012.

CLIN 1001

The CLIN extended description has changed from Labor PWS Specific Tasks: 11.66.2.2, 11.66.2.4, 11.66.4.2, 11.66.8.2, 11.66.9, 11.66.10, 11.66.11 for the period of 1 Oct 2011 - 30 Sep 2012 to Labor PWS Specific Tasks: 11.66.2.2, 11.66.2.4, 11.66.4.2, 11.66.8.2, 11.66.9, 11.66.10, 11.66.11. The period of performance will be determined at a later date. A subsequent modification will be issued when funding is available..

CLIN 1002

The CLIN extended description has changed from Travel for the period of 1 Oct 2011 - 30 Sep 2012 to Travel. POP - Date of award through 30 Sep 2012. The period of performance will be determined at a later date. A subsequent modification will be issued when funding is available..

CLIN 1003

The CLIN extended description has changed from Other Direct Costs for period of performance 1 Oct 2011 - 30 Sep 2012 to Other Direct Costs. POP - Date of award through 30 Sep 2012. The period of performance will be determined at a later date. A subsequent modification will be issued when funding is available..

CLIN 2001

The CLIN extended description has changed from Labor PWS Specific Tasks: 1.3.1, 11.66.2.3, 11.66.2.5, 11.66.8.3 for the period of 1 Oct 2012 - 30 Sep 2013 to Labor PWS Specific Tasks: 1.3.1, 11.66.2.3, 11.66.2.5, 11.66.8.3. POP - Date of Award through 30 Sep 2013. The period of performance will be determined at a later date.

A subsequent modification will be issued when funding is available. .

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for CLIN 0001 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-SEP-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-SEP-2011 TO 08-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 0002 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-SEP-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-SEP-2011 TO 08-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 0003 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-SEP-2011 TO 30-SEP-2011	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 09-SEP-2011 TO 08-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

(End of Summary of Changes)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE Z		PAGE OF PAGES 1 18	
2. AMENDMENT/MODIFICATION NO. 02		3. EFFECTIVE DATE 9 Mar 12		4. REQUISITION/PURCHASE REQ. NO. SEE SCHEDULE		5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357		7. ADMINISTERED BY (If other than item 6) CODE See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) RAYTHEON BEN TECHNOLOGIES CORP. EILEEN NAYLOR 10 Moulton St Cambridge MA 02138-1119				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				X 10A. MOD. OF CONTRACT/ORDER NO. HTC711-10-D-S002-0006			
				X 10B. DATED (SEE ITEM 13) 08-Sep-2011			
CODE 3U6L5		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 _____ copies 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 ACKNOWLEDGMENT 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) See Schedule							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
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.							
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).							
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-3 - Changes -- Time and Materials or Labor-Hours							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modification Control Number: tcdetmjm12027 The purpose of this bilateral modification is to fund FY12 Optional Tasks (CLIN 1001), add travel and ODC funds to CLINS 1002 and 1003, and make no-cost changes to the PWS. As a result of this modification, \$1,056,467.96 has been added to the task order. The POC for this contract action is Jen Detmer, jennifer.detmer@ustrancom.mil, (618) 220-7046.							
Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print) Michael C. Neff Sr. Manager, Contracts				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) LISA A. GROSS, Contracting Officer			
15B. CONTRACTOR/OFFEROR Michael C. Neff (Signature of person authorized to sign)		15C. DATE SIGNED 3/9/2012		16B. UNITED STATES OF AMERICA Lisa A. Gross (Signature of Contracting Officer)		16C. DATE SIGNED 9 Mar '12	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION A - SOLICITATION/CONTRACT FORM

The total cost of this contract was increased by \$1,056,467.96 from \$539,462.65 (EST) to \$1,595,930.61 (EST).

SECTION B - SUPPLIES OR SERVICES AND PRICES

CLIN 1001

The CLIN extended description has changed from Labor PWS Specific Tasks: 11.66.2.2, 11.66.2.4, 11.66.4.2, 11.66.8.2, 11.66.9, 11.66.10, 11.66.11. The period of performance will be determined at a later date. A subsequent modification will be issued when funding is available. to Labor PWS Specific Tasks: 11.66.2.2, 11.66.2.4, 11.66.4.2, 11.66.8.2, 11.66.9, 11.66.10, 11.66.11. POP: 12 March 12 - 30 Sep 12FY12 RDT&E Funds.

The option status has changed from Option to No Status.

CLIN 1002

The CLIN extended description has changed from Travel. POP - Date of award through 30 Sep 2012. The period of performance will be determined at a later date. A subsequent modification will be issued when funding is available. to Travel. POP - 12 March 12 - 30 Sep 12FY12 RDT&E Funds.

The option status has changed from Option to No Status.

CLIN 1003

The CLIN extended description has changed from Other Direct Costs. POP - Date of award through 30 Sep 2012. The period of performance will be determined at a later date. A subsequent modification will be issued when funding is available. to Other Direct Costs. POP - 12 March 12 - 30 Sep 12FY12 RDT&E Funds.

The option status has changed from Option to No Status.

SUBCLIN 100101 is added as follows:

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
100101	Funding for CLIN 1001		Lot	\$0.00 (EST.)	\$0.00 (EST.)
	LH				
	FOB: Destination				
	PURCHASE REQUEST NUMBER: F3ST952045A001				
	SIGNAL CODE: A				
				TOT ESTIMATED PRICE	\$0.00 NTE
				CEILING PRICE	
	ACRN AB				\$1,034,540.16

CIN: 00000000000000078467

SUBCLIN 100201 is added as follows:

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
100201	Funding for CLIN 1002 COST FOB: Destination PURCHASE REQUEST NUMBER: F3ST952045A001 SIGNAL CODE: A	UNDEFINED	Lot	UNDEFINED	\$0.00
				MAX COST	\$0.00
	ACRN AB CIN: 00000000000000078468				\$13,427.80

SUBCLIN 100301 is added as follows:

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
100301	Funding for CLIN 1003 COST FOB: Destination PURCHASE REQUEST NUMBER: F3ST952045A001 SIGNAL CODE: A	UNDEFINED	Lot	UNDEFINED	\$0.00
				MAX COST	\$0.00
	ACRN AB CIN: 00000000000000078469				\$8,500.00

SECTION C - DESCRIPTIONS AND SPECIFICATIONS

The following have been added by full text:
PWS 23 FEB 12

**PERFORMANCE WORK STATEMENT
FOR
TASK ORDER (TO) 0006
ANALYSIS OF MOBILITY PLATFORM (AMP)**

23 February 2012

1.0 DESCRIPTION OF SERVICES

1.1 Background.

The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing distribution analyses. AMP is primarily used to support Joint Collaborative Analysis and Adaptive Planning and Execution modeling of theater distribution scenarios. One of the models developed within the AMP suite of models is the AMP Port Analysis Tools (AMP-PAT) Suite that enables analysts and planners to evaluate airport and seaport operations and capabilities. AMP-PAT modeling tools help identify strengths and weaknesses of airport and seaport capabilities and enable users to run a variety of scenarios to assess how various changes might impact operations. The AMP-PAT suite includes the following modeling tools:

- Airport Simulation Tool (AST) and Seaport Simulation Tool (SST). These tools provide a constructive, stochastic, discrete-event simulation of airport and seaport transportation resources and processes.
- Airport Throughput Tool (ATT) and Seaport Throughput Tool (STT). The ATT and STT are analysis and planning tools that determine an airport or seaport's maximum throughput and a quick-look analysis of the factors restricting throughput.
- Airport Rapid Analysis Tool (ARAT) and Seaport Rapid Analysis Tool (SRAT). These are Time-Phased Force and Deployment Data (TPFDD) refinement tools that provide a quick-look analysis of airport and seaport transportation enablers' capability to meet the TPFDD reception and onward movement of cargo and passengers.

These six existing models are being used to support the Agile Transportation for the 21st Century (AT21) Optimization of Port Operations. These AT21 initiatives are aimed at developing technology to assist "optimizing" delivery of cargo and personnel to support USTRANSCOM movements. Optimization is viewed in a Plan, Prepare, Execute, and Assess paradigm and is envisioned to occur throughout the various stages of cargo and passenger movements within the Joint Distribution and Deployment Enterprise (JDDE). In an effort to provide the command and its components early optimization tools, it was determined that by adapting existing Joint Distribution Process Analysis Center (JDPAC) optimization tools, a series of projects would be initiated by the JDPAC that would support the AT21 Goals. The Nodal Management initiative is one of these projects and the improvement of AMP-PAT, one of these optimization tools, is the objective.

1.2 Scope. This Performance Work Statement (PWS) provides for the adaptation of AMP's AST to the specifications required to support detailed airport operations modeling sufficient to optimize daily as well as future operations and to allow the user to determine the optimal augmentation requirements to support TPFDD movements at a particular airport. The PWS also contains requirements in support of the other two AMP-PAT for airports: ATT and ARAT. In addition, the PWS contains requirements for the development of a site survey support tool to be used during airport and seaport site surveys. All provisions of the Contract HTC711-10-D-S002 apply.

1.3 Specific Tasks. The specific task areas with associated subtasks to be performed are identified as: Contract Management, Requirements Definition, Design and Development, System Administration, Information Assurance, Configuration Management, and Enhancements.

1.3.1 (FY13 Optional Task) Compatibility with the USTRANSCOM Common Computing Environment (CCE). The contractor shall develop all software to be compatible with the USTRANSCOM CCE and include the portal visualization layer (distribute.mil). This application will reside on the USTRANSCOM distribute.mil Portal with an associated Database. The application shall be designed to support moving to a future state Service Oriented Architecture (SOA) that is consistent with USTRANSCOM's Corporate Services Vision (CSV). This shall include support for a web-based user interface that is hosted on an application server while maintaining the capability to run as a standalone client. The Government will provide further direction concerning any distribute.mil design constraints and implementation of the AMP software in the distribute.mil environment when this direction has been developed.

1.3.11 Task Area 11 – New Capability and Enhancements. The contractor shall provide the following new functionality and enhancements to the existing AMP application. Paragraph numbers below are consistent with those found in the basic Indefinite Delivery (ID) / Indefinite Quantity (IQ) contract, HTC711-10-D-S002, but may not sequentially follow each other due to changes in functional priority. The paragraph numbering for those enhancements that do not appear in the basic contract sequentially follow the paragraph numbers for enhancements listed in Task Order 0005 of this contract.

Deliverables: Updates to Software Requirement Specification, Version Description Document (VDD), Software Test Plan, Software Test Cases, Software Test Reports, Software Releases, User Training Manual, Software Source Code, Site Survey Software and Tool Concept Document

(FY12 Optional Task) Deliverables: Updates to Software Requirement Specification, VDD, Software Test Plan, Software Test Cases, Software Test Reports, Software Releases, Updates to User Training Manual, User Manual, Site Survey Tool Operational Platform Recommendation, Airport Site Survey Tool, Software Source Code

(FY13 Optional Task) Deliverables: Updates to Software Requirement Specification, VDD, Software Test Plan, Software Test Cases, Software Test Reports, Software Releases, Updates to User Training Manual, User Manual, Site Survey Tool (with ability to select either Airport or Seaport Data Set), Software Source Code

1.3.11.66 AMP-PAT Model Development and Enhancements. The contractor shall provide software development, functionality upgrades, testing and enhancements for the AMP-PAT Airport Analysis Tools by designing, implementing, testing and documenting an Operational Prototype suite of models within AMP to support Nodal Management requirements. Software development shall be consistent with open standards architectures.

1.3.11.66.1 Aircraft De-icing and Hot Weather Operations. The Contractor shall develop AMP-PAT capability to simulate hot and cold adverse weather environments. This shall include modeling extreme hot and cold weather operations, where there will be a user settable equipment and manpower operational degradation factor which will be reflected in the personnel and vehicle simulation modeling. In addition, with cold weather operations, the model shall reflect de-icing fluid storage and resupply as well as the capability to vary times between de-icing aircraft should the aircraft require additional de-icing services prior to takeoff. This time period between de-icings shall be a user settable time period.

1.3.11.66.2 AMP-PAT Airport Models User Documentation

1.3.11.66.2.1 Training Manual. The contractor shall develop a Training Manual for the three AMP-PAT airport models. This manual shall explain the required user inputs, output files, reports and graphics. This training manual is intended primarily to support new user training of non-analysts at the airport level to support daily operations and planning.

1.3.11.66.2.2 Updates to Training Manual. The contractor shall update the Training Manual for new functionality delivered to satisfy requirements stipulated in Paragraphs 1.3.11.66.4.2, 1.3.11.66.8.2, 1.3.11.66.9, 1.3.11.66.10, and 1.3.11.66.11.

1.3.11.66.2.3 (FY13 Optional Task) Updates to Training Manual. The contractor shall update the Training Manual for new functionality delivered to satisfy requirements stipulated in Paragraph 1.3.11.66.8.3.

1.3.11.66.2.4 User Manual. The contractor shall develop a User Manual for the three AMP-PAT airport models. This manual shall be created in sufficient detail for all users to obtain guidance and reference material to set up and operate the models. The manual shall fully explain the required user inputs, output files, reports and graphics information, and explain the modeling process with supporting screen shots. The manual shall include an explanation of how the simulation abstraction differs from the existing real world airport processes. This manual is intended for full reference and use by all airport level users to support daily operations modeling and planning.

1.3.11.66.2.5 (FY13 Optional Task) Updates to User Manual. The contractor shall update the User Manual for new functionality delivered to satisfy requirements stipulated in Paragraph 1.3.11.66.8.3.

1.3.11.66.3 Contingency/Channel Mission Servicing. The contractor shall develop the capability in the AST and ATT to support various mission types that on/offload or transit an airport. Aircraft landing at an airport vary as to the type of mission and have different servicing requirements. Types of missions requiring servicing include aircraft that remain over night, arrive for onload and offload of cargo and passengers and en route missions requiring fuel and/or crews as necessary. The contractor shall ensure the model understands what type of mission the aircraft is scheduled on and provides the appropriate type of servicing for the mission/aircraft combination. Mission codes shall be obtained from Command and Control systems and/or be a manual input to the model setup. Ground times for each type of mission will become an input to the simulation.

1.3.11.66.4 Enhance Personnel Representation in the AST. The contractor shall enhance the personnel representation within the AST to simulate a higher level of detail for transporter and aircraft maintenance servicing requirements. The AST simulation shall distinguish between personnel qualifications when performing maintenance and cargo/passenger operations.

1.3.11.66.4.1 Enhance Maintenance Personnel Representation in the AST. The contractor shall enhance the model's maintenance personnel functionality by allowing the user to assign Air Force Specialty Codes and Skill Levels to specific maintenance tasks. For example, not all maintenance personnel can sign the AF 781 Forms releasing the aircraft for flight.

1.3.11.66.4.2 Enhance Transporter Personnel Representation in the AST. The contractor shall enhance the model's aerial port personnel functionality by allowing the user to assign Air Force Specialty Codes and Skill Levels to specific transporter tasks. For example, MHE operation requires qualified operators with special skills that not all transporters possess.

1.3.11.66.5 Develop the Ability to Use Logistics Composite Model (LCOM) Maintenance and Aerial Port Manpower Standards in the AST and ATT. The contractor shall provide functionality to insert into the AST LCOM manpower standards. This includes defining transporter and maintenance tasks and the skill levels and time required to accomplish the tasks. For the maintenance (aircraft repairs) a stochastic process for identifying the type of maintenance problem and the mean time for repair is required. Maintenance performed by less skilled personnel on the average should take a longer time to complete. LCOM data for this task will be provided by the Government.

1.3.11.66.6 Develop the Ability to Model Aircraft Repair Parts Availability. The contractor shall develop the model's maintenance functionality to account for, in the maintenance repair functionality, the time required to requisition and receive the aircraft repair parts along with the time required to install the parts (See Paragraph 1.3.11.66.5). This will be done on an aggregated level and not by individual parts and stock numbers. A distribution of time to obtain the repair parts will be used in addition to the time required to make the repair. Data for this distribution will be Government Furnished Information. The contractor shall determine the percentage of the requisition time that will be done in parallel with the total repair time. That is to say the total repair time may not be the sum of the part requisition time and repair time.

1.3.11.66.7 Enhancement to the Airport Throughput Tool (ATT). The contractor shall enhance the ATT to support real world operations.

1.3.11.66.7.1 Ground Time Enhancement. In the ATT "Ground Time" data field in the Graphical User Interface, the contractor shall add a new Ground Time in the pick list that accounts for the aircraft to Remain Overnight (RON) at an airport.

1.3.11.66.7.2 Enhance the Personnel Representation in the ATT. The contractor shall enhance the functionality in the ATT's "Recommended Enabler Plus-Up" tab to account for and report the various Skill Levels required to support the Unit Type Code identified by the ATT recommendations. The Government will provide the data necessary for the contractor to complete this task from LCOM and the results of an Aerial Port Manpower Study.

1.3.11.66.7.3 De-icing in the ATT. The contractor shall provide a 'check-box' in the ATT to identify to the model that the airport is operating under icing conditions. Further, when the 'check-box' is marked the model shall increase the ground time of the aircraft to account for de-icing operations.

1.3.11.66.8 Site Survey Software and Tool Development.

1.3.11.66.8.1 Top Level Concept Document. The contractor shall develop a top level concept document that describes the proposed concept for operation of a site survey tool to assist site survey teams in completing air and sea distribution port surveys. The objective of this task is to reduce survey team documentation burdens and reduce the analyst model setup time. This concept document shall describe how the tool is intended to be used, how Geospatial Information System (GIS) data will be captured, and shall contain diagrams of proposed computer screens and graphics that depict the displays that the operator will use to enter data needed to populate the AMP-PAT air and sea tools. The concept document also shall recommend, for prototyping purposes, a hardware suite that would be light-weight, portable, capable of running the AMP-PAT tools and model, accept detailed GIS data, provide a user friendly interface for site survey data capture, and capable of uploading site survey data files over the internet or government network. The device also shall be capable of taking still photographs or video, or accepting same from an external source. The recommendation shall present the options considered and the rationale for selecting the recommended platform. The contractor shall procure the prototype hardware platform following Government approval.

1.3.11.66.8.2 Airport Site Survey Tool Design and Development. The contractor shall design software to assist airport site survey teams in gathering, checking, correcting, and inputting detailed airport and Geospatial Information System data into the AMP-PAT tools. The developer shall include in the tool all elements of airport data contained in Appendix A (current AMP-PAT airport data), as well as any additional airport data elements resulting from the development of other AMP-PAT airport tool capabilities included in this PWS. This AMP-PAT data includes data about aircraft, airport facilities (e.g., parking ramps, cargo/passenger processing, handling or storage capabilities, aircraft fueling systems), and support personnel and equipment. This software shall be designed to operate initially on the hardware suite recommended during the concept phase of this task. The software shall accept and store user data input and perform appropriate data validation of user inputs for port characteristics data.

The contractor shall recommend an operational hardware platform that will run both AMP-PAT and the site survey software. This recommendation shall present the options considered and the rationale for selecting the recommended operational platform.

The contractor shall develop the software, integrate the software with the Government-approved operational hardware, test, and document an Airport Site Survey Tool. Following development of the airport site survey tool, the contractor shall demonstrate its capability and operation to the Government at Scott AFB and at two potential combatant command users of the tool (refer to Paragraph 1.3.11.66.11).

Testing of the software developed for the Airport Site Survey Tool shall comply with the software testing processes described in the basic contract. The contractor shall plan to develop the software so that the software will be delivered for User Acceptance Testing no later than the mutually agreed upon date for Operational Readiness Review.

1.3.11.66.8.3 (FY13 Optional Task) Seaport Site Survey Tool Design and Development. The contractor shall design software to assist seaport site survey teams in gathering, checking, correcting, and inputting detailed seaport and Geospatial Information System data into the AMP-PAT tools. The developer shall include in the tool all elements of seaport data contained in Appendix B (current AMP-PAT seaport data). This AMP-PAT data includes data about ships, seaport facilities (anchorage, berths, aprons, cargo/passenger processing, handling or storage capabilities, fueling systems), highways and gates, seaport rail access, port locomotives, terminal rail yards and spurs, terminal railcar types, capabilities, and loading, and support personnel and equipment. This software shall be designed to operate initially on the hardware suite recommended during the concept phase of this task. The software shall accept and store user data input and perform appropriate data validation of user inputs for port characteristics data.

The contractor shall develop the software, integrate the software with the Government-approved operational hardware, test, and document a Seaport Site Survey Tool. Following tool development, the contractor shall demonstrate its capability and operation to the Government at Scott AFB. The Seaport Site Survey software and the Airport Site Survey software shall reside within a single application, with the user having the ability to select either the seaport or airport data set.

Testing of the software developed for the Seaport Site Survey Tool shall comply with the software testing processes described in the basic contract. The contractor shall plan to develop the software so that the software will be delivered for User Acceptance Testing no later than the mutually agreed upon date for Operational Readiness Review.

1.3.11.66.9 Model Operation Using Operational (C2 System) Data. The contractor shall provide the ability to import manually current aircraft schedules and cargo/passenger manifest data from Command and Control systems into the AST model.

1.3.11.66.10 Enhancement of the Airport Rapid Analysis Tool (ARAT). The contractor shall develop the ability to insert into the ARAT a notional airflow to support the determination of enabler feasibility (what personnel, equipment, supplies, etc., are required) for a given TPFDD at a given airport.

1.3.11.66.11 Operational Demonstration and Assessment Support. The contractor shall attend and support one Technical Demonstration and two Operational Assessments in support of this Task Order. The contractor shall determine the level of support required to train users and provide software support at the demonstrations and assessments. The Technical Demonstration will occur at USTRANSCOM at Scott AFB, IL. The Operational Assessments will occur at HQ Pacific Air Forces, Hickam AFB, Hawaii; and HQ United States Air Forces in Europe, Ramstein AB, Germany. Each assessment will be from 3-4 days in duration exclusive of travel. The contractor shall deliver a report that includes the results of the demonstration or assessment and the contractor's observations.

1.4 Deliverables. The contractor shall deliver data and software (with applicable data rights) as set forth in the table below. IAW DFARS 252.227-7013 and DFARS 252.227-7014, the Government obtains under this contract "unlimited rights" to all non-commercial computer software, software source code, computer software documentation, enhancements, technical data, and similar non-commercial data developed exclusively at Government expense and delivered to the Government under this contract. "Unlimited rights" means rights to use, modify, reproduce, release, perform, display or disclose in whole or in part, in any manner and for any purpose whatsoever, and to have the ability to authorize others to do so. The contractor agrees that regardless of how contractor provided data/software is developed or modified during contract performance, the contractor will deliver data/software marked IAW requirements in DFARS 252.227-7013, 252.277-7014, or other applicable reference.

For all other non-commercial data delivered under this contract, the Government has the right to use, modify, reproduce, release, display or disclose, in whole or in part, in any manner and for any purpose whatsoever, and to have or authorize others to do so.

The contractor shall provide all deliverables, except software version releases, via e-mail to the PMO Configuration Management Office at this address: ustcj6-p-cm@ustranscom.mil. The contractor shall post software version releases to the USTRANSCOM-provided Joint Deployment Planning and Analysis Center webshare. The document deliverables shall be prepared using a Government-supported version of Microsoft Office (includes Access) or Microsoft Project software, with the exception of source code and executables, which the contractor shall provide in native code language. The contractor shall upload files directly into the webshare.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. "Format", as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date	Data Rights
1.3.11.66 sub-paragraphs	Software Requirement Specification (SRS)	Contractor-Determined Format	NLT 85 business days before scheduled initial delivery of software at ORR	NLT 10 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Updates to SRS	Contractor-Determined Format	NLT 85 business days before scheduled initial delivery of software at ORR	NLT 10 business days after receipt of Government comments	Unlimited
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Updates to SRS	Contractor-Determined Format	NLT 85 business days before scheduled initial delivery of software at ORR	NLT 10 business days after receipt of Government comments	Unlimited
1.3.11.66 sub-paragraphs	Version Description Document	Government-Determined Format	NLT 70 business days before scheduled initial delivery of software at ORR	NLT 10 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Version Description Document	Government-Determined Format	NLT 70 business days before scheduled initial delivery of software at ORR	NLT 10 business days after receipt of Government comments	Unlimited
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Version Description Document	Government-Determined Format	NLT 70 business days before scheduled initial delivery of software at ORR	NLT 10 business days after receipt of Government comments	Unlimited

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date	Data Rights
1.3.11.66 sub-paragraphs	Software Test Plan	Contractor - Determined Format	NLT 15 business days before scheduled Test Readiness Review (TRR)	NLT 7 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Plan	Contractor - Determined Format	NLT 15 business days before scheduled Test Readiness Review (TRR)	NLT 7 business days after receipt of Government comments	Unlimited
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Plan	Contractor - Determined Format	NLT 15 business days before scheduled Test Readiness Review (TRR)	NLT 7 business days after receipt of Government comments	Unlimited
1.3.11.66 sub-paragraphs	Software Test Cases	Contractor - Determined Format	NLT 15 business days before TRR	NLT 7 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Cases	Contractor - Determined Format	NLT 15 business days before TRR	NLT 7 business days after receipt of Government comments	Unlimited
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Cases	Contractor - Determined Format	NLT 15 business days before TRR	NLT 7 business days after receipt of Government comments	Unlimited
1.3.11.66 sub-paragraphs	Software Test Reports	Contractor - Determined Format	N/A	Not later than five business days following completion of system test	N/A
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Reports	Contractor - Determined Format	N/A	Not later than five business days following completion of system test	N/A
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Software Test Reports	Contractor - Determined Format	N/A	Not later than five business days following completion of system test	N/A

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date	Data Rights
1.3.11.66.1, 1.3.11.66.3, 1.3.11.66.4-4.1, 1.3.11.66.5, 1.3.11.66.6, 1.3.11.66.7-7.3	Software Release (one for Paragraphs noted)	Contractor-Determined Format	Initial delivery by scheduled Operational Readiness Review (ORR)	Final delivery at scheduled Production Readiness Review (PRR; to be scheduled NLT one year after date of contract award)	Unlimited
(FY12 Optional Task) 1.3.11.66.4.2, 1.3.11.66.9-66.10	Software Release (one for Paragraphs noted)	Contractor-Determined Format	Initial delivery by scheduled Operational Readiness Review (ORR)	Final delivery at scheduled PRR; to be scheduled NLT one year after date of contract award	Unlimited
(FY12 Optional Task) 1.3.11.66.8.2	Software Release (one for Paragraphs noted)	Contractor-Determined Format	Initial delivery by scheduled Operational Readiness Review (ORR)	Final delivery at scheduled PRR; to be scheduled NLT one year after date of contract award	Unlimited
(FY13 Optional Task) 1.3.11.66.8.3	Software Release (one for Paragraphs noted)	Contractor-Determined Format	Initial delivery by scheduled Operational Readiness Review (ORR)	Final delivery at scheduled PRR; to be scheduled NLT one year after date of contract award	Unlimited
1.3.11.66.2.1	User Training Manual	Contractor-Determined Format	Draft due 15 business days prior to ORR	7 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66.2.2	Updates to User Training Manual	Contractor-Determined Format	Draft updates due 15 business days prior to ORR	7 business days after receipt of Government comments	Unlimited
(FY13 Optional Task) 1.3.11.66.2.3	Updates to User Training Manual	Contractor-Determined Format	Draft updates due 15 business days prior to ORR	7 business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66.2.4	User Manual	Contractor-Determined Format	Draft due 15 business days prior to ORR	7 business days after receipt of Government comments	Unlimited
(FY13 Optional Task) 1.3.11.66.2.5	Updates to User Manual	Contractor-Determined Format	Draft due 15 business days prior to ORR	7 business days after receipt of Government comments	Unlimited

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date	Data Rights
1.3.11.66 sub-paragraphs	Software Source Code	Contractor-Determined in Native Format	N/A	By Scheduled ORR and PRR	Unlimited
(FY12 Optional Task) 1.3.11.66 sub-paragraphs	Software Source Code	Contractor-Determined in Native Format	N/A	By Scheduled ORR and PRR	Unlimited
(FY13 Optional Task) 1.3.11.66 sub-paragraphs	Software Source Code	Contractor-Determined in Native Format	N/A	By Scheduled ORR and PRR	Unlimited
1.3.11.66.8.1	Site Survey Software and Tool Top Level Concept Document and Prototype Hardware Recommendation	Contractor-Determined Format	NLT 60 calendar days after date of contract award	Ten business days after receipt of Government comments	Unlimited
(FY12 Optional Task) 1.3.11.66.8.2	Site Survey Tool Operational Platform Recommendation	Contractor-Determined Format	N/A	NLT 31 Aug 2012	Unlimited
(FY12 Optional Task) 1.3.11.66.8.2	Airport Site Survey Tool	Contractor-Determined Format	Initial Delivery by Scheduled ORR	Operational – NLT 30 Nov 2012	Unlimited
(FY13 Optional Task) 1.3.11.66.8.3	Site Survey Tool (with ability to select either Airport or Seaport Data Set)	Contractor-Determined Format	Initial Delivery by Scheduled ORR	Operational – NLT 30 Aug 2013	Unlimited
(FY12 Optional Task) 1.3.11.66.11	Operational Demonstration and Assessment Report (one per theater)	Contractor-Determined Format	N/A	NLT 10 business days following completion of demonstration	N/A

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
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Documents 100% complete, all delivered on time, all issues addressed. One set of government comments required, with no critical and two or fewer substantive comments per document. (A “set” is defined as one instantiation of Government comments on a draft deliverable.) Software: delivered on time at scheduled ORR, with no Priority 1 problem reports, two or fewer Priority 2 problem reports, four or fewer Priority 3 or below problem reports. All Priority 2 problem reports resolved and production software delivered on time at PRR, according to contractor- and Government-agreed schedule.	1.3.11.66 sub-paragraphs	Documents: No more than one (1) late delivery of draft and no more than five (5) days late. Documents should contain no more than one critical or more than four substantive comments per document. No more than two (2) sets of revisions/corrections with all revisions/corrections accomplished or incorporated by due date. (A second “set” may be necessary should Government comments be required on the second draft (or “final”) delivery in response to the first set of Government comments.) Software: delivered by scheduled ORR date (according to contractor- and Government-agreed schedule), with no more than two Priority 1 problem reports, four or fewer Priority 2 problem reports, six or fewer Priority 3 or below problem reports. All Priority 1 and 2 and 50% or more of the Priority 3 problem reports submitted during UAT resolved and operational software delivered by scheduled PRR, according to contractor- and Government-agreed schedule.
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2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY, SERVICES, AND INFORMATION

3.1 Government-Furnished Equipment (GFE). All provisions of the Contract HTC711-10-D-S002 apply.

3.1.1 (FY12 Option) Hardware Platforms for Site Survey Tool. The contractor shall purchase the hardware platforms for the Site Survey Tool based on Government approval of the platform the contractor has recommended. The contractor shall use Other Direct Cost funding to procure these platforms.

3.2 Facilities. No facilities specified.

3.3 Government-Furnished Information (GFI). GFI for this task order is described in Table 3.3-1 below.

Table 3.3-1. Government-Furnished Information

Paragraph Reference	Item
1.3.11.66.4.1	List of Air Force Specialty Codes and Skill Levels (JDPAC to provide within 30 days of contract award)
1.3.11.66.5, 1.3.11.66.7.2	LCOM Data (JDPAC to provide within 30 days of contract award)
1.3.11.66.5, 1.3.11.66.7.2	Aerial Port Manpower Study Data (JDPAC to provide within 30 days of contract award)
1.3.11.66.6	Data for Distribution of Time to Obtain Repair Parts (JDPAC to provide within 30 days of contract award)

4.0 GENERAL INFORMATION.

4.1 – 4.3 All provisions of the Contract HTC711-10-D-S002 apply.

4.4 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB. Testing activities shall be conducted at a contractor facility not located within the confines of Scott AFB, and at Scott AFB (within the JDPAC.) Demonstrations shall be performed at Scott AFB, Hickam AFB HI, and Ramstein AB GE.

4.5 Travel. Contractor personnel may be required to travel within the U.S. and overseas to perform tasks required in this PWS. The Government shall reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). The contractor PM shall approve and forward travel requests to the COR for Government validation prior to the contractor incurring any travel expense. Travel requests shall be submitted to the COR a minimum of five (5) workdays in advance of travel commencement date. Travel requests shall be in writing and contain the dates, locations, and estimated costs for the travel. Invoices (along with associated receipts) shall support all travel reimbursement requests. The Government shall not reimburse local travel and related expenses to the contractor for daily travel to or from the place of performance. Contractors shall not use General Services Administration city pair contracts. The contractor shall not exceed the estimated travel amount stated in this task order. Estimated travel to support this Task Order is described in Table 4.5-1 below.

Table 4.5-1. Estimated Travel

Location	# Trips	# Days	# People
(FY11; All trips to be completed before 9 Sep 2013) Scott AFB, IL Task 1.3.11.66	5	3	2
(FY12 Optional Task) Hickam AFB, Hawaii Task 1.3.11.66	1	3-4	2
(FY12 Optional Task) Ramstein AB, Germany Task 1.3.11.66	1	3-4	2

4.6 Other Direct Costs. The Government will reimburse allowable other direct costs (ODCs) incurred in the performance of this task order. ODCs may include, but are not limited to, hardware, software, group teleconferencing fees, and membership/conference fees. The primary or alternate COR will approve all ODCs prior to the incurring of any expenses. The contractor shall submit ODC requests in writing to the COR at least five (5) business days in advance of incurring any expenses. The request shall contain estimated costs. The contractor may be required to submit at least two quotes for high dollar value items. Contractor invoices (along with associated receipts) shall support all ODC reimbursement requests. Note: General and Administrative overhead charges will not be accepted or paid for approved ODC purchases.

4.7 Period of Performance. This PWS encompasses three periods of performance: One for those tasks not marked as “Optional”, and two for tasks marked “Optional.”

4.8 – 5.19 All provisions of the Contract HTC711-10-D-S002 apply.

Appendix A

Airport Site Survey Questionnaire



AMP-PAT
Questionnaire-23May

Appendices B and C**Seaport Site Survey Questionnaires**Port Questionnaire
(Blank).docPort Questionnaire
(Hwy and Rail Addend

The following have been deleted:

PWS

SECTION E - INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for SUBCLIN 100101:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

The following Acceptance/Inspection Schedule was added for SUBCLIN 100201:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

The following Acceptance/Inspection Schedule was added for SUBCLIN 100301:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
Destination	Government	Destination	Government

SECTION F - DELIVERIES OR PERFORMANCE

The following Delivery Schedule item for CLIN 1001 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
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POP 12-MAR-2012 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
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The following Delivery Schedule item for CLIN 1002 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 12-MAR-2012 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

The following Delivery Schedule item for CLIN 1003 has been changed from:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

To:

DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
POP 12-MAR-2012 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95

SECTION G - CONTRACT ADMINISTRATION DATA

Accounting and Appropriation

Summary for the Payment Office

As a result of this modification, the total funded amount for this document was increased by \$1,056,467.96 from \$539,462.65 to \$1,595,930.61.

SUBCLIN 100101:

Funding on SUBCLIN 100101 is initiated as follows:

ACRN: AB

CIN: 00000000000000078467

Acctng Data: 9720400.5109 8K2 70AB 30603763713S G5050G 588DG 63713S 387700 F87700

Increase: \$1,034,540.16

Total: \$1,034,540.16

SUBCLIN 100201:

Funding on SUBCLIN 100201 is initiated as follows:

ACRN: AB

CIN: 00000000000000078468

Acctng Data: 9720400.5109 8K2 70AB 30603763713S G5050G 588DG 63713S 387700 F87700

Increase: \$13,427.80

Total: \$13,427.80

SUBCLIN 100301:

Funding on SUBCLIN 100301 is initiated as follows:

ACRN: AB

CIN: 00000000000000078469

Acctng Data: 9720400.5109 8K2 70AB 30603763713S G5050G 588DG 63713S 387700 F87700

Increase: \$8,500.00

Total: \$8,500.00

(End of Summary of Changes)

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF 40

1. CONTRACT/PURCH ORDER/ AGREEMENT NO HTC711-10-D-S002		2. DELIVERY ORDER/ CALL NO 0007		3. DATE OF ORDER/ CALL (YYYYMMDD) 2011 Oct 01		4. REQ / PURCH REQUEST NO F3ST951234A001		5. PRIORITY					
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357				7. ADMINISTERED BY (if other than 6) SEE ITEM 6		8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)							
9. CONTRACTOR RAYTHEON BBN TECHNOLOGIES CORP EILEEN NAYLOR AND 10 MOULTON ST ADDRESS CAMBRIDGE MA 02138-1119				FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED					
14. SHIP TO USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST, BLDG 4038 SCOTT AFB IL 62225-5357				15. PAYMENT WILL BE MADE BY DFAS-LIMESTONE DEAMS - F87700 ACCTG DISB STA NR 387700 DFAS DEAMS 27 ARKANSAS RD LIMESTONE ME 04751-6216		13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15							
16. TYPE OF ORDER		DELIVERY/ CALL		X		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract							
		PURCHASE				Reference your quote dated Furnish the following on terms specified herein REF P11385-BBN							
ACCEPTANCE, THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.													
NAME OF CONTRACTOR				SIGNATURE		TYPED NAME AND TITLE		DATE SIGNED (YYYYMMDD)					
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:													
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule													
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES				20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT		22. UNIT PRICE		23. AMOUNT	
		SEE SCHEDULE											
* If quantity accepted by the Government is same as quantity ordered indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle				24. UNITED STATES OF AMERICA TEL: 618-226-7061 EMAIL: Lisa.Gross@ustrancom.mil BY: LISA A. GROSS				<i>Lisa A. Gross</i> CONTRACTING / ORDERING OFFICER		25. TOTAL \$2,902,237.20		26. DIFFERENCES	
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED													
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE						e. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE						28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS			
f. TELEPHONE NUMBER		g. E-MAIL ADDRESS				<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR			
36. I certify this account is correct and proper for payment.						31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL				34. CHECK NUMBER			
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER								35. BILL OF LADING NO.			
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.		42. S/R VOUCHER NO.			

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Labor (Operating) LH CLIN 0001 – Labor (Operating) PWS Specific Tasks: 1.3.1, 1.3.1.1, 1.3.1.2, 1.3.1.3, 1.3.1.4, 1.3.1.7, 1.3.1.8, 1.3.2., 1.3.3., 1.3.4, 1.3.6, 1.3.7, 1.3.9.1, 1.3.9.2, 1.3.9.3, 1.3.9.4, 1.3.9.5, 1.3.9.6, 1.3.9.7, 1.3.9.8, 1.3.10.1, 1.3.10.2, 1.3.10.3, 1.3.10.5, 1.3.10.6, 1.3.10.7, FOB: Destination SIGNAL CODE: A	986,612.26	Lot	\$1.00	\$986,612.26 NTE
TOT ESTIMATED PRICE					\$986,612.26 NTE
CEILING PRICE					\$0.00
000101	Funding for CLIN 0001 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST951234A001 SIGNAL CODE: A		Lot		
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00
ACRN AA CIN: 000000000000000060500					\$986,612.26

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Labor (Capital) LH CLIN 0002- Labor (Capital) - LH PWS Specific Tasks: 1.3.5.1, 1.3.5.2, 1.3.5.3, 1.3.11.68, 1.3.11.69, 1.3.11.69.1, 1.3.11.69.2, 1.3.11.69.3, 1.3.11.69.4, 1.3.11.70, , 1.3.11.72.1, 1.3.11.72.3. FOB: Destination SIGNAL CODE: A	1,511,916.64	Lot	\$1.00	\$1,511,916.64 NTE
TOT ESTIMATED PRICE					\$1,511,916.64 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
000201	Funding for CLIN 0002 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST951234A001 SIGNAL CODE: A		Lot	\$0.00	\$0.00 NTE
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00
ACRN AB CIN: 000000000000000060501					\$1,511,916.64

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	Cyber Security (Operating) LH CLIN 0003 –Cyber Security (Operating) -LH PWS Specific Tasks: 1.3.8.1.1, 1.3.8.1.1.1, 1.3.8.1.1.2, 1.3.8.1.1.3, 1.3.8.1.2, 1.3.8.1.3, 1.3.8.1.4, 1.3.8.2, 1.3.8.3.9, 1.3.8.3.10 FOB: Destination SIGNAL CODE: A	63,177.90	Lot	\$1.00	\$63,177.90 NTE
TOT ESTIMATED PRICE					\$63,177.90 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
000301	Funding for CLIN 0003 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST951234A001 SIGNAL CODE: A		Lot	\$0.00	\$0.00 NTE
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00
ACRN AA CIN: 000000000000000060502					\$63,177.90

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	Requirements Management (Optional Task) LH CLIN 0004 (Optional)- Requirements Management (Operating)- LH. PWS Specific Tasks: 1.3.3.1 and 1.3.3.3 CLIN Amount: \$84,094.56 FOB: Destination SIGNAL CODE: A				
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	Cyber Security (Optional Task) LH CLIN 0005 (Optional)- Cyber Security (Operating)- LH. PWS Specific Tasks: 1.3.8.3.1, 1.3.8.3.2, 1.3.8.3.3, 1.3.8.3.4, 1.3.8.3.5, 1.3.8.3.6. FOB: Destination SIGNAL CODE: A				
TOT ESTIMATED PRICE					\$0.00 TBN
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006	Labor (Capital) LH CLIN 0006 - Labor (Capital)- LH. PWS Specific Tasks: 1.3.11.72.2, FOB: Destination SIGNAL CODE: A	303,656.60	Lot	\$1.00	\$303,656.60 NTE
TOT ESTIMATED PRICE					\$303,656.60 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
000601	Funding for CLIN 0006 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST951234A001 SIGNAL CODE: A		Lot	\$0.00	\$0.00 NTE
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00
ACRN AB CIN: 00000000000000060503					\$303,656.60

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007	Travel - Cost COST Travel, in accordance with the Federal Travel Regulations. FOB: Destination SIGNAL CODE: A		Lot		\$26,873.80
ESTIMATED COST					\$26,873.80

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000701			Lot		\$0.00

Funding for CLIN 0007

COST

FOB: Destination

PURCHASE REQUEST NUMBER: F3ST951234A001

SIGNAL CODE: A

ESTIMATED COST

\$0.00

ACRN AA

\$26,873.80

CIN: F3ST951234A0010005

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008			Lot		\$10,000.00

ODC - Cost

COST

FOB: Destination

SIGNAL CODE: A

ESTIMATED COST

\$10,000.00

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000801			Lot		\$0.00

Funding for CLIN 0008

COST

FOB: Destination

PURCHASE REQUEST NUMBER: F3ST951234A001

SIGNAL CODE: A

ESTIMATED COST

\$0.00

ACRN AA

\$10,000.00

CIN: F3ST951234A0010006

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009	Labor (Optional Task) LH CLIN 0009 (Optional) - Labor (Capital)- LH. PWS Specific Tasks: 1.3.11.72.4 CLIN Amount: \$184,608.20 FOB: Destination SIGNAL CODE: A		Lot		
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0010	Labor (Optional Task) LH CLIN 0010 (Optional) – Labor (Capital)- LH. PWS Specific Tasks: 1.3.11.71 CLIN Amount: \$270,258.40 FOB: Destination SIGNAL CODE: A		Lot		
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011	Labor (Optional Task) LH CLIN 0011 (Optional) – Labor (Operating) – LH PWS Specific Tasks: 1.3.10.4 and 1.3.10.8 CLIN Amount: \$124,536.24 FOB: Destination SIGNAL CODE: A				
				TOT ESTIMATED PRICE	\$0.00 NTE
				CEILING PRICE	\$0.00

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT**PERFORMANCE WORK STATEMENT****FOR****TASK ORDER (TO) 0007****ANALYSIS OF MOBILITY PLATFORM (AMP)****19 August 2011****1.0 DESCRIPTION OF SERVICES**

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses.

1.2 Scope. This Performance Work Statement (PWS) contains requirements in support of AMP development for FY12 in the following areas: AMP hardening and air refueling. In addition, this PWS contains requirements for sustainment of the AMP Federation of models throughout FY12. Contract HTC711-10-D-S002 is incorporated by reference.

1.3 Specific Tasks. The specific task areas with associated subtasks to be performed are identified as: Contract Management, Studies Support, Requirements Management, Maintenance, Design and Development, Application Administration, AMP Federation Model User Training, Security Engineering and Cyber Security Requirements, Configuration Management, Enhancements, and New Development.

1.3.1 Task Area 1 – Contract Management. This task area shall encompass overall contract management to include administrative, clerical, documentation, and related functions during the period of performance of this task order. The contractor shall designate an individual from the contractor's resources to be the focal point for all contract management communications with USTRANSCOM, and to be responsible for ensuring successful accomplishment of PWS tasks. Point of contact (POC) information for the Contract Manager and alternate(s), who shall act for the contractor when the Contract Manager is absent, to include name, title, phone number, and e-mail address, shall be provided to the Contracting Officer at the Post-Award Conference.

The contractor shall ensure all personnel assigned to this contract meet the minimum requirements specified in the contractor's proposal, IAW the generic resumes provided as part of the contractor's staffing approach. The contractor shall notify the CO in writing of changes to personnel within three (3) business days after information is known.

1.3.1.1 Task Area 1 Subtask 1 - Task Order Management Plan (TOMP). The contractor shall prepare a TOMP that describes tasks, dependencies, management and technical approach, organizational resources, and management controls to be employed to meet cost, performance and schedule requirements throughout contract execution for all task orders issued during the period of performance of this task order. The TOMP shall include the contractor's approach to plan for, identify, monitor, and control risk in all phases of this effort. The TOMP also shall include a Work Breakdown Structure (WBS) that defines resources and dependencies. In addition, the TOMP shall include a description of the contractor's requirements management process. The contractor shall update the TOMP after receipt of each subsequent task order received during the period of performance of this task order.

Deliverable: TOMP

1.3.1.2 Task Area 1 Subtask 2 - Monthly Status Reports (MSR). The contractor shall submit an MSR summarizing overall status, progress, and recommendations and shall include details and results of the work performed during the reporting period, identifying any issues, problem areas, and items that require Government action; work planned for the next month; change request and problem report evaluations, as necessary; dates and locations of IPRs conducted; hours performed on each Contract Line Item Number (CLIN) by labor category; actual

and projected expenditures; meetings attended, with a summary of relevant items discussed; cost, schedule and/or performance variance that includes a description of how the variances were determined; risk assessment and mitigation recommendations; open issues; a list of deliverables provided; and key personnel (e.g., project manager, lead developer, lead engineer) changes. Estimated and actual travel costs shall be reported, together with contractor name, trip location and purpose, and dates of travel. The MSR shall include copies of invoices for all travel performed during the reporting period.

Deliverable: MSR

1.3.1.3 Task Area 1 Subtask 3 - In-Process Reviews (IPRs). The contractor shall conduct and/or host IPRs on a twice-yearly basis or as the program manager (PM) requires. The PM will determine dates and whether IPRs will be held at the contractor's site, at USTRANSCOM, via video teleconference, web-cast, or conference call. IPRs shall summarize status, progress, new capability requirements and program schedule to include new requirements, risk identification, and proposed remediation plan in any task area. The contractor shall prepare presentation materials and provide them to the PM in accordance with the schedule in the deliverable table in Paragraph 1.4. Following the IPR, and in accordance with the schedule in the deliverable table in Paragraph 1.4, the contractor shall submit minutes of the IPR to include date, IPR location, a list of attendees, a record of activity; decisions made; and an action items list that includes a description of the action item (AI), the primary person or organization responsible for accomplishing the AI, and an estimated completion date.

Deliverables: Presentation Materials, IPR Meeting Minutes

1.3.1.4 Task Area 1 Subtask 4 - Integrated Management Schedule (IMS). The contractor shall develop and deliver to the PM an IMS in Microsoft Project format that provides a schedule for all major milestones as currently tasked to the contractor. It shall also include anticipated future work to support schedule and workload de-confliction. The IMS shall include a high-level Master Schedule which lists the major milestones and completion dates associated with each. The IMS shall also include sub-tasks necessary to achieve the milestone and scheduled completion dates for each sub-task. The IMS delivered to the government shall address development, test, and deployment for software releases containing approved new system capabilities, and shall show the critical path. The contractor shall keep this schedule current, making schedule changes as necessary after coordinating these changes with the PM. The IMS shall be delivered with the MSR, or when circumstances necessitate a change to the schedule, whichever occurs first.

Deliverable: IMS

1.3.1.5 Reserved.

1.3.1.6 Reserved.

1.3.1.7 Task Area 1 Subtask 7 - Demonstration Support. At Government request, the contractor shall perform up to five demonstrations of software releases of any type at AMP IPRs, AMP User Conferences, or other venues. The contractor shall conduct technical presentations or demonstrations to USTRANSCOM, other Department of Defense (DOD) commands, or other AMP users. The contractor shall support presentations or demonstrations at other venues when required by the PM. This support may include but is not limited to scenario and system set-up and other subject matter expert support.

1.3.1.8 Task Area 1 Subtask 8 – Teleconferences. The contractor shall participate in weekly telephone conferences with the PM to provide current status of all tasks.

1.3.2 Task Area 2 - Studies Support. The contractor shall support planning and execution of analytical studies such as the Defense Program Guidance's Mobility Capabilities and Requirements Studies and Quadrennial Defense Review. This may require software modifications, analysis of study requirements and products, and on-site support. As appropriate to the specific study, the contractor shall work with other model development contractors to define upgrades and enhancements to software of AMP and the other models, and coordinate release and testing schedules. The contractor shall make necessary modifications to AMP and

shall enhance the graphical user interfaces (GUI) and/or charts as directed by the PM. The contractor shall conduct integration and testing, and perform trouble-shooting to repair or modify software problems identified during model execution.

1.3.3 Task Area 3 - Requirements Management. The contractor shall be responsible for facilitation and administration of the AMP requirements management process. The contractor shall comply with sub-paragraphs 1.3.3.2 and 1.3.3.4 below, pending award of the options designated below.

1.3.3.1. (Option) When available, the contractor shall utilize the Government's Requirement Management Tool (RMT) to input, track, trace, and manage requirements and supporting documentation. The Government's RMTs are composed of IBM's Rational RequisitePro, ClearQuest, and ClearCase. The Government shall provide the contractor access to these tools and the contractor employees shall be familiar with use of these tools. The Government will not provide IBM Rational RequisitePro, ClearQuest, and ClearCase training to the contractor. The Government will maintain and use these tools to monitor the requirements management process.

1.3.3.2. The contractor shall follow a contractor-provided internal requirements management process and use tools that can transition to the Government's RMTs to input, track, trace, and manage requirements and supporting documentation.

1.3.3.3. (Option) The contractor shall have thirty (30) business days to transition to the Government-sponsored environment when the Government-provided tools become available. The end state will have all open and historical baselines and requirements loaded into the RMTs. The contractor shall load the current baseline and any open requirements within the first 30-business day transition period. The contractor shall have one hundred and twenty (120) business days to transition all historical baselines and requirements into the RMTs.

1.3.3.4. The contractor shall manage the activities necessary to receive, verify, analyze, refine, and confirm requirements provided by the PM. The contractor shall also manage the activities necessary to maintain the AMP requirements baseline, track requirements status, maintain requirements versions, maintain requirements attributes, control requirement quality and consistency, perform change impact analysis, and provide reports.

The contractor shall assess each requirement and provide an impact assessment that includes an analysis of level of effort, impacts to program costs and program schedule.

Deliverable: Requirement Impact Assessment

1.3.4 Task Area 4– AMP Software Maintenance (includes AMP-PAT). The contractor shall correct problems that AMP users encounter with the software, and shall conduct unit, integration, and regression testing of these fixes. The contractor shall maintain the Federation data objects and run infrastructure, and adapt to changes in the component models.

The contractor shall:

- **Facilitate and administer the AMP problem reports management process.**
- **Code, test, document, and support full integration of software and software releases.**
- **Propose release content and schedules based upon software maintenance priorities directed by the AMP Configuration Control Board (CCB).**
- **Provide software level of effort, cost, and schedule estimates, and include justification and confidence level behind the estimates.**
- **Designate a lead engineer for the software engineering and technical interactions with USTRANSCOM.**
- **Provide configuration management (CM), quality assurance (QA), and documentation for all AMP software.**

1.3.5 Task Area 5 – Design and Development. The contractor shall design, develop, and conduct unit, integration, and regression testing of new capability for the AMP application. The contractor shall continue

to design, develop, test and apply required security features. The GUI will include mechanisms for configuring and running AMP models. The GUI development shall be compliant with USTRANSCOM Enterprise Architecture (EA) standards. The design of the GUI shall be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users. The AMP infrastructure shall be extensible to meet future USTRANSCOM needs. The AMP infrastructure shall be compliant with USTRANSCOM EA standards. The contractor shall maintain and expand the Federation application programming interface (API) and the data model.

The contractor shall develop and test new functional capabilities of the application and fixes to problems with the application. The contractor shall:

- Design, code, test, document, and support full integration of software and software releases, assessments and prototypes supporting application development.
- Propose release content and schedules based upon Government requirements and priorities directed by the AMP CCB.
- Provide necessary models and simulations to support the verification, validation, and authentication (VV&A) process.
- Provide software size, cost, and schedule estimates, and include justification and confidence level behind the estimates.

1.3.5.1 Task Area 5 Subtask 1 – Software Development. In addition to the requirements of Task 1.3.5, the contractor shall provide CM, QA, and documentation for all AMP software. The contractor shall ensure that the AMP software is developed to be compatible with the current and any projected USTRANSCOM software configurations (e.g., United States Air Force (USAF) Standard Desktop Configuration (SDC), network, security, Internet browser). The Government will furnish the contractor with the approved USTRANSCOM software configurations. The contractor shall provide a Software Requirements Specification (SRS) that describes the user's functional requirements in detail and in a form that will support design and development of software to satisfy these requirements. USTRANSCOM PMO will review and approve the SRS prior to contractor implementation.

Deliverables: Software Requirements Specification

1.3.5.2 Task Area 5 Subtask 2 – Software Testing. For each scheduled release, the contractor shall support Government participation in test events that include Government Witness Testing (GWT) and User Acceptance Testing (UAT) of the software to ensure it is validated and verified against the provided requirements and/or problem reports. The purpose of GWT is to observe contractor testing of the software planned for use during UAT. The contractor shall identify and track deficiencies discovered during UAT, but shall not issue a new version of software for continuation of UAT without PM approval. In accordance with PM and FM prioritization and PM direction, the contractor shall resolve these deficiencies and present another software version for either GWT or UAT.

1.3.5.2.1. The contractor shall prepare a Software Test Plan that describes the developer's test methodology and traces requirements from contractual and/or requirements documentation through to test cases. The contractor shall create test cases that shall provide detailed test instructions, any pre-conditions or inputs, and expected results for each requirement. This plan also shall address the contractor's plan to conduct regression testing on changes made to COTS components and application software components. In addition, the contractor shall provide documentation that records the status and results of the contractor's test efforts. The Software Test Plan, Test Cases, and Test Reports shall be delivered in accordance with the deliverable table in Paragraph 1.4. The contractor shall conduct a Test Readiness Review (TRR) before GWT commences and an Operational Readiness Review (ORR) before UAT commences. The goals of these reviews are to confirm the readiness of the application and test infrastructure (e.g., test environment and documentation) to start each test event, to identify the proper exit criteria necessary to complete each test event, and obtain Government approval to proceed toward the next milestone leading ultimately to software fielding.

For maintenance releases, the contractor shall conduct a regression test of the revised software to ensure the software changes do not degrade the system operation. The results of the regression test shall be briefed at the TRR.

Deliverables: TRR/ORR Slides

1.3.5.2.2 The TRR shall at a minimum, address the following topics, issues and events:

- Test methodology to verify contents of the release
- Software Problem Reports (SPR) contained in the release
- Review of all formal test documentation (requirements traceability matrix (RTM), test cases, test plans)
- Verification of the availability of all necessary personnel, forms, equipment, software, and support material, and/or data for the test to be performed
- Review that all new requirements are mapped to test cases
- Confirm that each SPR has a test case developed against it, or provision of reason why one has not been developed
- Verification that test procedures have been reviewed and recommendations incorporated into the appropriate documentation
- Results of regression testing

1.3.5.2.3. Once the software is delivered to the Government for UAT, the contractor shall not implement changes to the software baseline under test until the Government has completed (or postponed) testing, prioritized software or test problem reports, and has accepted the change(s) proposed to resolve the problem(s). After completion of UAT, the contractor shall conduct a Production Readiness Review (PRR) that demonstrates readiness of the application and infrastructure to support fielding to the production environment, and to obtain a fielding decision from the Government.

Deliverable: PRR Slides

1.3.5.2.4. If the contractor uses automated test scripts to verify software problem fixes for a software version entering a scheduled test event involving Government participation, the contractor shall provide a user-readable version of the automated test script(s) and expected test result(s) for each test case; these shall be included in the Software Test Cases deliverable. The contractor shall provide the results of automated testing of the software build to be used at the start of scheduled test events, and any builds occurring during scheduled test events. The contractor shall include these automated test result(s) as an addendum to the STR.

1.3.5.2.5. The contractor shall meet all government specifications for each requirement at each release. The PM will make the final decision whether or not to accept all software. Deficiencies will be documented, prioritized, tracked, and may result in non-acceptance of the software release by the Government. The software shall be resubmitted for testing and only accepted by the Government once it successfully passes government testing. In this contract, deficiencies are defined as the difference between the functional specifications stated by the Government and the capability provided in the software being delivered to the Government. The contractor agrees not to charge any amount of cost to this or any other Government contract pertaining to the resolution/correction of software deficiencies resulting from the contractor's own development efforts under this contract. The contractor agrees that resolution of such deficiencies shall be at no cost whatsoever to the Government.

Deliverables: Software Test Plan, Software Test Cases (includes User-Readable Version of Automated Test Script(s) and Expected Test Result(s) for each test case, as applicable), Software Test Reports

1.3.5.3 Task Area 5 Subtask 3 – AMP Software Releases. **The provisions of the corresponding paragraph in Task Order 0007 shall apply to each paragraph below that requires a software release as a deliverable. During the period of performance of this Task Order, the contractor shall provide two (2) minor releases and up to three (3) scheduled maintenance releases and up to six (6) emergency releases that may occur between regularly scheduled releases. Several of the enhancements described in Paragraph 1.3.11 require the developer to deliver software releases. The following pertains:**

Each release must undergo Information Assurance (IA) review to determine the degree to which the changes incorporated into the software impact the security or hardware architectures of the system, or include the implementation of a new operating system, database, or interface (other criteria may apply.) This review is referred to as the certification and accreditation (C&A) process. The contractor shall assist the Government in achieving software acceptance through the USTRANSCOM security C&A process by accomplishing tasks described in Paragraph 1.3.8. Successful completion of this C&A process will result in the issuance by the Designated Accrediting Authority (DAA) of an Approval to Operate (ATO).

Version numbering shall be consistent with the description contained in the Government Configuration Management Plan (CMP).

The contractor shall update the User Guide to provide USTRANSCOM functional personnel appropriate guidance for system operation.

The contractor shall follow the software release process addressed in the Government AMP CMP. The contractor also shall deliver software source code with each release. Using the processes described in the PMO's AMP CMP, the PMO's AMP CCB will determine the contents of each software release after consideration of developer's recommended release contents and the functional user's priorities.

The contractor shall deliver a software Version Description Document (VDD), following the configuration management procedures described in Paragraph 1.3.9, and not later than the deliverable due date stipulated in Paragraph 1.4.

Deliverables: VDD, Software Release, Updated User Guide, Software Source Code

1.3.6 Task Area 6 – Application Administration. The contractor shall provide on-site application support to USTRANSCOM functional users for the system. This includes the following activities:

- Plan, schedule and install new or modified software, to include application patches and updates. Troubleshoot AMP installation problems.
- Support installation, optimization, backup, recovery, modification and upgrade of software. Debug AMP software and support testing of the application (e.g., support of UAT, USTRANSCOM Test Lab, installation of the application on 64-bit workstations, Host Based Security System).
- Provide technical support for system reengineering efforts.
- Keep information located on the AMP webshare site current, including keeping the web pages updated with the latest downloadable AMP software releases, sample data, and AMP User Group materials
- Work with Government security and networking personnel on application-related issues.
- Support the Technical Assessment activities and provide required updates.

The contractor shall update the application administration manual to support the system. The contents of the manual shall include account administration; software installation; obtaining, generating, and updating reference files, shared drives, and web pages; troubleshooting and resolving operating system conflicts, maintaining logs, and creating reports, as required.

Deliverable: Updated Application Administration Manual

1.3.7 Task Area 7 – AMP Federation Model User Training. The contractor shall provide AMP Federation Model training on 10 occasions during the period of performance. Training shall be on the use of the AMP Federation modeling tools. USTRANSCOM will coordinate and provide the training classroom (including hardware) if such training is required. Training shall be consistent with industry standards and result in the trainees' full understanding of the capabilities and the designed use of the associated software applications and GUIs. User training prescribed in this Task Order may be combined with user training required by other task orders in effect during the period of performance of this Task Order, if appropriate.

1.3.8 Task 8 – Security Engineering and Cyber Security Requirements

1.3.8.1 Task 8 Subtask 1 – Security Engineering Requirements.

The contractor shall evaluate AMP applications to ensure security issues are identified and addressed.

1.3.8.1.1 The contractor shall monitor and analyze IA Vulnerability Management (IAVM) Notices, USTRANSCOM Security Notifications, United States Cyber Command (CYBERCOM) and vendor security advisories and make recommendation to the Government for applicability to AMP.

1.3.8.1.1.1 The contractor shall prepare an initial analysis and assessment "quick-look" for high impact (risk) advisories (based on the Security Technical Implementation Guide [STIG] Finding Severity Category listed in the IA Vulnerability Advisories [IAVA] and IA Vulnerability Bulletins [IAVB] to the PM and AMP Engineer. All STIG Finding Severity Category I and II IAVAs and IAVBs are considered high impact.

Deliverable: High Impact Risk Advisory.

1.3.8.1.1.2 The contractor shall prepare an analysis for other than high impact advisories and provide it to the AMP Engineer.

Deliverable: Other Risk Advisory.

1.3.8.1.1.3 The contractor shall provide a summary of security analysis and assessment results at the IPT and an update in the MSR.

Deliverable: Security Summary.

1.3.8.1.2 The contractor shall analyze applicable security bulletins to determine impact, identify mitigating factors, and develop recommendations to the Government regarding potential courses of action. Contractor recommendations shall be compliant with AMP, USTRANSCOM, and DOD security requirements. The contractor shall ensure that patch deployments and other significant security activities are documented in the IMS.

1.3.8.1.3 System Design, Information System Security Engineering Principles. The contractor shall ensure that information system security engineering is employed during all changes to the system architecture. As part of the contractor's change control process, the contractor shall ensure participation by an Information System Security Engineer or an IA representative qualified in accordance with DOD 8570.01-M, Information Assurance Workforce Improvement Program, to evaluate the impact of each change on security. The contractor shall document the results of this evaluation in a report to the PM.

1.3.8.1.4 Software Assurance and Security Engineering Practices. In coordination with the Government, the contractor shall design, develop and implement secure applications and configurations through applying applicable DOD Security Technical Implementation Guides (STIGs), checklists, vendor security guidance, industry best practices, such as those discussed in the documents located at http://www.safecode.org/publications/SAFECode_BestPractices0208.pdf and [https://www.isc2.org/uploadedFiles/\(ISC\)2_Public_Content/Certification_Programs/CSSLP/ISC2_WPIV.pdf](https://www.isc2.org/uploadedFiles/(ISC)2_Public_Content/Certification_Programs/CSSLP/ISC2_WPIV.pdf); and applicable vendor product security patches. The contractor shall ensure applications comply with DOD Instruction (DODI) 8500.2, Information Assurance Implementation, and DODI 8551.1, Ports, Protocols, and Services Management (PPSM). The contractor shall leverage automated tools to identify and remediate vulnerabilities or weaknesses in the application design/coding, such as those described in CWE/SANS TOP 25 Most Dangerous Programming Errors (<http://www.sans.org/top25-programming-errors>) and OWASP Top Ten (http://www.owasp.org/index.php/Category:OWASP_Top_Ten_Project), that could be exploited by unauthorized sources. The Information System Security Engineer shall participate in Government and contractor formal and informal design reviews to identify potential security weaknesses, deficiencies, and/or vulnerabilities in the design. The Information System Security Engineer shall also ensure appropriate security requirements are included as part of the requirements traceability matrix and are evaluated as part of the security test and evaluation (ST&E). As part

of the contractor's change control process, the contractor shall ensure participation by the Information System Security Engineer or an IA representative qualified IAW DOD 8570.01-M, Information Assurance Workforce Improvement Program, to evaluate the impact of each change on security. The contractor shall document the results of this evaluation.

1.3.8.1.5 Non-Secure Software. If the Government determines, after a security audit (e.g., ST&E), that software delivered under this contract is non-secure, the Government will provide written notice to the contractor of each non-conformity. Software will be "non-secure" under this contract if it contains a programming error listed on the current approved version of the CWE/SANS TOP 25 or a web application security flaw listed on the current approved version of the OWASP Top Ten. Such notice constitutes revocation of acceptance of delivered software. The contractor shall have twenty (20) business days after receipt of such notice (Remedy Period) to remedy each non-conformity by modifying/replacing and redelivering the software to the Government. If the Government determines, after a security audit following a Remedy Period, that the redelivered software is non-secure, and thus non-conforming, the Government may reject the delivery, provide notice of the non-conformance, and document the contractor's performance record. Alternatively, the Government may accept non-conforming software, receive appropriate consideration (equitable price reduction on a fixed price contract, reimbursement for costs of security audit, reimbursement for costs to correct the non-compliances, etc.), and document the contractor's performance record.

1.3.8.1.6 Malicious Code Warranty. The contractor represents and warrants that the software shall be free from all computer viruses, worms, time-outs, time bombs, back doors, disabling devices, and other harmful or malicious code intended to or which may damage, disrupt, inconvenience, or permit access to the software user's or another's software, hardware, networks, data, or information.

1.3.8.1.7 Source Code Configuration Control (Versioning). The contractor will use a strict version control process for software development and provide two copies of source code for all software versions developed under this contract. Source code shall be provided IAW Paragraph 1.3.5.3 and delivered IAW Paragraph 1.4.

1.3.8.2 Task 8 Subtask 2 – System Security Documentation.

The contractor shall assume responsibility for management and update of existing system security documentation that has been developed to facilitate AMP security accreditation in accordance with the DOD Information Assurance Certification and Accreditation Process (DIACAP). The contractor shall perform the security certification activities described below to maintain AMP accreditation and support re-accreditation. The contractor shall support USTRANSCOM's use of the DOD Enterprise Mission Assurance Support Service (eMASS) system for automated accomplishment of the certification and accreditation process. The contractor shall update eMASS a minimum of once per year and once for each software release and provide supporting IA documentation for upload as artifacts in eMASS. The Government will provide eMASS accounts to designated contractor IA personnel in support of this requirement. The Government also will provide eMASS computer-based training to the designated contractor personnel.

1.3.8.2.1 At a minimum, the contractor shall ensure compliance with the following applicable directives:

- DOD Directive (DODD) 8500.1, Information Assurance, October 24, 2002
- DOD Instruction 8500.2, Information Assurance Implementation, February 6, 2003
- DODD 8570.01, Information Assurance Training, Certification and Workforce Management, April 23, 2007
- DODI 8570.01-M, Information Assurance Workforce Improvement Program, April 20, 2010
- CJCS Manual 6510.01E, Defense-in-Depth: IA and Computer Network Defense (CND), August 15, 2007
- DODI 8510.01, DOD Information Assurance Certification and Accreditation Process (DIACAP), November 28, 2007
- Government directed modifications to Policy or Guidance

1.3.8.2.2 AMP has been designated Mission Assurance Category (MAC) III, Classified, for the purposes of applying IA controls. The contractor shall develop and maintain the below list of documentation required to support DIACAP accreditation decisions.

1.3.8.2.3 The System Security Plan (SSP) shall serve as the overarching document. The SSP shall address all of the applicable DODI 8500.2 IA controls, and shall be recognized as the official system security policy and will be signed by the AMP PM, Functional Manager, Information Assurance Officer and the Certifying Authority. The contractor shall deliver the documents listed below as appendices to the SSP:

- Audit Design Artifact *
- Audit Subsystem Artifact *
- Cryptographic Subsystem Artifact *
- IA Acquisition Artifact *
- Identification and Authentication Subsystem Artifact *
- Incident Response Plan (IRP) Artifact *
- Interconnections Artifacts *
- Personnel Security Artifact *
- Remote Access Artifact Security *
- Security Design Document (SDD) Artifact *
- Security Test Plan (STP) Artifact *
- Vulnerability Management Plan (VMP) Artifact *
-

Note: The Government will provide templates for the items denoted with an asterisk (*).

Deliverable: System Security Plan and appendices

1.3.8.3 Task 8 Subtask 3 – Cyber Security Requirements.

1.3.8.3.1 (Option) Requirements for Contractor Provision of Security Plan and Information Assurance (IA)

Controls. The contractor shall establish an IA Program to implement and sustain appropriate IA management, operational, and technical controls and processes required to safeguard DOD non-public information resident on or transiting the contractor's unclassified information systems from unauthorized access and disclosure. Protection measures applied must be commensurate with the risks (i.e. consequences and their probability) of loss, misuse, unauthorized access, or modification of information. The contractor shall submit for Government approval an overarching security plan that describes its strategy for implementation of IA and Industrial Security requirements throughout the life of the contract. The security plan shall address the security controls described in NIST Special Publication 800-53, Revision 3, Recommended Security Controls for Federal Information Systems and Organizations (<http://csrc.mist.gov/publications/PubsSPs.html>), and shall be tailored in scope and depth appropriate to the effort, the specific unclassified DOD information resident on or transiting the contractor's unclassified information systems, and approved by the Government.

1.3.8.3.2 (Option) Developer Environment, Mission Assurance Code, and Confidentiality Level. The contractor development environment shall be physically and logically isolated from other networks, to include its enterprise unclassified network. Security guidelines for the environment must be documented and the security program implemented shall address the security controls described in National Institute of Standards and Technology (NIST) Special Publication 800-53, Revision 3, Recommended Security Controls for Federal Information Systems and Organizations (<http://csrc.mist.gov/publications/PubsSPs.html>).

1.3.8.3.3 (Option) Remote Access. Contractor Furnished Equipment (CFE) employed for remote access to a Government network shall meet equivalent Government Furnished Equipment (GFE) IA computing requirements. The contractor shall ensure that all CFE (hardware and software) employed to access these environments meet the following minimum Government IA requirements and provide periodic certification of compliance as a pre-requisite to being granted network access.

- 1 Use of personal systems is prohibited;
- 2 OSs and applications shall be configured for compliance with the DISA Gold Disk and applicable STIGs;
- 3 DOD approved anti-virus and anti-spyware software shall be installed and signatures must be configured to automatically update on a daily basis;
- 4 DOD approved personal firewall shall be utilized and configured to permit traffic by exception only, dropping all other traffic. If the personal firewall provides intrusion detection or prevention; the signatures or rules shall be updated at the same intervals as the anti-virus software;
- 5 Computers must be IAVM compliant;
- 6 Computers shall be scanned with the DOD version of E-eye Retina vulnerability scanner (or current approved DOD scanner solution) at a minimum of every twenty (20) business days. All vulnerabilities shall be remediated and reported to the AMP Information Assurance Manager (IAM).
- 7 Contractor employees shall possess a current Government issued CAC and install Government certified CAC readers; and
- 8 Verification of compliance with these requirements shall be provided to appointed Government representative on a monthly basis.

1.3.8.3.4 (Option) Periodic Government Inspections. The contractor shall authorize periodic Government inspections and reviews to assure compliance with DOD IA requirements throughout the contract performance period. The contractor will be responsible for taking corrective action based upon the impact and severity of identified weaknesses.

1.3.8.3.5 (Option) Detect, Analyze, Respond.

1 The contractor shall report to the USTRANSCOM Technical Information Analysis Center (TIAC) and USTRANSCOM designated Government personnel within 4 hours of discovery of a suspected cyber intrusion events that affect DOD information resident on or transiting the contractor's unclassified information systems. Initial report shall be provided even if some details are not yet available, with follow-on detailed reporting within 24 hours. Reportable cyber intrusion events include the following:

- A cyber intrusion event appearing to be an advanced persistent threat
- A cyber intrusion event involving data exfiltration or manipulation or other loss of DOD information resident on or transiting the contractor's, or its sub-contractors', unclassified information systems
- Intrusion activities that allow unauthorized access to an unclassified information system on which DOD information is resident or transiting

Note: Definition of advanced persistent threat: An extremely proficient, patient, determined, and capable adversary including two or more of such adversaries working together.

2 The incident report shall include, at a minimum, the following information:

- Applicable dates (date of suspected compromise and date of discovery)
- Threat methodology (all known resources used such as Internet Protocol (IP) addresses, domain names, and malware)
- An account of what actions the threat(s) may have taken on the victim system/network and what information may have been accessed
- A description of the roles and functions of the threat-accessed system
- An initial list of potentially impacted Government programs and each program's classification

- What information may have been exfiltrated that may impact Government programs
- A list of all employees and subcontracted employees who work or have worked with the victim system/network
- A point of contact to coordinate damage assessment activities

3 Incident Report Submission. The contractor will submit unclassified network cyber incident reports to the USTRANSCOM TIAC and USTRANSCOM designated Government personnel via encrypted email or another mutually agreed upon secure communications method. Copies of malware require special handling and pre-coordination must be accomplished prior to submission.

4 Incident Response Coordination. In the event of a known or potential intrusion, the contractor agrees to allow follow-on actions by the Government to further characterize and evaluate the suspect activity. The contractor acknowledges that damage assessments may be necessary to ascertain intruder methodology and identify systems compromised as a result of the intrusion. The contractor acknowledges that in certain cases a complete forensic analysis may be necessary to ascertain intruder methodology and identify systems compromised as a result of the intrusion. The contractor acknowledges that once unauthorized access is identified, destruction of evidence related to the suspect activity could constitute obstruction of a criminal investigation in violation of 18 U.S.C. § 1510. Follow-on actions will be coordinated with the contractor via the COR.

1.3.8.3.6 (Option) Law Enforcement/Counterintelligence. In the event of a known or potential intrusion, the contractor shall consent to responding counterintelligence or law enforcement investigative agency requests to apply forensic analysis tools to contractor information systems affected by the intrusion, including monitoring tools, imaging tools, and other techniques that the agency seeks to apply to effectively analyze the intrusion. The contractor shall allow the responding counterintelligence or law enforcement investigative agency to image affected systems, including systems containing proprietary information. Nothing in this contract shall limit the ability to conduct law enforcement or counterintelligence activities, or other activities in the interest of national security.

1.3.8.3.7 (Option) Information Sharing. The Government may use and disclose reported information that does not include attribution information (e.g., information regarding threats, vulnerabilities, incidents, or best practices) at its discretion to assist entities in protecting information or information systems (e.g., threat information products, threat assessment reports); provided that such use or disclosure is otherwise authorized in accordance with applicable statutes, regulations, and policies.

1.3.8.3.8 (Option) Confidentiality and Non-Attribution Statement. The Government will take reasonable steps, by controlled access and need-to-know procedures, to protect against public release of attribution information of the contractor. The Government may use and disclose reported information that includes attribution information only on a need-to-know basis to authorized persons for cyber security and related purposes (e.g., in support of forensic analysis, incident response, compromise or damage assessments, law enforcement, counter intelligence, threat reporting, and trend analysis). The Government may disclose attribution information to support contractors that are supporting the Government's cyber security and related activities if these support contractors are subject to legal confidentiality requirements that prevent any further use or disclosure of the attribution information. The Government agrees to consider available exemptions of the Freedom of Information Act to protect against disclosure of attribution information of the contractor to unauthorized persons. Within a reasonable period necessary to perform an analysis after completion of the assessment, all contractor proprietary information or third party proprietary information in the possession of the Government as a result of the assessment will be destroyed unless other disposition is agreed upon in writing by the Parties or is required by law, Executive Order or regulation.

1.3.8.3.9 Information Assurance Training. The contractor's employees physically assigned to USTRANSCOM / Transportation Component Commands (TCC) at Scott AFB shall attend/complete security training as prescribed by DOD and USTRANSCOM/TCC instructions. At a minimum, this includes Employee Initial Security Training, Annual Security Awareness Training, Operations Security (OPSEC), DOD Antiterrorism Level 1 Training, Personally Identifiable Information (PII) Training and Security Stand-Down Day Training scheduled by the Commander of the organization to which the employee is assigned. Contract employees assigned elsewhere shall attend security training established by their respective government security offices and/or installations.

1.3.8.3.10 Information Assurance Workforce Improvement Program (IAWIP). The contractor shall:

1 Ensure that personnel accessing information systems have the proper and current information assurance certification to perform information assurance functions in accordance with DOD 8570.01-M, IAWIP. The contractor shall meet the applicable information assurance certification requirements, including:

- DOD-approved information assurance workforce certifications appropriate for each category and level as listed in DOD 8570.01-M; and
- Appropriate operating system certification for information assurance technical positions as required by DOD 8570.01-M

2 Upon request by the Government, the contractor shall provide documentation supporting the information assurance certification status of personnel performing information assurance functions.

3 Contractor personnel who do not have proper and current certifications shall be denied access to DOD information systems for the purpose of performing information assurance functions.

Deliverable: IAWIP Certification Documentation

1.3.9 Task Area 9: Configuration Management (CM).

Provisions of this paragraph and its subparagraphs also shall apply to other TWCF-funded task orders issued during the period of performance of Task Order 0007. This support is required to meet the DIACAP and USTRANSCOM technical and security requirements. The CM process facilitates orderly configuration identification, change identification and control, status reporting and configuration auditing of product information for such beneficial purposes as to revise capability; improve performance, reliability, or maintainability; extend life; reduce cost; reduce risk and liability; or reduce defects. CM ensures that changes take place in an identifiable and controlled process and do not adversely affect the properties of the other system or interfaces. CM establishes and maintains the integrity of the products of a project throughout the project life cycle. CM involves identifying the configuration items of products developed and delivered to the customer, systematically controlling changes to the configuration, and maintaining configuration traceability. The contractor's configuration management processes must complement the Government configuration management processes.

1.3.9.1 Task 9 Subtask 1: Configuration Manager Responsibilities.

The contractor's Configuration Manager shall develop a CMP and processes that are consistent with the Government CMP and processes. The contractor's Configuration Manager shall establish and maintain the following:

- **Plan organization**
- **Methods, procedures, and controls**
- **Baselines (versioning)**
- **Configuration identification**
- **Change control**
- **Configuration status accounting**
- **CM audits of total configuration to include hardware, software, and firmware**
- **CM Repository**

- **CM Process**

Deliverable: CMP**1.3.9.2 Task 9 Subtask 2: Configuration Identification.**

The contractor shall provide configuration identification as specified in its CMP. This identification may include hardware configuration items or software configuration items. All configuration items must be uniquely identifiable by use of a configuration item number and nomenclature.

Deliverable: Updated Configuration Item Listing

1.3.9.3 Task 9 Subtask 3: Change Control.

The contractor shall provide change control for all AMP baselines and configuration items to include documentation, hardware, Commercial-off-the-Shelf (COTS) software, application, source, and executable code. The contractor shall employ its change control process to identify, track, and release all changes and problems identified with the program. The contractor initially shall use its change control process and will transition to the PMO's requirements management tool (Rational ClearQuest) to identify, track, and release all changes and problems identified with the program when directed by the Government. The Government will provide web access to ClearQuest for the contractor's helpdesk and support personnel. The contractor shall provide all source code deliveries to the Government provided tool (Rational ClearCase), when directed by the Government. The Government will provide the web access to the contractor's CM team for this purpose.

1.3.9.4 Task 9 Subtask 4: Evaluating Requested Changes.

The contractor shall evaluate all Change Requests. Evaluations include requirement clarification and analysis, including an estimate of the level of effort to implement the requested change, determination if the requirement is obligatory or optional, determination if the requirement is feasible, and the consequences of the proposed change, such as ability to adhere to standards and any impacts on training. Depending on the amount of information required or provided, the contractor shall provide this information to the Government via the automated requirements management tool and/or as a separate document. The contractor shall initially use its change control process supported by tools it currently uses. The contractor shall transition its current change control database to the Government's requirements management tool when the latter is implemented. Upon the implementation of the CCT databases, the contractor shall have thirty (30) business days to transition to the Government-provided CCT.

Deliverable: Change Request Evaluation Report**1.3.9.5 Task 9 Subtask 5: Asset Management.**

The contractor shall provide and maintain an asset management system to track all AMP hardware and software, warranties, maintenance support agreements, software licensing, and accountability for significant hardware purchases or upgrades. The contractor shall identify all existing infrastructure assets, hardware, and COTS software that are not IPv6 capable. The contractor shall provide status of baselines, configuration items, and all outstanding enhancements and defects. The contractor will provide Status Accounting Reports to the Government semi-annually (6 and 12 months following contract award).

Deliverable: Status Accounting Reports

1.3.9.6 Task 9 Subtask 6: Configuration Control Board (CCB).

Upon request by the Government, the contractor's Configuration Manager will participate in the Government's CCB. The contractor's Configuration Manager will act as the liaison between the Government and contractor to provide additional information that the CCB requires. The Government estimates quarterly CCBs per each contract period lasting no more than one hour per CCB with minimum preparation time.

1.3.9.7 Task 9 Subtask 7: Change Working Group (CWG).

The contractor's Configuration Manager will participate in CWGs. The CWG is formed under the authority of the CCB and meets when directed by the Government. The Government estimates CWGs will be held approximately every two weeks during the period of performance. Meetings will last no more than one hour, and should require minimum preparation time. The CWG will review contractor change request evaluations, unresolved Help Desk tickets, proposed releases, data quality issues, Engineering Change Proposals (ECPs), requests for deviations, etc. The CWG determines the validity of all items and issues and prepares each item for CCB presentation if required.

1.3.9.8 Task 9 Subtask 8: Configuration Management Audits.

The contractor shall conduct physical and functional configuration audits of each code baseline or release delivered to the Government. The Government reserves the right to participate in the audits. The contractor shall notify the Government of its intent to conduct a physical or functional configuration audit no later than 30 calendar days prior to the conduct of each of these audits.

1.3.10 Task Area 10: Enhancements.

1.3.10.1 Task Area 10 Subtask 1: AMP-PAT Surface Movement Synchronization. The contractor shall add setup synchronization for assets between AMP and AMP-PAT GUIs. This capability will synchronize on the number of trucks, storage capacities, number of rail assets, and vehicle types.

1.3.10.2 Task Area 10 Subtask 2: Federation Performance. The contractor shall enhance the software to support runs up to twelve years in duration.

1.3.10.3 Task Area 10 Subtask 3: Aircraft Generation Schedule. The contractor shall update the aircraft generation schedule editor to support changing the M-Day values without deleting and re-adding the column.

1.3.10.4 Task Area 10 Subtask 4: AMP Transportation Network Management. The contractor shall support enhancements to the transportation network capability. The contractor shall confer with analysts to determine an approach for improving the way network management is currently conducted, and shall update GUIs to support this. The contractor shall enhance the "Disconnected GEOLOC" Report to allow drilldown in the report, to include zooming on the map, connecting to the closest node, and connecting to the closest link. The contractor shall update the AMP application to allow for comparison of route length deviations from great circle distances and compare length fidelity. The contractor shall enhance the overall network management capability by providing ways to more easily work network connectivity disconnects, improve performance, and merge networks more easily. The contractor shall also fix errors which occur while working in the network management construct.

1.3.10.5 Task Area 10 Subtask 5: AMP Strategic Support and Integration. The contractor shall ensure the AMP Federation accommodates enhancements to the Strategic module. The AMP developer shall coordinate with the Strategic module developer to understand Strategic module enhancements and support full integration efforts. The Government will coordinate with the Strategic modeling PMO for new capability to support the AMP Federation.

1.3.10.6 Task Area 10 Subtask 6: AMP Theater Support and Integration. The contractor shall ensure the AMP Federation accommodates enhancements to the Theater modeling module. The AMP developer shall coordinate with the Theater module developer to understand Theater module enhancements and support full integration efforts. The Government will coordinate with the Theater modeling PMO for new capability to support the AMP Federation.

1.3.10.7 Task Area 10 Subtask 7: AMP-PAT and Land, Air and Sea Warfight Model Federation Integration. The contractor shall keep the Federation up-to-date with AMP-PAT and appropriate land, air and sea warfight model releases.

1.3.10.8 Task Area 10 Subtask 8: AMP Mapping Support. The contractor shall continue to integrate and test mapping support in AMP. The contractor shall keep AMP up-to-date with OpenMap releases and will continue to add key setup and run time information on the map.

1.3.11 Task Area 11 – New Development. The contractor shall provide the following new software capability to the existing AMP application. Paragraph numbers below are consistent with those found in the basic Indefinite Delivery (ID) / Indefinite Quantity (IQ) contract, HTC711-10-D-S002, but may not sequentially follow each other due to changes in functional priority. The paragraph numbering for those enhancements that do not appear in the basic contract sequentially follow the paragraph numbers for enhancements listed in Task Order 0006 of this contract.

1.3.11.68 Surface Modeling Control. The contractor shall deliver the capability to turn on/off the detailed surface modeling capability throughout the course of a single run. The ability to do this will be controlled by a schedule, and when the detailed surface model is not on, the time-distance simulation will be used.

1.3.11.69 AMP Reports/Results. The contractor shall continue to design, develop and test feedback of interim and final AMP Federation results. This includes reports, results viewing and graphs.

Deliverable: Software Release

1.3.11.69.1 TPFDD Report. The contractor shall deliver a report that provides details about what data AMP “fixed” when the TPFDD was imported.

1.3.11.69.2 Access to Reports. The contractor shall deliver the capability to access all reports from archived runs, without having to re-run the model.

1.3.11.69.3 Results Tracing. The contractor shall deliver six new reports/graphs which will assist users in analyzing this data.

1.3.11.69.4 Add GEOLOCs from “Missing Nodes” Report. The contractor shall deliver the GUI to enable drilldown options from the “Missing Nodes” reports to either find and create network nodes from the GEOLOC file; or bring up an editor to create user-defined GEOLOCs and create network nodes from them. These editors shall connect these nodes with road/rail links, if designated by the user.

1.3.11.70 AMP Critics. The contractor shall continue to design, develop, test, and implement AMP ‘Critics.’ These include pre-run checks on AMP setup data and post-run checks on Federation results.

1.3.11.71 Stochastic Demand. The contractor shall deliver the capability to stochastically generate new sustainment emergency requirements that pull from a stochastically chosen source. To support this, the contractor shall deliver the capability to run multiple trials.

1.3.11.72 Air Refueling (A/R). The contractor shall deliver the capability, within the AMP construct, to perform air refueling activities.

1.3.11.72.1 Infrastructure Design & Strategic A/R. The contractor shall deliver the capability, within the AMP construct, to conduct strategic air refueling activities. The contractor shall deliver the capability to coordinate tanker and strategic aircraft to ensure the fuel needed is available at the proper time and location. The contractor shall deliver the capability to delay receiver and/or tanker missions when there is projected congestion at the arrival airport and the aircraft is scheduled to use aerial refueling.

1.3.11.72.2 (Option) A/R Support of Deployments. The contractor shall deliver the capability, within the AMP construct, to support air refueling of receiver aircraft during deployments. This includes the development of fighter deployment routes.

1.3.11.72.3 Theater Tanker Operations. The contractor shall deliver the capability, within the AMP construct, to support air refueling during theater operations. This will include the employment of tanker assets in support of air combat operations.

1.3.11.72.4 (Option) Cargo on Tanker Aircraft. The contractor shall deliver the capability, within the AMP construct, to use tanker aircraft to perform cargo delivery operations.

1.4 Deliverables. The contractor shall deliver data and software (with applicable data rights) as set forth in the below tables. IAW DFARS 252.227-7013 and DFARS 252.227-7014, the Government obtains under this contract “unlimited rights” to all non-commercial computer software, software source code, computer software documentation, enhancements, technical data, and similar non-commercial data developed exclusively at Government expense and delivered to the Government under this contract. “Unlimited rights” means rights to use, modify, reproduce, release, perform, display or disclose in whole or in part, in any manner and for any purpose whatsoever, and to have the ability to authorize others to do so. The contractor agrees that regardless of how contractor provided data/software is developed or modified during contract performance, the contractor will deliver data/software marked IAW requirements in DFARS 252.227-7013, 252.277-7014, or other applicable reference.

For all other non-commercial data delivered under this contract, the Government has the right to use, modify, reproduce, release, display or disclose, in whole or in part, in any manner and for any purpose whatsoever, and to have or authorize others to do so.

The contractor shall prepare all deliverables using a Government-supported version of Microsoft Office (including Access, as necessary) or Microsoft Project software, with the exception of source code, which the contractor shall provide in native code language. The contractor shall upload files directly into the USTRANSCOM-provided Joint Deployment Planning and Analysis Center webshare. If the contractor is unable to load the deliverable file(s) on the webshare, then the contractor shall provide a soft copy of each deliverable via e-mail to ustcj6-p-cm@ustranscom.mil. Should this second method of transmittal prove unsuccessful, the contractor shall provide the required deliverables on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. “Format”, as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Due Date
1.3.1.1	TOMP	Government-Determined	30 calendar days after Task Order award; Updates due 30 calendar days after receipt of each subsequent Task Order award	15 calendar days from receipt of Government comments
1.3.1.2	MSR	Government-Determined	N/A	10 th calendar day of each month; Final to be provided NLT the last day of the contract
1.3.1.3	Presentation Materials, IPR Meeting Minutes	Government-Determined	Presentation Materials due 2 business days prior to IPR	Meeting Minutes 5 days after IPR
1.3.1.4	IMS	MS Project	10 calendar days after Task Order award; Updated monthly (include with MSR) or when schedule changes	5 calendar days from receipt of Government comments
1.3.3	Requirement	Contractor-	Within 5 business days of	Within 5 business days

	Impact Assessment	Determined Format	entry of requirement in program RMT	after receipt of Government comments
1.3.5.1	Software Requirement Specification (SRS)	Contractor-Determined Format	NLT 30 calendar days prior to scheduled TRR	NLT 10 calendar days after receipt of Government comments
1.3.5.2.1	TRR/ORR Slides	Government-Determined Format	NLT 3 business days before scheduled TRR/ORR	NLT one business day before scheduled TRR/ORR
1.3.5.2.3	PRR Slides	Government-Determined Format	NLT 3 business days before scheduled PRR	NLT one business day before scheduled PRR
1.3.5.2	Software Test Plan	Contractor - Determined Format	NLT 30 calendar days before scheduled TRR	NLT 10 calendar days after receipt of Government comments
1.3.5.2	Software Test Cases	Contractor - Determined Format	NLT 30 calendar days before scheduled initial delivery of software	NLT 10 calendar days after receipt of Government comments
1.3.5.2	Software Test Reports	Contractor - Determined Format	N/A	NLT 5 business days following each test involving Government participation
1.3.5.3	Software VDD	Government-Determined Format	NLT 60 calendar days prior to scheduled initial delivery of software	At ORR
1.3.5.3, 1.3.10 and subparas, 1.3.11 and subparas	Software Release	Contractor-Determined Format	Initial delivery at scheduled Production Readiness Review (PRR)	Final delivery at scheduled Operational Readiness Review (ORR), or at Government's request, end of performance period
1.3.5.3	Updated User Guide	Contractor-Determined Format	Updates due NLT 20 calendar days prior to major software release	NLT 10 calendar days after receipt of Government comments
1.3.5.3	Software Source Code	Contractor-Determined in Native Format	N/A	NLT 5 business days following ORR
1.3.6	Updated Application Administration Manual	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments
1.3.8.1.1.1	High Impact Risk Advisory	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments
1.3.8.1.1.2	Other Risk Advisory	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments
1.3.8.1.1.3	Security Summary	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments
1.3.8.2.3	SSP and appendices	Government-Determined Format	Updates as required by the Government	NLT 10 days after receipt of Government comments
1.3.8.3.9	Contractor Security Training Completion	Government-Determined Format	N/A	Upon completion of training

	Documentation			
1.3.8.3.10	Contractor IAWIP Certification Documentation	Vendor-Determined Format	N/A	Produced Upon request of the Government
1.3.9.1	Configuration Management Plan	Government-Determined Format	Update as required by the Government	NLT 10 calendar days after receipt of Government comments
1.3.9.2	Updated Configuration Item Listings	Contractor - Determined Format	NLT 60 calendar days prior to end of performance period for this Task Order	NLT 10 calendar days after receipt of Government comments
1.3.9.4	Change Request Evaluation Report	Contractor - Determined Format	N/A	NLT 15 days following receipt of change request
1.3.9.5	Status Accounting Reports	Contractor - Determined Format	Monthly, with the MSR	NLT 5 calendar days after receipt of Government comments
4.4.1	Trip Report	Government-Determined Format	N/A	5 days after completion of travel

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Develop and Deliver IMS	1.3.1.4,	Documents: No more than one (1) late delivery of draft and no more than 5 days late. Documents should contain no more than 1 critical or more than 4 substantive comments per document. No more than 2 sets of revisions/corrections with all revisions/corrections accomplished or incorporated by due date. (A second "set" may be necessary should Government comments be required on the second draft (or "final") delivery in response to the first set of Government comments.) Software: Delivered on time, with no more than 1 planned version delivered no more than 5 days beyond ORR (according to contractor- and Government-agreed schedule), with no more than 2 Priority 1 problem reports, 4 or fewer Priority 2 problem reports, 6 or fewer Priority 3 or below problem reports. All Priority 1 and 2 and 50% or more of the Priority 3 problem reports submitted during UAT resolved and operational software delivered on time, according to contractor- and Government-agreed schedule, with no more than 1 planned version delivered no more than 2 days beyond PRR, according to contractor- and Government-agreed schedule.
Deliver Software Release, Updated User Guide, Software Source Code, VDD	1.3.5.3,	
Develop, Update & Provide SSP (and associated appendices)	1.3.8.2.3	

2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). GFE listed in the table below will be used to support the AMP tasks to be performed at the contractor's site. USTRANSCOM will maintain all GFE. The USTRANSCOM objective is to accomplish required maintenance within 48 hours of receipt at USTRANSCOM and to return the GFE to the contractor via overnight delivery. The Government will provide the equipment and leased line to support the Secure Internet Protocol Router Network (SIPRNET) connection in support of the secure network requirement described in Paragraph 5.17 of the PWS in Contract HTC711-10-D-S002.

GOVERNMENT FURNISHED EQUIPMENT (GFE) LISTING

Serial Number	Part Number	Model Number	Model Description
23579681	61000034D2	CPU	Gateway P4 1400
031C16C7	61000033J9	SUN	18.2 GB Hard Drive
045H2C5A	610000341P	SUN	ULTRA 60
219V00AE	610000365L	SERVER	SUN FIRE 880
450G4023	61000035ZH	TAPE DRIVE	SUN External
602F0284	610000082X	SUN	ULTRA 1
628G3304	6100003250	SUN	Tape Drive
7WF16B1		SERVER	DELL 6850 POWEREDGE SERVER
9429FR3687	61000033YI	SUN	Monitor
9502FR4029	61000008II	SUN	Monitor
DZKWN41		CPU	Dell Precision 650 (Strongbad)
TW22530559		MONITOR	HP 17" Flat Panel
27645944	610000367D	CPU	Gateway E6000 P4 2400
201003317	61000035T4	MONITOR	NEC Flat Panel 18"
FBKYRF1		WORKSTATION	Dell Precision 690 (Fabfour)
MUL8006A0045134	61000037MA	MONITOR	Gateway (Wolverine)
85SVT91		WORKSTATION	Dell Precision 670 (Wolverine)
24682585	610000367D	PC	Gateway P4 1400
MCOC95364663477C1C5L		MONITOR	Dell 20" LCD (Fabfour)
962R6B1		Disk Array	Dell/EMC ax150 RAID Array
MUL8006A0045628?	61000037ML	MONITOR	Gateway (Strongbad)
C8KQ6B1	26639930989	SERVER	DELL 6850 POWEREDGE SERVER

3.2 Government-Furnished Information. The Government will provide the latest version of the following documents to the contractor:

- DIACAP Artifact Templates

- System Classification Guide
- System Security Policy
- MIL-STD 3022, Documentation of Verification, Validation, and Accreditation (VV&A) For Models And Simulations, 28 Jan 2008
- USTRANSCOM Pamphlet 33-2, Communication Guide
- DOD Instruction 5000.61, DOD Modeling and Simulation (M&S) Verification, Validation, and Accreditation (VV&A)
- Government CMP
- Government Contingency Management Plan (discretionary)
- DODD 2000.12, DOD Antiterrorism Program, August 18, 2003
- DODD 8500.1E, Information Assurance, October 24, 2002
- DODI 2000.16, October 2, 2006 (DOD Antiterrorism Standards)
- DOD 5200.08-R, Change-1, DOD Physical Security Program, May 27, 2009
- DOD 5200.1-R, DOD Information Security Program, January 14, 1997
- DOD 5200.2-R, Change-3, Personnel Security Program, February 23, 1996
- DOD 5220.22-M, National Industrial Security Program, February 28, 2008
- DODI 8500.2, Information Assurance Implementation, February 6, 2003
- USTC 31-10 (Security Classification Guide)
- USTC 31-11 (USTRANSCOM Security Program)
- CJCS 6510.01E, Defense-in-Depth: IA and Computer Network Defense, 12 August 2008
- DOD 8570.01-M, Change-2, Information Assurance Training, Certification and Workforce Management, April 20, 2010
- DOD MIL-HBK-881A, Handbook for Preparation of Statement of Work, July 30, 2005
- DODI 8520.2, Public Key Infrastructure and Public Key Enabling, April 1, 2004
- DODI 8551.1, Ports, Protocols, and Services Management, August 13, 2004
- DODI 8510.01, DOD Information Assurance Certification and Accreditation Process, November 28, 2007
- DTM 08-027, Change-1, Security of Unclassified DOD Information on Non-DOD Information Systems, September 16, 2010
- National Institute of Standards and Technology Special Publication (NIST) 800-53, Revision 3, Recommended Security Controls for Federal Information Systems and Organizations, August 2009
- DOD Handbook 881, Work Breakdown Structures for Defense Materiel Items, 30 July 2005

DOD publications, directives, and instructions listed above are available at:

<http://www.dtic.mil/whs/directives/corres/pub1.html>

CJCS 6510.01E is available at:

http://www.dtic.mil/cjcs_directives/index.htm

NIST 800-53 is available at:

<http://csrc.nist.gov/publications/PubsSPs.html>

3.3 Facilities. No facilities specified.

4.0 GENERAL INFORMATION

4.1 – 4.2 All provisions of the Contract HTC711-10-D-S002 apply.

4.3 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB. Sustainment activity shall be conducted at a contractor facility not located within the

confines of Scott AFB, and on Scott AFB. To accommodate the contractor's on-site support personnel, the Government will provide controlled working space, phone, computer, fax, and connections to the NIPRNET or SIPRNET, as required, at no cost to the contractor for one FTE.

4.4 Travel.

Performance under this task order shall require contractor travel within the Continental United States (CONUS). The table below lists anticipated travel requirements. The Government will reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). All contractor travel shall be coordinated with and validated by the PM prior to incurring any travel expenses. Travel requests shall be submitted in writing at least five (5) business days in advance from the travel commencement date and shall consist of:

- Title, Purpose/Objective, Expected Outcome
- Date, Time (window), and Location
- Proposed Itinerary
- Proposed Meeting/Activities Agenda
- Number of Contractor Participants
- Desired Government Participants
- Requested Government Support
- Estimated Costs

The contractor shall identify personnel who will be traveling in sufficient time to obtain the lowest possible rates for airfare, rental car and lodging. Contractor invoices (along with associated receipts) shall support all travel reimbursement requests. The Government will not reimburse local travel and related expenses to the contractor for daily travel to or from the place of performance stipulated in each individual task order. Contractors shall not use General Services Administration city pair contracts.

ANTICIPATED CONTRACTOR TRAVEL

For estimating purposes, the Government anticipates the following trips (estimates include travel days) during the period of performance:

Origin	Destination	Duration (days)	Trip Description	No of People	Trips
Contractor location, if applicable	Scott AFB	4	IPR	3	1
Contractor location, if applicable	Scott AFB	4	UGM	3	1
Contractor location, if applicable	Scott AFB	4	AMP Training	2	4
Contractor location, if applicable	Scott AFB	4	Studies Support	2	1
Contractor location, if applicable	Scott AFB	3	Demo Support	1	1
Contractor location, if applicable	Scott AFB	4	Design Meeting	3	2

4.4.1 Trip Report. The contractor shall prepare and submit a trip report, including meeting minutes if applicable, following the conclusion of travel to the PM. Additionally, the contractor shall attach a copy of the report and minutes to the MSR. Trip report format shall comply with USTRANSCOM Pamphlet 33-2, Communication Guide.

Deliverable: Trip Report

4.5 Hours of Operation. Unless specified under individual task orders, normal duty hours are between 0730 and 1630, Monday through Friday, with the exception of Federal holidays. If on-site contractor personnel deem it necessary to work outside normal duty hours, it must be coordinated with the COR assigned to the task order. The following will be observed as Federal holidays: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, and Christmas Day. Note: Any of the above holidays falling on a Saturday shall be observed on the preceding Friday. Holidays falling on a Sunday shall be observed on the following Monday.

4.6 Other Direct Costs (ODC). The Government will reimburse allowable other direct costs (ODCs) incurred in the performance of this task order. ODCs may include, but are not limited to, software, group teleconferencing fees, and membership/conference fees. The primary or alternate COR will approve all ODCs prior to the incurring of any expenses. The contractor shall submit ODC requests in writing to the COR at least five (5) business days in advance of incurring any expenses. The request shall contain estimated costs. The contractor may be required to submit at least two quotes for high dollar value items. Contractor invoices (along with associated receipts) shall support all ODC reimbursement requests. Note: General and Administrative overhead charges will not be accepted or paid for approved ODC purchases.

4.7 Period of Performance. The period of performance for this task order is 1 Oct 2011 to 30 Sep 2012.

4.8 – 4.14 All provisions of the Contract HTC711-10-D-S002 apply.

4.15 Quality Assurance

The contractor shall support Government agency reviews and audits of all services and support provided under this PWS. The contractor shall support Quality Assurance reviews conducted by the Government. The Government reserves the right to authorize an independent verification and validation of the contractor's procedures, methods, data, equipment, and other services provided during the performance of this PWS.

4.16 Handling of Non-Public Information

In performance of this contract, the contractor may have access to sensitive, non-public information. The contractor agrees:

- a. To use and protect such information from unauthorized disclosure IAW DTM 08-027 - Security of Unclassified DOD Information on Non-DOD Information Systems, Incorporating Change 1, September 16, 2010, Attachment 2;
- b. To use and disclose such information only for the purpose of performing this contract and to not use or disclose such information for personal or commercial purpose;
- c. To obtain permission of the Government PM before disclosing/discussing such information with a third party;
- d. To return and/or electronically purge, upon Government request, all non-public, sensitive information no longer required for contractor performance;
- e. To advise the Government PM of unauthorized releases of such information;
- f. The contractor shall have its employees assigned to this contract execute a non-disclosure agreement for delivery to the Government. The Government will require contractor personnel to sign a non-disclosure agreement to protect non-public information of other contractors and/or the Government. Non-disclosure agreements are provided at Appendix C.

4.17 Acquisition Streamlining

IAW DFARS 252.211-7000, the contractor shall submit acquisition streamlining recommendations electronically. The Contracting Officer will provide more specific submission instructions upon award.

5.0 SECURITY (PHYSICAL, PERSONNEL, INFORMATION, ANTITERRORISM / FORCE PROTECTION AND INDUSTRIAL SECURITY)

5.1 General Security Information

The overall classification of work associated with this PWS will be at the *SECRET* level. Most of the work associated with this contract will be at the *SECRET* level.

Each task order will contain a DD 254 that will outline the security requirements for classified access to perform the deliverables and task orders in support of these contracts. All contract work associated with this PWS and all task orders deal directly with supporting current operations and decision making for the DPO for the DOD. An overall completed / signed DD 254 is attached to this PWS. Safeguarding of classified material at contractor locations is at the *SECRET* level. The safeguarding level must be approved in writing by Defense Security Service (DSS) before any classified will be stored at the contractor facility. All background investigation levels, access to classified areas and materials, assigned IT/Automated Data Processing (ADP) levels required by the Contractor and security stipulations for this classified contract (including any task orders assigned in the future) will be approved by one of the following: CO, COR or the functional manager, before the start of the contract or any task orders under this contract. The Contractor will not divulge any financial, planning, programming, or budgeting information without the express consent of the Government as outlined in OPSEC and Information Security regulations or be held liable for punitive damages incurred as a result of release of such information. The Contractor shall comply with all appropriate provisions of the applicable security regulations while assigned to this contract for DOD and USTRANSCOM.

5.2 Personnel Security Requirements

The Contractor's, subcontractors, and/or partner's personnel performing services under this contract shall be citizens of the United States of America. Dual citizens will not be authorized interim or final security clearance determinations within DOD. Any U.S. citizens who currently have (either expired or active) foreign passports will not be able to obtain or hold an interim/final security clearance determination within DOD; they are considered dual citizens. All Contractor personnel shall possess the appropriate personnel security investigation for the position(s) occupied as directed in section 5.1; these levels will be stipulated by the CO/COR or functional manager of the contract.

The following guidance will be followed when determining position sensitivity levels and background investigation levels for this contract depending on requirements and Task Orders:

POSITION LEVEL:

Information Technology (IT)-II,

Automated Data Processing (ADP)-II,

or Non-Critical Sensitive Positions (SECRET)

IT/ADP-II and Non-Critical Sensitive Positions are those positions that have: access to SECRET or CONFIDENTIAL information; Security police/provost marshal-type duties involving the enforcement of law and security duties involving the protection and safeguarding of DOD personnel and property; Category II-IT/ADP-II positions; duties involving education and orientation of DOD personnel; duties involving the design, operation, or maintenance of intrusion detection systems deployed to safeguard DOD personnel and property; any other position so designated by the head of the Component or designee.

BACKGROUND INVESTIGATION REQUIREMENTS:

(IT-II/ADP-II/Non-Critical Sensitive) Background Investigation Requirement for SECRET:

Positions designated by the Government at the Non-Critical Sensitive/ADP-II/IT-II rating require a National Agency Check with Local Credit (NACLC) (or acceptable periodic reinvestigation) favorably adjudicated (a favorable adjudication grants eligibility at the SECRET level as prescribed by DOD 5200.2-R). The IT-II/ADP-II requirement

mandates the Contractor have a minimum Facility Clearance Level (FCL) at the SECRET (or higher) level due to investigation submissions as directed in DOD 5220.22-M, DOD 5200.1-R and JPAS.

POSITION LEVEL:

Information Technology (IT)-III

Automated Data Processing (ADP)-III

Non-Sensitive Positions (POSITION OF TRUST DETERMINATION) (NO CLASSIFIED ACCESS):

All other positions involved in computer activities and Common Access Card (CAC). No clearance is granted for classified access and only a Position of Trust (PoT) is awarded and posted in the JPAS.

BACKGROUND INVESTIGATION REQUIREMENTS:

(IT-III/ADP-III/Non-Sensitive) Background Investigation Requirements for POSITION OF TRUST Determinations (NO CLASSIFIED ACCESS):

Positions designated by the Government at the Non-Sensitive/ADP-III/IT-III rating require a National Agency Check with Inquiries (NACI) (or acceptable investigation/reinvestigation) favorably adjudicated (a favorable adjudication issues a Position of Trust determination as prescribed by DOD 5200.2-R and DOD DTM 08-003. Favorable NACI or equivalent investigation results must be posted in JPAS before a CAC or NIPRNET access will be granted. To obtain interim CAC/NIPRNET access, NACI investigations will be opened with fingerprint, name and criminal records checks returned favorably before the credentials (CAC and NIPRNET) are issued. NACI submissions will be completed on the Standard Form (SF) 85P and submitted with fingerprint cards (FP 258) to USTRANSCOM Security Service Center (SSC) for processing. No classified access will be granted based on the NACI investigation.

NOTE: The above requirements for IT-III/ADP-III/Non-Sensitive Positions cover access to unclassified systems only. Contractors who require access to classified systems or areas must have interim or final adjudication of background investigations at the Non-Critical Sensitive and Critical Sensitive levels.

USTRANSCOM only processes NACI/PoT investigations and does not complete any personnel security investigations for classified access. It is incumbent upon the Contractor to have the appropriate investigations completed upon start of the contract. Personnel who do not have the proper investigation will be denied access to USTRANSCOM facilities until investigations have been favorably adjudicated.

5.3 Facilities Clearance Level

The Contractor must have a valid FCL at the SECRET level (or higher). Interim FCLs are acceptable provided they are not expired. FCL procedures and security guidelines for adjudicative requirements are outlined in DOD 5220.22-M and DOD 5200.2-R. FCLs and Interim FCLs must be awarded by the DSS. Any safeguarding levels required for this awarded company may be at the SECRET level or as directed by the task order DD 254 and inspections for this will be performed by DSS during normal inspection cycles.

5.4 Personnel and Facilities Clearance Validation

Upon contract award or task order award, the Contractor will submit the names of contract personnel to the USTRANSCOM SSC for vetting through JPAS to ensure investigative and clearance requirements have been satisfied. If a Contractor's employee does not have the required eligibility determination level based on the Government's determination, the Contractor's personnel will be denied the ability to work in support of this contract and the employee's information will not be loaded into Contractor Verification System (CVS) for the purpose of obtaining a CAC or be given classified material.

5.5 CAC Issuance Procedures

Upon notification by USTRANSCOM SSC that contractor personnel meet the required investigative and clearance levels, the personnel will be loaded in CVS for an expiration on their CAC for the base year, plus two option years, for a three year total, if the contract is fully funded. If the contract is not fully funded or funded on a yearly basis requiring recertification of funding by USTRANSCOM TCAQ/TCJ8, CACs will only be loaded for the current period of performance. All checks outlined in section 5.4 will be completed before the CO, COR, functional manager or trusted agent (TA) accesses the DOD CVS and submits the request for issuance of the CAC to the contractor's personnel.

5.6 Scott Air Force Base/USTRANSCOM Physical Access

Upon receipt of the CAC, permanently assigned contract personnel located at USTRANSCOM at SAFB, IL, may obtain the AF 1199 (Restricted Area Badge) if the employee meets the requirements set forth in the SAFB Instruction 31-101. This stipulates that personnel who request AF 1199's be assigned physically on SAFB at least four (4) days a week with a desk computer and phone before a AF 1199 will be issued. The Government will provide unrestricted access to facilities, consistent with security clearance and need to know, necessary for the on-site personnel to perform their work IAW the contract or task order. Contractor personnel assigned on-site at USTRANSCOM will wear the black contractor lanyard (provided by the Government at no cost) and display the Restricted Area badge at all times while in Government facilities. Visits to SAFB by contractor personnel who do not possess the CAC will be facilitated by the COR/CO sponsoring the employee through the online base access system.

5.7 Visits to USTRANSCOM Buildings

The following visit procedures apply; note that different a JPAS Security Management Office (SMO) code will be used depending upon the type of visit.

- **General Visits:** Any visit(s) by contractor personnel not permanently assigned to this contract (i.e., company presidents, company security managers, contractor personnel not permanently assigned at SAFB, etc.) require an electronic visit request be submitted using JPAS. JPAS visits can be forwarded to the Security Management Office (SMO) code: USTC-SDDC. The visit request will annotate the contract number in the POC block of the visit request and the name/phone number of either the CO or COR in the phone number block.
- **Permanently Assigned Contractors:** Permanently assigned contractor employees on SAFB will require a visit request for the current period of performance posted in JPAS to SMO: SSC-CONT. The visit request will annotate the contract number in the POC block of the visit request and the name/phone number either of the CO or COR in the phone number block. Upon in-processing permanently assigned contractors will require a copy of the DD 254 for this overall contract or task order to show the classified access level for this contract and to assist in assigning permissions on restricted area badges.

5.8 Security Training

Contract personnel physically assigned to USTRANSCOM/TCCs at SAFB shall attend/complete security training as prescribed by DOD, USTRANSCOM, and Air Force instructions. At a minimum, this includes Employee Initial Security Training, Annual Security Awareness Training, Operations Security (OPSEC), DOD Antiterrorism Level 1 Training, Personally Identifiable Information (PII) Training and any Security Stand-Down Day Training scheduled by the Commander, USTRANSCOM. Contract personnel assigned elsewhere shall attend security training established by their respective Government security offices and/or installations requirements.

5.9 Additional Security Conditions

All contractors assigned to USTRANSCOM/SDDC on SAFB will complete the contractor in-processing checklist before the start of working on this or any contract in USTRANSCOM. Contractor personnel shall complete the out-

processing checklist on the last day of the contract or upon termination or reassignment from duties under this contract. Upon completion of this contract, the contractor's personnel shall surrender all Government supplies, materials and equipment to the COR. All contractor personnel assigned to this contract who possess CAC cards shall return those cards to the SSC when completing out-processing. No CAC's or AF 1199 (Restricted Areas badges) will be turned into the contract company. Contractor personnel physically working at USTRANSCOM at SAFB, IL, shall complete a security debriefing statement (SF 312) upon completion of the contract.

The Government will ensure the roles/privileges assigned to contractor personnel on the Government computing platforms are limited to the roles/privileges essential to that individual's performance of his/her assignments. The Government may limit or revoke these roles or privileges for any reason.

5.10 Derogatory Information

If the Government notifies the Contractor that the employment or the continued employment of any contractor personnel is prejudicial to the interests or endangers the security of the United States of America, that employee shall be removed and barred from the worksite. This includes security deviations/incidents and credible derogatory information on contractor personnel during the course of the contract's period of performance as noted in JPAS. Personnel who have incident reports posted in JPAS will be denied the ability to support the contract until the issues have been resolved and the incident has been removed in JPAS. The Contractor shall make any changes necessary in the appointment(s).

USTRANSCOM Force Protection (Industrial Security) Points of Contact:

Patrick Collins or Steven Strait
508 Scott Drive
Security Services Center (SSC)
Scott AFB IL 62225
Commercial: 618-220-6551/8287
Email at Patrick.Collins@ustranscom.mil or Steven.Strait@ustranscom.mil

USTC FP Approval: (*NAME OF APPROVER, DATE of DD-255*)

DD 254 is attached

USTC FP Tracking #: **USTRANSCOM-FP** (*TRACKING NUMBER PROVIDED BY TCJ3-FP*)

(overall contract, task orders will be marked accordingly)

Security Regulation Guidance:

Department of Defense (DOD): Reference Paragraph 3.2

USTRANSCOM: Reference Paragraph 3.2

- Scott Air Force Base: SAFB Instruction 31-101 (Installation Security Instruction)

(Restricted publication. Sent only to .mil domains when forwarding. Not for public distribution.)

Forms: DD 254, DOD, Contract Security Classification Specification

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
000101	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
000201	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
000301	Destination	Government	Destination	Government
0004	Destination	Government	Destination	Government
0005	Destination	Government	Destination	Government
0006	Destination	Government	Destination	Government
000601	Destination	Government	Destination	Government
0007	Destination	Government	Destination	Government
000701	Destination	Government	Destination	Government
0008	Destination	Government	Destination	Government
000801	Destination	Government	Destination	Government
0009	Destination	Government	Destination	Government
0010	Destination	Government	Destination	Government
0011	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000101	N/A	N/A	N/A	N/A
0002	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000201	N/A	N/A	N/A	N/A
0003	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000301	N/A	N/A	N/A	N/A
0004	N/A	N/A	N/A	N/A
0005	N/A	N/A	N/A	N/A
0006	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000601	N/A	N/A	N/A	N/A

0007	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000701	N/A	N/A	N/A	N/A
0008	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000801	N/A	N/A	N/A	N/A
0009	N/A	N/A	N/A	N/A
0010	N/A	N/A	N/A	N/A
0011	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.FD50 6F2 70AB 12901 G04N70 70210 00000F 387700 F87700

AMOUNT: \$1,086,663.96

CIN 000000000000000060500: \$986,612.26

CIN 000000000000000060502: \$63,177.90

CIN F3ST951234A0010005: \$26,873.80

CIN F3ST951234A0010006: \$10,000.00

AB: 97X4930.FD50 6F2 70AB 24901 G04N70 70110 00000F 387700 F87700

AMOUNT: \$1,815,573.24

CIN 000000000000000060501: \$1,511,916.64

CIN 000000000000000060503: \$303,656.60

CLAUSES INCORPORATED BY REFERENCE

252.204-0001

Line Item Specific: Single Funding

SEP 2009

WAWF INSTRUCTIONS**WIDE AREA WORKFLOW – RECEIPT AND ACCEPTANCE (WAWF-RA)
ELECTRONIC RECEIVING REPORT AND INVOICING INSTRUCTIONS**ACQUISITION POINTS OF CONTACT

Ms. Lisa A. Gross, Contracting Officer

USTRANSCOM/AQ-DPO

PHONE: 618-220-7061

Lisa.Gross@ustranscom.mil

Mr. Tristan Tikkanen, Contract Specialist

USTRANSCOM/AQ-DPO

PHONE: 618-220-7136

Tristan.Tikkanen@ustranscom.milCONTRACTING OFFICER'S REPRESENTATIVES (COR)

Mr. Ruben Ruiz, Primary

USTRANSCOM/AQ

PHONE: 618-256-6763

Ruben.Ruiz@ustranscom.mil

IN ACCORDANCE WITH DFARS 232.7002, USE OF ELECTRONIC PAYMENT REQUESTS IS MANDATORY. USE OF WAWF WILL SPEED UP YOUR PAYMENT PROCESSING TIME AND ALLOW YOU TO MONITOR YOUR PAYMENT STATUS ONLINE. THERE ARE NO CHARGES OR FEES TO USE WAWF.

Requests for payments must be submitted electronically via the Internet through the Wide Area WorkFlow – Receipt and Acceptance (WAWF-RA) system at <https://wawf.eb.mil>.

Questions concerning payment should be directed to the Defense Finance Accounting Services (DFAS) Limestone at (800) 756-4571 or faxed to (866) 392-7971 or e-mailed to cco-af-vpis@dfas.mil. Please have your order number and invoice number ready when contacting DFAS about payment status. You can also access payment information using the DFAS myInvoice web site at <https://myinvoice.csd.disa.mil/index.html>

**THE FOLLOWING CODES WILL BE REQUIRED TO ROUTE YOUR RECEIVING REPORTS,
INVOICES AND ADDITIONAL E-MAILS CORRECTLY THROUGH WAWF.**

CONTRACT NUMBER	HTC711-10-D-S002
DELIVERY ORDER NUMBER	0007
TYPE OF DOCUMENT	COST VOUCHER
CAGE CODE	3U6L5
ISSUE BY DODAAC	HTC711
ADMIN DODAAC	HTC711
INSPECT BY DODAAC	HTC711
DCAA AUDIT DODAAC	HAA813
SERVICE ACCEPTOR / SHIP TO	HTC711
SEND EMAIL NOTIFICATIONS TO:	
CONTRACT ADMINISTRATOR	TRISTAN TIKKANEN@USTRANSCOM.MIL
CONTRACTING OFFICER REPRESENTATIVES	RUBEN.RUIZ@USTRANSCOM.MIL
	DCAA-FAO2151@DCAA.MIL

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF 40

1. CONTRACT/PURCH ORDER/ AGREEMENT NO HTC711-10-D-S002		2. DELIVERY ORDER/ CALL NO 0007		3. DATE OF ORDER/ CALL (YYYYMMDD) 2011 Oct 01		4. REQ / PURCH REQUEST NO F3ST951234A001		5. PRIORITY				
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357				7. ADMINISTERED BY (if other than 6) SEE ITEM 6		8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)						
9. CONTRACTOR RAYTHEON BBN TECHNOLOGIES CORP EILEEN NAYLOR AND 10 MOULTON ST ADDRESS CAMBRIDGE MA 02138-1119				FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED				
14. SHIP TO USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST, BLDG 4038 SCOTT AFB IL 62225-5357				15. PAYMENT WILL BE MADE BY DFAS-LIMESTONE DEAMS - F87700 ACCTG DISB STA NR 387700 DFAS DEAMS 27 ARKANSAS RD LIMESTONE ME 04751-6216		13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15						
16. TYPE OF ORDER		DELIVERY/ CALL		X		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract						
		PURCHASE				Reference your quote dated Furnish the following on terms specified herein REF P11385-BBN						
ACCEPTANCE, THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.												
NAME OF CONTRACTOR				SIGNATURE		TYPED NAME AND TITLE		DATE SIGNED (YYYYMMDD)				
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:												
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule												
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES			20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT		22. UNIT PRICE		23. AMOUNT	
		SEE SCHEDULE										
* If quantity accepted by the Government is same as quantity ordered indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle				24. UNITED STATES OF AMERICA TEL: 618-226-7061 EMAIL: Lisa.Gross@ustrancom.mil BY: LISA A. GROSS				25. TOTAL \$2,902,237.20		26. DIFFERENCES		
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED												
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE						e. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE				
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE						28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS		
f. TELEPHONE NUMBER		g. E-MAIL ADDRESS				<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR		
36. I certify this account is correct and proper for payment.						31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		34. CHECK NUMBER		35. BILL OF LADING NO.		
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER				40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.		42. S/R VOUCHER NO.		
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)								

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	Labor (Operating) LH CLIN 0001 – Labor (Operating) PWS Specific Tasks: 1.3.1, 1.3.1.1, 1.3.1.2, 1.3.1.3, 1.3.1.4, 1.3.1.7, 1.3.1.8, 1.3.2., 1.3.3., 1.3.4, 1.3.6, 1.3.7, 1.3.9.1, 1.3.9.2, 1.3.9.3, 1.3.9.4, 1.3.9.5, 1.3.9.6, 1.3.9.7, 1.3.9.8, 1.3.10.1, 1.3.10.2, 1.3.10.3, 1.3.10.5, 1.3.10.6, 1.3.10.7, FOB: Destination SIGNAL CODE: A	986,612.26	Lot	\$1.00	\$986,612.26 NTE
				TOT ESTIMATED PRICE	\$986,612.26 NTE
				CEILING PRICE	\$0.00
000101	Funding for CLIN 0001 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST951234A001 SIGNAL CODE: A		Lot		
				TOT ESTIMATED PRICE	\$0.00 NTE
				CEILING PRICE	\$0.00
	ACRN AA CIN: 000000000000000060500				\$986,612.26

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	Labor (Capital) LH CLIN 0002- Labor (Capital) - LH PWS Specific Tasks: 1.3.5.1, 1.3.5.2, 1.3.5.3, 1.3.11.68, 1.3.11.69, 1.3.11.69.1, 1.3.11.69.2, 1.3.11.69.3, 1.3.11.69.4, 1.3.11.70, , 1.3.11.72.1, 1.3.11.72.3. FOB: Destination SIGNAL CODE: A	1,511,916.64	Lot	\$1.00	\$1,511,916.64 NTE
TOT ESTIMATED PRICE					\$1,511,916.64 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
000201	Funding for CLIN 0002 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST951234A001 SIGNAL CODE: A		Lot	\$0.00	\$0.00 NTE
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00
ACRN AB CIN: 000000000000000060501					\$1,511,916.64

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	Cyber Security (Operating) LH CLIN 0003 –Cyber Security (Operating) -LH PWS Specific Tasks: 1.3.8.1.1, 1.3.8.1.1.1, 1.3.8.1.1.2, 1.3.8.1.1.3, 1.3.8.1.2, 1.3.8.1.3, 1.3.8.1.4, 1.3.8.2, 1.3.8.3.9, 1.3.8.3.10 FOB: Destination SIGNAL CODE: A	63,177.90	Lot	\$1.00	\$63,177.90 NTE
TOT ESTIMATED PRICE					\$63,177.90 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
000301	Funding for CLIN 0003 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST951234A001 SIGNAL CODE: A		Lot	\$0.00	\$0.00 NTE
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00
ACRN AA CIN: 000000000000000060502					\$63,177.90

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	Requirements Management (Optional Task) LH CLIN 0004 (Optional)- Requirements Management (Operating)- LH. PWS Specific Tasks: 1.3.3.1 and 1.3.3.3 CLIN Amount: \$84,094.56 FOB: Destination SIGNAL CODE: A				
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005	Cyber Security (Optional Task) LH CLIN 0005 (Optional)- Cyber Security (Operating)- LH. PWS Specific Tasks: 1.3.8.3.1, 1.3.8.3.2, 1.3.8.3.3, 1.3.8.3.4, 1.3.8.3.5, 1.3.8.3.6. FOB: Destination SIGNAL CODE: A				
TOT ESTIMATED PRICE					\$0.00 TBN
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006	Labor (Capital) LH CLIN 0006 - Labor (Capital)- LH. PWS Specific Tasks: 1.3.11.72.2, FOB: Destination SIGNAL CODE: A	303,656.60	Lot	\$1.00	\$303,656.60 NTE

TOT ESTIMATED PRICE	\$303,656.60 NTE
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CEILING PRICE	\$0.00
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ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
000601	Funding for CLIN 0006 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST951234A001 SIGNAL CODE: A		Lot	\$0.00	\$0.00 NTE

TOT ESTIMATED PRICE	\$0.00 NTE
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CEILING PRICE	\$0.00
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ACRN AB	\$303,656.60
CIN: 00000000000000060503	

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0007	Travel - Cost COST Travel, in accordance with the Federal Travel Regulations. FOB: Destination SIGNAL CODE: A		Lot		\$26,873.80

ESTIMATED COST	\$26,873.80
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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000701			Lot		\$0.00

Funding for CLIN 0007

COST

FOB: Destination

PURCHASE REQUEST NUMBER: F3ST951234A001

SIGNAL CODE: A

ESTIMATED COST	\$0.00
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ACRN AA

\$26,873.80

CIN: F3ST951234A0010005

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0008			Lot		\$10,000.00

ODC - Cost

COST

FOB: Destination

SIGNAL CODE: A

ESTIMATED COST	\$10,000.00
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ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
000801			Lot		\$0.00

Funding for CLIN 0008

COST

FOB: Destination

PURCHASE REQUEST NUMBER: F3ST951234A001

SIGNAL CODE: A

ESTIMATED COST	\$0.00
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ACRN AA

\$10,000.00

CIN: F3ST951234A0010006

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0009	Labor (Optional Task) LH CLIN 0009 (Optional) - Labor (Capital)- LH. PWS Specific Tasks: 1.3.11.72.4 CLIN Amount: \$184,608.20 FOB: Destination SIGNAL CODE: A		Lot		
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0010	Labor (Optional Task) LH CLIN 0010 (Optional) – Labor (Capital)- LH. PWS Specific Tasks: 1.3.11.71 CLIN Amount: \$270,258.40 FOB: Destination SIGNAL CODE: A		Lot		
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
0011	Labor (Optional Task) LH CLIN 0011 (Optional) – Labor (Operating) – LH PWS Specific Tasks: 1.3.10.4 and 1.3.10.8 CLIN Amount: \$124,536.24 FOB: Destination SIGNAL CODE: A				
TOT ESTIMATED PRICE					\$0.00 NTE
CEILING PRICE					\$0.00

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT**PERFORMANCE WORK STATEMENT****FOR****TASK ORDER (TO) 0007****ANALYSIS OF MOBILITY PLATFORM (AMP)****19 August 2011****1.0 DESCRIPTION OF SERVICES**

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses.

1.2 Scope. This Performance Work Statement (PWS) contains requirements in support of AMP development for FY12 in the following areas: AMP hardening and air refueling. In addition, this PWS contains requirements for sustainment of the AMP Federation of models throughout FY12. Contract HTC711-10-D-S002 is incorporated by reference.

1.3 Specific Tasks. The specific task areas with associated subtasks to be performed are identified as: Contract Management, Studies Support, Requirements Management, Maintenance, Design and Development, Application Administration, AMP Federation Model User Training, Security Engineering and Cyber Security Requirements, Configuration Management, Enhancements, and New Development.

1.3.1 Task Area 1 – Contract Management. This task area shall encompass overall contract management to include administrative, clerical, documentation, and related functions during the period of performance of this task order. The contractor shall designate an individual from the contractor's resources to be the focal point for all contract management communications with USTRANSCOM, and to be responsible for ensuring successful accomplishment of PWS tasks. Point of contact (POC) information for the Contract Manager and alternate(s), who shall act for the contractor when the Contract Manager is absent, to include name, title, phone number, and e-mail address, shall be provided to the Contracting Officer at the Post-Award Conference.

The contractor shall ensure all personnel assigned to this contract meet the minimum requirements specified in the contractor's proposal, IAW the generic resumes provided as part of the contractor's staffing approach. The contractor shall notify the CO in writing of changes to personnel within three (3) business days after information is known.

1.3.1.1 Task Area 1 Subtask 1 - Task Order Management Plan (TOMP). The contractor shall prepare a TOMP that describes tasks, dependencies, management and technical approach, organizational resources, and management controls to be employed to meet cost, performance and schedule requirements throughout contract execution for all task orders issued during the period of performance of this task order. The TOMP shall include the contractor's approach to plan for, identify, monitor, and control risk in all phases of this effort. The TOMP also shall include a Work Breakdown Structure (WBS) that defines resources and dependencies. In addition, the TOMP shall include a description of the contractor's requirements management process. The contractor shall update the TOMP after receipt of each subsequent task order received during the period of performance of this task order.

Deliverable: TOMP

1.3.1.2 Task Area 1 Subtask 2 - Monthly Status Reports (MSR). The contractor shall submit an MSR summarizing overall status, progress, and recommendations and shall include details and results of the work performed during the reporting period, identifying any issues, problem areas, and items that require Government action; work planned for the next month; change request and problem report evaluations, as necessary; dates and locations of IPRs conducted; hours performed on each Contract Line Item Number (CLIN) by labor category; actual

and projected expenditures; meetings attended, with a summary of relevant items discussed; cost, schedule and/or performance variance that includes a description of how the variances were determined; risk assessment and mitigation recommendations; open issues; a list of deliverables provided; and key personnel (e.g., project manager, lead developer, lead engineer) changes. Estimated and actual travel costs shall be reported, together with contractor name, trip location and purpose, and dates of travel. The MSR shall include copies of invoices for all travel performed during the reporting period.

Deliverable: MSR

1.3.1.3 Task Area 1 Subtask 3 - In-Process Reviews (IPRs). The contractor shall conduct and/or host IPRs on a twice-yearly basis or as the program manager (PM) requires. The PM will determine dates and whether IPRs will be held at the contractor's site, at USTRANSCOM, via video teleconference, web-cast, or conference call. IPRs shall summarize status, progress, new capability requirements and program schedule to include new requirements, risk identification, and proposed remediation plan in any task area. The contractor shall prepare presentation materials and provide them to the PM in accordance with the schedule in the deliverable table in Paragraph 1.4. Following the IPR, and in accordance with the schedule in the deliverable table in Paragraph 1.4, the contractor shall submit minutes of the IPR to include date, IPR location, a list of attendees, a record of activity; decisions made; and an action items list that includes a description of the action item (AI), the primary person or organization responsible for accomplishing the AI, and an estimated completion date.

Deliverables: Presentation Materials, IPR Meeting Minutes

1.3.1.4 Task Area 1 Subtask 4 - Integrated Management Schedule (IMS). The contractor shall develop and deliver to the PM an IMS in Microsoft Project format that provides a schedule for all major milestones as currently tasked to the contractor. It shall also include anticipated future work to support schedule and workload de-confliction. The IMS shall include a high-level Master Schedule which lists the major milestones and completion dates associated with each. The IMS shall also include sub-tasks necessary to achieve the milestone and scheduled completion dates for each sub-task. The IMS delivered to the government shall address development, test, and deployment for software releases containing approved new system capabilities, and shall show the critical path. The contractor shall keep this schedule current, making schedule changes as necessary after coordinating these changes with the PM. The IMS shall be delivered with the MSR, or when circumstances necessitate a change to the schedule, whichever occurs first.

Deliverable: IMS

1.3.1.5 Reserved.

1.3.1.6 Reserved.

1.3.1.7 Task Area 1 Subtask 7 - Demonstration Support. At Government request, the contractor shall perform up to five demonstrations of software releases of any type at AMP IPRs, AMP User Conferences, or other venues. The contractor shall conduct technical presentations or demonstrations to USTRANSCOM, other Department of Defense (DOD) commands, or other AMP users. The contractor shall support presentations or demonstrations at other venues when required by the PM. This support may include but is not limited to scenario and system set-up and other subject matter expert support.

1.3.1.8 Task Area 1 Subtask 8 – Teleconferences. The contractor shall participate in weekly telephone conferences with the PM to provide current status of all tasks.

1.3.2 Task Area 2 - Studies Support. The contractor shall support planning and execution of analytical studies such as the Defense Program Guidance's Mobility Capabilities and Requirements Studies and Quadrennial Defense Review. This may require software modifications, analysis of study requirements and products, and on-site support. As appropriate to the specific study, the contractor shall work with other model development contractors to define upgrades and enhancements to software of AMP and the other models, and coordinate release and testing schedules. The contractor shall make necessary modifications to AMP and

shall enhance the graphical user interfaces (GUI) and/or charts as directed by the PM. The contractor shall conduct integration and testing, and perform trouble-shooting to repair or modify software problems identified during model execution.

1.3.3 Task Area 3 - Requirements Management. The contractor shall be responsible for facilitation and administration of the AMP requirements management process. The contractor shall comply with sub-paragraphs 1.3.3.2 and 1.3.3.4 below, pending award of the options designated below.

1.3.3.1. (Option) When available, the contractor shall utilize the Government's Requirement Management Tool (RMT) to input, track, trace, and manage requirements and supporting documentation. The Government's RMTs are composed of IBM's Rational RequisitePro, ClearQuest, and ClearCase. The Government shall provide the contractor access to these tools and the contractor employees shall be familiar with use of these tools. The Government will not provide IBM Rational RequisitePro, ClearQuest, and ClearCase training to the contractor. The Government will maintain and use these tools to monitor the requirements management process.

1.3.3.2. The contractor shall follow a contractor-provided internal requirements management process and use tools that can transition to the Government's RMTs to input, track, trace, and manage requirements and supporting documentation.

1.3.3.3. (Option) The contractor shall have thirty (30) business days to transition to the Government-sponsored environment when the Government-provided tools become available. The end state will have all open and historical baselines and requirements loaded into the RMTs. The contractor shall load the current baseline and any open requirements within the first 30-business day transition period. The contractor shall have one hundred and twenty (120) business days to transition all historical baselines and requirements into the RMTs.

1.3.3.4. The contractor shall manage the activities necessary to receive, verify, analyze, refine, and confirm requirements provided by the PM. The contractor shall also manage the activities necessary to maintain the AMP requirements baseline, track requirements status, maintain requirements versions, maintain requirements attributes, control requirement quality and consistency, perform change impact analysis, and provide reports.

The contractor shall assess each requirement and provide an impact assessment that includes an analysis of level of effort, impacts to program costs and program schedule.

Deliverable: Requirement Impact Assessment

1.3.4 Task Area 4– AMP Software Maintenance (includes AMP-PAT). The contractor shall correct problems that AMP users encounter with the software, and shall conduct unit, integration, and regression testing of these fixes. The contractor shall maintain the Federation data objects and run infrastructure, and adapt to changes in the component models.

The contractor shall:

- **Facilitate and administer the AMP problem reports management process.**
- **Code, test, document, and support full integration of software and software releases.**
- **Propose release content and schedules based upon software maintenance priorities directed by the AMP Configuration Control Board (CCB).**
- **Provide software level of effort, cost, and schedule estimates, and include justification and confidence level behind the estimates.**
- **Designate a lead engineer for the software engineering and technical interactions with USTRANSCOM.**
- **Provide configuration management (CM), quality assurance (QA), and documentation for all AMP software.**

1.3.5 Task Area 5 – Design and Development. The contractor shall design, develop, and conduct unit, integration, and regression testing of new capability for the AMP application. The contractor shall continue

to design, develop, test and apply required security features. The GUI will include mechanisms for configuring and running AMP models. The GUI development shall be compliant with USTRANSCOM Enterprise Architecture (EA) standards. The design of the GUI shall be performed iteratively, in conjunction with USTRANSCOM analysts and other AMP users. The AMP infrastructure shall be extensible to meet future USTRANSCOM needs. The AMP infrastructure shall be compliant with USTRANSCOM EA standards. The contractor shall maintain and expand the Federation application programming interface (API) and the data model.

The contractor shall develop and test new functional capabilities of the application and fixes to problems with the application. The contractor shall:

- Design, code, test, document, and support full integration of software and software releases, assessments and prototypes supporting application development.
- Propose release content and schedules based upon Government requirements and priorities directed by the AMP CCB.
- Provide necessary models and simulations to support the verification, validation, and authentication (VV&A) process.
- Provide software size, cost, and schedule estimates, and include justification and confidence level behind the estimates.

1.3.5.1 Task Area 5 Subtask 1 – Software Development. In addition to the requirements of Task 1.3.5, the contractor shall provide CM, QA, and documentation for all AMP software. The contractor shall ensure that the AMP software is developed to be compatible with the current and any projected USTRANSCOM software configurations (e.g., United States Air Force (USAF) Standard Desktop Configuration (SDC), network, security, Internet browser). The Government will furnish the contractor with the approved USTRANSCOM software configurations. The contractor shall provide a Software Requirements Specification (SRS) that describes the user's functional requirements in detail and in a form that will support design and development of software to satisfy these requirements. USTRANSCOM PMO will review and approve the SRS prior to contractor implementation.

Deliverables: Software Requirements Specification

1.3.5.2 Task Area 5 Subtask 2 – Software Testing. For each scheduled release, the contractor shall support Government participation in test events that include Government Witness Testing (GWT) and User Acceptance Testing (UAT) of the software to ensure it is validated and verified against the provided requirements and/or problem reports. The purpose of GWT is to observe contractor testing of the software planned for use during UAT. The contractor shall identify and track deficiencies discovered during UAT, but shall not issue a new version of software for continuation of UAT without PM approval. In accordance with PM and FM prioritization and PM direction, the contractor shall resolve these deficiencies and present another software version for either GWT or UAT.

1.3.5.2.1. The contractor shall prepare a Software Test Plan that describes the developer's test methodology and traces requirements from contractual and/or requirements documentation through to test cases. The contractor shall create test cases that shall provide detailed test instructions, any pre-conditions or inputs, and expected results for each requirement. This plan also shall address the contractor's plan to conduct regression testing on changes made to COTS components and application software components. In addition, the contractor shall provide documentation that records the status and results of the contractor's test efforts. The Software Test Plan, Test Cases, and Test Reports shall be delivered in accordance with the deliverable table in Paragraph 1.4. The contractor shall conduct a Test Readiness Review (TRR) before GWT commences and an Operational Readiness Review (ORR) before UAT commences. The goals of these reviews are to confirm the readiness of the application and test infrastructure (e.g., test environment and documentation) to start each test event, to identify the proper exit criteria necessary to complete each test event, and obtain Government approval to proceed toward the next milestone leading ultimately to software fielding.

For maintenance releases, the contractor shall conduct a regression test of the revised software to ensure the software changes do not degrade the system operation. The results of the regression test shall be briefed at the TRR.

Deliverables: TRR/ORR Slides

1.3.5.2.2 The TRR shall at a minimum, address the following topics, issues and events:

- Test methodology to verify contents of the release
- Software Problem Reports (SPR) contained in the release
- Review of all formal test documentation (requirements traceability matrix (RTM), test cases, test plans)
- Verification of the availability of all necessary personnel, forms, equipment, software, and support material, and/or data for the test to be performed
- Review that all new requirements are mapped to test cases
- Confirm that each SPR has a test case developed against it, or provision of reason why one has not been developed
- Verification that test procedures have been reviewed and recommendations incorporated into the appropriate documentation
- Results of regression testing

1.3.5.2.3. Once the software is delivered to the Government for UAT, the contractor shall not implement changes to the software baseline under test until the Government has completed (or postponed) testing, prioritized software or test problem reports, and has accepted the change(s) proposed to resolve the problem(s). After completion of UAT, the contractor shall conduct a Production Readiness Review (PRR) that demonstrates readiness of the application and infrastructure to support fielding to the production environment, and to obtain a fielding decision from the Government.

Deliverable: PRR Slides

1.3.5.2.4. If the contractor uses automated test scripts to verify software problem fixes for a software version entering a scheduled test event involving Government participation, the contractor shall provide a user-readable version of the automated test script(s) and expected test result(s) for each test case; these shall be included in the Software Test Cases deliverable. The contractor shall provide the results of automated testing of the software build to be used at the start of scheduled test events, and any builds occurring during scheduled test events. The contractor shall include these automated test result(s) as an addendum to the STR.

1.3.5.2.5. The contractor shall meet all government specifications for each requirement at each release. The PM will make the final decision whether or not to accept all software. Deficiencies will be documented, prioritized, tracked, and may result in non-acceptance of the software release by the Government. The software shall be resubmitted for testing and only accepted by the Government once it successfully passes government testing. In this contract, deficiencies are defined as the difference between the functional specifications stated by the Government and the capability provided in the software being delivered to the Government. The contractor agrees not to charge any amount of cost to this or any other Government contract pertaining to the resolution/correction of software deficiencies resulting from the contractor's own development efforts under this contract. The contractor agrees that resolution of such deficiencies shall be at no cost whatsoever to the Government.

Deliverables: Software Test Plan, Software Test Cases (includes User-Readable Version of Automated Test Script(s) and Expected Test Result(s) for each test case, as applicable), Software Test Reports

1.3.5.3 Task Area 5 Subtask 3 – AMP Software Releases. **The provisions of the corresponding paragraph in Task Order 0007 shall apply to each paragraph below that requires a software release as a deliverable. During the period of performance of this Task Order, the contractor shall provide two (2) minor releases and up to three (3) scheduled maintenance releases and up to six (6) emergency releases that may occur between regularly scheduled releases. Several of the enhancements described in Paragraph 1.3.11 require the developer to deliver software releases. The following pertains:**

Each release must undergo Information Assurance (IA) review to determine the degree to which the changes incorporated into the software impact the security or hardware architectures of the system, or include the implementation of a new operating system, database, or interface (other criteria may apply.) This review is referred to as the certification and accreditation (C&A) process. The contractor shall assist the Government in achieving software acceptance through the USTRANSCOM security C&A process by accomplishing tasks described in Paragraph 1.3.8. Successful completion of this C&A process will result in the issuance by the Designated Accrediting Authority (DAA) of an Approval to Operate (ATO).

Version numbering shall be consistent with the description contained in the Government Configuration Management Plan (CMP).

The contractor shall update the User Guide to provide USTRANSCOM functional personnel appropriate guidance for system operation.

The contractor shall follow the software release process addressed in the Government AMP CMP. The contractor also shall deliver software source code with each release. Using the processes described in the PMO's AMP CMP, the PMO's AMP CCB will determine the contents of each software release after consideration of developer's recommended release contents and the functional user's priorities.

The contractor shall deliver a software Version Description Document (VDD), following the configuration management procedures described in Paragraph 1.3.9, and not later than the deliverable due date stipulated in Paragraph 1.4.

Deliverables: VDD, Software Release, Updated User Guide, Software Source Code

1.3.6 Task Area 6 – Application Administration. The contractor shall provide on-site application support to USTRANSCOM functional users for the system. This includes the following activities:

- Plan, schedule and install new or modified software, to include application patches and updates. Troubleshoot AMP installation problems.
- Support installation, optimization, backup, recovery, modification and upgrade of software. Debug AMP software and support testing of the application (e.g., support of UAT, USTRANSCOM Test Lab, installation of the application on 64-bit workstations, Host Based Security System).
- Provide technical support for system reengineering efforts.
- Keep information located on the AMP webshare site current, including keeping the web pages updated with the latest downloadable AMP software releases, sample data, and AMP User Group materials
- Work with Government security and networking personnel on application-related issues.
- Support the Technical Assessment activities and provide required updates.

The contractor shall update the application administration manual to support the system. The contents of the manual shall include account administration; software installation; obtaining, generating, and updating reference files, shared drives, and web pages; troubleshooting and resolving operating system conflicts, maintaining logs, and creating reports, as required.

Deliverable: Updated Application Administration Manual

1.3.7 Task Area 7 – AMP Federation Model User Training. The contractor shall provide AMP Federation Model training on 10 occasions during the period of performance. Training shall be on the use of the AMP Federation modeling tools. USTRANSCOM will coordinate and provide the training classroom (including hardware) if such training is required. Training shall be consistent with industry standards and result in the trainees' full understanding of the capabilities and the designed use of the associated software applications and GUIs. User training prescribed in this Task Order may be combined with user training required by other task orders in effect during the period of performance of this Task Order, if appropriate.

1.3.8 Task 8 – Security Engineering and Cyber Security Requirements

1.3.8.1 Task 8 Subtask 1 – Security Engineering Requirements.

The contractor shall evaluate AMP applications to ensure security issues are identified and addressed.

1.3.8.1.1 The contractor shall monitor and analyze IA Vulnerability Management (IAVM) Notices, USTRANSCOM Security Notifications, United States Cyber Command (CYBERCOM) and vendor security advisories and make recommendation to the Government for applicability to AMP.

1.3.8.1.1.1 The contractor shall prepare an initial analysis and assessment "quick-look" for high impact (risk) advisories (based on the Security Technical Implementation Guide [STIG] Finding Severity Category listed in the IA Vulnerability Advisories [IAVA] and IA Vulnerability Bulletins [IAVB] to the PM and AMP Engineer. All STIG Finding Severity Category I and II IAVAs and IAVBs are considered high impact.

Deliverable: High Impact Risk Advisory.

1.3.8.1.1.2 The contractor shall prepare an analysis for other than high impact advisories and provide it to the AMP Engineer.

Deliverable: Other Risk Advisory.

1.3.8.1.1.3 The contractor shall provide a summary of security analysis and assessment results at the IPT and an update in the MSR.

Deliverable: Security Summary.

1.3.8.1.2 The contractor shall analyze applicable security bulletins to determine impact, identify mitigating factors, and develop recommendations to the Government regarding potential courses of action. Contractor recommendations shall be compliant with AMP, USTRANSCOM, and DOD security requirements. The contractor shall ensure that patch deployments and other significant security activities are documented in the IMS.

1.3.8.1.3 System Design, Information System Security Engineering Principles. The contractor shall ensure that information system security engineering is employed during all changes to the system architecture. As part of the contractor's change control process, the contractor shall ensure participation by an Information System Security Engineer or an IA representative qualified in accordance with DOD 8570.01-M, Information Assurance Workforce Improvement Program, to evaluate the impact of each change on security. The contractor shall document the results of this evaluation in a report to the PM.

1.3.8.1.4 Software Assurance and Security Engineering Practices. In coordination with the Government, the contractor shall design, develop and implement secure applications and configurations through applying applicable DOD Security Technical Implementation Guides (STIGs), checklists, vendor security guidance, industry best practices, such as those discussed in the documents located at http://www.safecode.org/publications/SAFECode_BestPractices0208.pdf and [https://www.isc2.org/uploadedFiles/\(ISC\)2_Public_Content/Certification_Programs/CSSLP/ISC2_WPIV.pdf](https://www.isc2.org/uploadedFiles/(ISC)2_Public_Content/Certification_Programs/CSSLP/ISC2_WPIV.pdf); and applicable vendor product security patches. The contractor shall ensure applications comply with DOD Instruction (DODI) 8500.2, Information Assurance Implementation, and DODI 8551.1, Ports, Protocols, and Services Management (PPSM). The contractor shall leverage automated tools to identify and remediate vulnerabilities or weaknesses in the application design/coding, such as those described in CWE/SANS TOP 25 Most Dangerous Programming Errors (<http://www.sans.org/top25-programming-errors>) and OWASP Top Ten (http://www.owasp.org/index.php/Category:OWASP_Top_Ten_Project), that could be exploited by unauthorized sources. The Information System Security Engineer shall participate in Government and contractor formal and informal design reviews to identify potential security weaknesses, deficiencies, and/or vulnerabilities in the design. The Information System Security Engineer shall also ensure appropriate security requirements are included as part of the requirements traceability matrix and are evaluated as part of the security test and evaluation (ST&E). As part

of the contractor's change control process, the contractor shall ensure participation by the Information System Security Engineer or an IA representative qualified IAW DOD 8570.01-M, Information Assurance Workforce Improvement Program, to evaluate the impact of each change on security. The contractor shall document the results of this evaluation.

1.3.8.1.5 Non-Secure Software. If the Government determines, after a security audit (e.g., ST&E), that software delivered under this contract is non-secure, the Government will provide written notice to the contractor of each non-conformity. Software will be "non-secure" under this contract if it contains a programming error listed on the current approved version of the CWE/SANS TOP 25 or a web application security flaw listed on the current approved version of the OWASP Top Ten. Such notice constitutes revocation of acceptance of delivered software. The contractor shall have twenty (20) business days after receipt of such notice (Remedy Period) to remedy each non-conformity by modifying/replacing and redelivering the software to the Government. If the Government determines, after a security audit following a Remedy Period, that the redelivered software is non-secure, and thus non-conforming, the Government may reject the delivery, provide notice of the non-conformance, and document the contractor's performance record. Alternatively, the Government may accept non-conforming software, receive appropriate consideration (equitable price reduction on a fixed price contract, reimbursement for costs of security audit, reimbursement for costs to correct the non-compliances, etc.), and document the contractor's performance record.

1.3.8.1.6 Malicious Code Warranty. The contractor represents and warrants that the software shall be free from all computer viruses, worms, time-outs, time bombs, back doors, disabling devices, and other harmful or malicious code intended to or which may damage, disrupt, inconvenience, or permit access to the software user's or another's software, hardware, networks, data, or information.

1.3.8.1.7 Source Code Configuration Control (Versioning). The contractor will use a strict version control process for software development and provide two copies of source code for all software versions developed under this contract. Source code shall be provided IAW Paragraph 1.3.5.3 and delivered IAW Paragraph 1.4.

1.3.8.2 Task 8 Subtask 2 – System Security Documentation.

The contractor shall assume responsibility for management and update of existing system security documentation that has been developed to facilitate AMP security accreditation in accordance with the DOD Information Assurance Certification and Accreditation Process (DIACAP). The contractor shall perform the security certification activities described below to maintain AMP accreditation and support re-accreditation. The contractor shall support USTRANSCOM's use of the DOD Enterprise Mission Assurance Support Service (eMASS) system for automated accomplishment of the certification and accreditation process. The contractor shall update eMASS a minimum of once per year and once for each software release and provide supporting IA documentation for upload as artifacts in eMASS. The Government will provide eMASS accounts to designated contractor IA personnel in support of this requirement. The Government also will provide eMASS computer-based training to the designated contractor personnel.

1.3.8.2.1 At a minimum, the contractor shall ensure compliance with the following applicable directives:

- DOD Directive (DODD) 8500.1, Information Assurance, October 24, 2002
- DOD Instruction 8500.2, Information Assurance Implementation, February 6, 2003
- DODD 8570.01, Information Assurance Training, Certification and Workforce Management, April 23, 2007
- DODI 8570.01-M, Information Assurance Workforce Improvement Program, April 20, 2010
- CJCS Manual 6510.01E, Defense-in-Depth: IA and Computer Network Defense (CND), August 15, 2007
- DODI 8510.01, DOD Information Assurance Certification and Accreditation Process (DIACAP), November 28, 2007
- Government directed modifications to Policy or Guidance

1.3.8.2.2 AMP has been designated Mission Assurance Category (MAC) III, Classified, for the purposes of applying IA controls. The contractor shall develop and maintain the below list of documentation required to support DIACAP accreditation decisions.

1.3.8.2.3 The System Security Plan (SSP) shall serve as the overarching document. The SSP shall address all of the applicable DODI 8500.2 IA controls, and shall be recognized as the official system security policy and will be signed by the AMP PM, Functional Manager, Information Assurance Officer and the Certifying Authority. The contractor shall deliver the documents listed below as appendices to the SSP:

- Audit Design Artifact *
- Audit Subsystem Artifact *
- Cryptographic Subsystem Artifact *
- IA Acquisition Artifact *
- Identification and Authentication Subsystem Artifact *
- Incident Response Plan (IRP) Artifact *
- Interconnections Artifacts *
- Personnel Security Artifact *
- Remote Access Artifact Security *
- Security Design Document (SDD) Artifact *
- Security Test Plan (STP) Artifact *
- Vulnerability Management Plan (VMP) Artifact *
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Note: The Government will provide templates for the items denoted with an asterisk (*).

Deliverable: System Security Plan and appendices

1.3.8.3 Task 8 Subtask 3 – Cyber Security Requirements.

1.3.8.3.1 (Option) Requirements for Contractor Provision of Security Plan and Information Assurance (IA)

Controls. The contractor shall establish an IA Program to implement and sustain appropriate IA management, operational, and technical controls and processes required to safeguard DOD non-public information resident on or transiting the contractor's unclassified information systems from unauthorized access and disclosure. Protection measures applied must be commensurate with the risks (i.e. consequences and their probability) of loss, misuse, unauthorized access, or modification of information. The contractor shall submit for Government approval an overarching security plan that describes its strategy for implementation of IA and Industrial Security requirements throughout the life of the contract. The security plan shall address the security controls described in NIST Special Publication 800-53, Revision 3, Recommended Security Controls for Federal Information Systems and Organizations (<http://csrc.mist.gov/publications/PubsSPs.html>), and shall be tailored in scope and depth appropriate to the effort, the specific unclassified DOD information resident on or transiting the contractor's unclassified information systems, and approved by the Government.

1.3.8.3.2 (Option) Developer Environment, Mission Assurance Code, and Confidentiality Level. The contractor development environment shall be physically and logically isolated from other networks, to include its enterprise unclassified network. Security guidelines for the environment must be documented and the security program implemented shall address the security controls described in National Institute of Standards and Technology (NIST) Special Publication 800-53, Revision 3, Recommended Security Controls for Federal Information Systems and Organizations (<http://csrc.mist.gov/publications/PubsSPs.html>).

1.3.8.3.3 (Option) Remote Access. Contractor Furnished Equipment (CFE) employed for remote access to a Government network shall meet equivalent Government Furnished Equipment (GFE) IA computing requirements. The contractor shall ensure that all CFE (hardware and software) employed to access these environments meet the following minimum Government IA requirements and provide periodic certification of compliance as a pre-requisite to being granted network access.

- 1 Use of personal systems is prohibited;
- 2 OSs and applications shall be configured for compliance with the DISA Gold Disk and applicable STIGs;
- 3 DOD approved anti-virus and anti-spyware software shall be installed and signatures must be configured to automatically update on a daily basis;
- 4 DOD approved personal firewall shall be utilized and configured to permit traffic by exception only, dropping all other traffic. If the personal firewall provides intrusion detection or prevention; the signatures or rules shall be updated at the same intervals as the anti-virus software;
- 5 Computers must be IAVM compliant;
- 6 Computers shall be scanned with the DOD version of E-eye Retina vulnerability scanner (or current approved DOD scanner solution) at a minimum of every twenty (20) business days. All vulnerabilities shall be remediated and reported to the AMP Information Assurance Manager (IAM).
- 7 Contractor employees shall possess a current Government issued CAC and install Government certified CAC readers; and
- 8 Verification of compliance with these requirements shall be provided to appointed Government representative on a monthly basis.

1.3.8.3.4 (Option) Periodic Government Inspections. The contractor shall authorize periodic Government inspections and reviews to assure compliance with DOD IA requirements throughout the contract performance period. The contractor will be responsible for taking corrective action based upon the impact and severity of identified weaknesses.

1.3.8.3.5 (Option) Detect, Analyze, Respond.

1 The contractor shall report to the USTRANSCOM Technical Information Analysis Center (TIAC) and USTRANSCOM designated Government personnel within 4 hours of discovery of a suspected cyber intrusion events that affect DOD information resident on or transiting the contractor's unclassified information systems. Initial report shall be provided even if some details are not yet available, with follow-on detailed reporting within 24 hours. Reportable cyber intrusion events include the following:

- A cyber intrusion event appearing to be an advanced persistent threat
- A cyber intrusion event involving data exfiltration or manipulation or other loss of DOD information resident on or transiting the contractor's, or its sub-contractors', unclassified information systems
- Intrusion activities that allow unauthorized access to an unclassified information system on which DOD information is resident or transiting

Note: Definition of advanced persistent threat: An extremely proficient, patient, determined, and capable adversary including two or more of such adversaries working together.

2 The incident report shall include, at a minimum, the following information:

- Applicable dates (date of suspected compromise and date of discovery)
- Threat methodology (all known resources used such as Internet Protocol (IP) addresses, domain names, and malware)
- An account of what actions the threat(s) may have taken on the victim system/network and what information may have been accessed
- A description of the roles and functions of the threat-accessed system
- An initial list of potentially impacted Government programs and each program's classification

- What information may have been exfiltrated that may impact Government programs
- A list of all employees and subcontracted employees who work or have worked with the victim system/network
- A point of contact to coordinate damage assessment activities

3 Incident Report Submission. The contractor will submit unclassified network cyber incident reports to the USTRANSCOM TIAC and USTRANSCOM designated Government personnel via encrypted email or another mutually agreed upon secure communications method. Copies of malware require special handling and pre-coordination must be accomplished prior to submission.

4 Incident Response Coordination. In the event of a known or potential intrusion, the contractor agrees to allow follow-on actions by the Government to further characterize and evaluate the suspect activity. The contractor acknowledges that damage assessments may be necessary to ascertain intruder methodology and identify systems compromised as a result of the intrusion. The contractor acknowledges that in certain cases a complete forensic analysis may be necessary to ascertain intruder methodology and identify systems compromised as a result of the intrusion. The contractor acknowledges that once unauthorized access is identified, destruction of evidence related to the suspect activity could constitute obstruction of a criminal investigation in violation of 18 U.S.C. § 1510. Follow-on actions will be coordinated with the contractor via the COR.

1.3.8.3.6 (Option) Law Enforcement/Counterintelligence. In the event of a known or potential intrusion, the contractor shall consent to responding counterintelligence or law enforcement investigative agency requests to apply forensic analysis tools to contractor information systems affected by the intrusion, including monitoring tools, imaging tools, and other techniques that the agency seeks to apply to effectively analyze the intrusion. The contractor shall allow the responding counterintelligence or law enforcement investigative agency to image affected systems, including systems containing proprietary information. Nothing in this contract shall limit the ability to conduct law enforcement or counterintelligence activities, or other activities in the interest of national security.

1.3.8.3.7 (Option) Information Sharing. The Government may use and disclose reported information that does not include attribution information (e.g., information regarding threats, vulnerabilities, incidents, or best practices) at its discretion to assist entities in protecting information or information systems (e.g., threat information products, threat assessment reports); provided that such use or disclosure is otherwise authorized in accordance with applicable statutes, regulations, and policies.

1.3.8.3.8 (Option) Confidentiality and Non-Attribution Statement. The Government will take reasonable steps, by controlled access and need-to-know procedures, to protect against public release of attribution information of the contractor. The Government may use and disclose reported information that includes attribution information only on a need-to-know basis to authorized persons for cyber security and related purposes (e.g., in support of forensic analysis, incident response, compromise or damage assessments, law enforcement, counter intelligence, threat reporting, and trend analysis). The Government may disclose attribution information to support contractors that are supporting the Government's cyber security and related activities if these support contractors are subject to legal confidentiality requirements that prevent any further use or disclosure of the attribution information. The Government agrees to consider available exemptions of the Freedom of Information Act to protect against disclosure of attribution information of the contractor to unauthorized persons. Within a reasonable period necessary to perform an analysis after completion of the assessment, all contractor proprietary information or third party proprietary information in the possession of the Government as a result of the assessment will be destroyed unless other disposition is agreed upon in writing by the Parties or is required by law, Executive Order or regulation.

1.3.8.3.9 Information Assurance Training. The contractor's employees physically assigned to USTRANSCOM / Transportation Component Commands (TCC) at Scott AFB shall attend/complete security training as prescribed by DOD and USTRANSCOM/TCC instructions. At a minimum, this includes Employee Initial Security Training, Annual Security Awareness Training, Operations Security (OPSEC), DOD Antiterrorism Level 1 Training, Personally Identifiable Information (PII) Training and Security Stand-Down Day Training scheduled by the Commander of the organization to which the employee is assigned. Contract employees assigned elsewhere shall attend security training established by their respective government security offices and/or installations.

1.3.8.3.10 Information Assurance Workforce Improvement Program (IAWIP). The contractor shall:

1 Ensure that personnel accessing information systems have the proper and current information assurance certification to perform information assurance functions in accordance with DOD 8570.01-M, IAWIP. The contractor shall meet the applicable information assurance certification requirements, including:

- DOD-approved information assurance workforce certifications appropriate for each category and level as listed in DOD 8570.01-M; and
- Appropriate operating system certification for information assurance technical positions as required by DOD 8570.01-M

2 Upon request by the Government, the contractor shall provide documentation supporting the information assurance certification status of personnel performing information assurance functions.

3 Contractor personnel who do not have proper and current certifications shall be denied access to DOD information systems for the purpose of performing information assurance functions.

Deliverable: IAWIP Certification Documentation

1.3.9 Task Area 9: Configuration Management (CM).

Provisions of this paragraph and its subparagraphs also shall apply to other TWCF-funded task orders issued during the period of performance of Task Order 0007. This support is required to meet the DIACAP and USTRANSCOM technical and security requirements. The CM process facilitates orderly configuration identification, change identification and control, status reporting and configuration auditing of product information for such beneficial purposes as to revise capability; improve performance, reliability, or maintainability; extend life; reduce cost; reduce risk and liability; or reduce defects. CM ensures that changes take place in an identifiable and controlled process and do not adversely affect the properties of the other system or interfaces. CM establishes and maintains the integrity of the products of a project throughout the project life cycle. CM involves identifying the configuration items of products developed and delivered to the customer, systematically controlling changes to the configuration, and maintaining configuration traceability. The contractor's configuration management processes must complement the Government configuration management processes.

1.3.9.1 Task 9 Subtask 1: Configuration Manager Responsibilities.

The contractor's Configuration Manager shall develop a CMP and processes that are consistent with the Government CMP and processes. The contractor's Configuration Manager shall establish and maintain the following:

- **Plan organization**
- **Methods, procedures, and controls**
- **Baselines (versioning)**
- **Configuration identification**
- **Change control**
- **Configuration status accounting**
- **CM audits of total configuration to include hardware, software, and firmware**
- **CM Repository**

- **CM Process**

Deliverable: CMP**1.3.9.2 Task 9 Subtask 2: Configuration Identification.**

The contractor shall provide configuration identification as specified in its CMP. This identification may include hardware configuration items or software configuration items. All configuration items must be uniquely identifiable by use of a configuration item number and nomenclature.

Deliverable: Updated Configuration Item Listing

1.3.9.3 Task 9 Subtask 3: Change Control.

The contractor shall provide change control for all AMP baselines and configuration items to include documentation, hardware, Commercial-off-the-Shelf (COTS) software, application, source, and executable code. The contractor shall employ its change control process to identify, track, and release all changes and problems identified with the program. The contractor initially shall use its change control process and will transition to the PMO's requirements management tool (Rational ClearQuest) to identify, track, and release all changes and problems identified with the program when directed by the Government. The Government will provide web access to ClearQuest for the contractor's helpdesk and support personnel. The contractor shall provide all source code deliveries to the Government provided tool (Rational ClearCase), when directed by the Government. The Government will provide the web access to the contractor's CM team for this purpose.

1.3.9.4 Task 9 Subtask 4: Evaluating Requested Changes.

The contractor shall evaluate all Change Requests. Evaluations include requirement clarification and analysis, including an estimate of the level of effort to implement the requested change, determination if the requirement is obligatory or optional, determination if the requirement is feasible, and the consequences of the proposed change, such as ability to adhere to standards and any impacts on training. Depending on the amount of information required or provided, the contractor shall provide this information to the Government via the automated requirements management tool and/or as a separate document. The contractor shall initially use its change control process supported by tools it currently uses. The contractor shall transition its current change control database to the Government's requirements management tool when the latter is implemented. Upon the implementation of the CCT databases, the contractor shall have thirty (30) business days to transition to the Government-provided CCT.

Deliverable: Change Request Evaluation Report**1.3.9.5 Task 9 Subtask 5: Asset Management.**

The contractor shall provide and maintain an asset management system to track all AMP hardware and software, warranties, maintenance support agreements, software licensing, and accountability for significant hardware purchases or upgrades. The contractor shall identify all existing infrastructure assets, hardware, and COTS software that are not IPv6 capable. The contractor shall provide status of baselines, configuration items, and all outstanding enhancements and defects. The contractor will provide Status Accounting Reports to the Government semi-annually (6 and 12 months following contract award).

Deliverable: Status Accounting Reports

1.3.9.6 Task 9 Subtask 6: Configuration Control Board (CCB).

Upon request by the Government, the contractor's Configuration Manager will participate in the Government's CCB. The contractor's Configuration Manager will act as the liaison between the Government and contractor to provide additional information that the CCB requires. The Government estimates quarterly CCBs per each contract period lasting no more than one hour per CCB with minimum preparation time.

1.3.9.7 Task 9 Subtask 7: Change Working Group (CWG).

The contractor's Configuration Manager will participate in CWGs. The CWG is formed under the authority of the CCB and meets when directed by the Government. The Government estimates CWGs will be held approximately every two weeks during the period of performance. Meetings will last no more than one hour, and should require minimum preparation time. The CWG will review contractor change request evaluations, unresolved Help Desk tickets, proposed releases, data quality issues, Engineering Change Proposals (ECPs), requests for deviations, etc. The CWG determines the validity of all items and issues and prepares each item for CCB presentation if required.

1.3.9.8 Task 9 Subtask 8: Configuration Management Audits.

The contractor shall conduct physical and functional configuration audits of each code baseline or release delivered to the Government. The Government reserves the right to participate in the audits. The contractor shall notify the Government of its intent to conduct a physical or functional configuration audit no later than 30 calendar days prior to the conduct of each of these audits.

1.3.10 Task Area 10: Enhancements.

1.3.10.1 Task Area 10 Subtask 1: AMP-PAT Surface Movement Synchronization. The contractor shall add setup synchronization for assets between AMP and AMP-PAT GUIs. This capability will synchronize on the number of trucks, storage capacities, number of rail assets, and vehicle types.

1.3.10.2 Task Area 10 Subtask 2: Federation Performance. The contractor shall enhance the software to support runs up to twelve years in duration.

1.3.10.3 Task Area 10 Subtask 3: Aircraft Generation Schedule. The contractor shall update the aircraft generation schedule editor to support changing the M-Day values without deleting and re-adding the column.

1.3.10.4 Task Area 10 Subtask 4: AMP Transportation Network Management. The contractor shall support enhancements to the transportation network capability. The contractor shall confer with analysts to determine an approach for improving the way network management is currently conducted, and shall update GUIs to support this. The contractor shall enhance the "Disconnected GEOLOC" Report to allow drilldown in the report, to include zooming on the map, connecting to the closest node, and connecting to the closest link. The contractor shall update the AMP application to allow for comparison of route length deviations from great circle distances and compare length fidelity. The contractor shall enhance the overall network management capability by providing ways to more easily work network connectivity disconnects, improve performance, and merge networks more easily. The contractor shall also fix errors which occur while working in the network management construct.

1.3.10.5 Task Area 10 Subtask 5: AMP Strategic Support and Integration. The contractor shall ensure the AMP Federation accommodates enhancements to the Strategic module. The AMP developer shall coordinate with the Strategic module developer to understand Strategic module enhancements and support full integration efforts. The Government will coordinate with the Strategic modeling PMO for new capability to support the AMP Federation.

1.3.10.6 Task Area 10 Subtask 6: AMP Theater Support and Integration. The contractor shall ensure the AMP Federation accommodates enhancements to the Theater modeling module. The AMP developer shall coordinate with the Theater module developer to understand Theater module enhancements and support full integration efforts. The Government will coordinate with the Theater modeling PMO for new capability to support the AMP Federation.

1.3.10.7 Task Area 10 Subtask 7: AMP-PAT and Land, Air and Sea Warfight Model Federation Integration. The contractor shall keep the Federation up-to-date with AMP-PAT and appropriate land, air and sea warfight model releases.

1.3.10.8 Task Area 10 Subtask 8: AMP Mapping Support. The contractor shall continue to integrate and test mapping support in AMP. The contractor shall keep AMP up-to-date with OpenMap releases and will continue to add key setup and run time information on the map.

1.3.11 Task Area 11 – New Development. The contractor shall provide the following new software capability to the existing AMP application. Paragraph numbers below are consistent with those found in the basic Indefinite Delivery (ID) / Indefinite Quantity (IQ) contract, HTC711-10-D-S002, but may not sequentially follow each other due to changes in functional priority. The paragraph numbering for those enhancements that do not appear in the basic contract sequentially follow the paragraph numbers for enhancements listed in Task Order 0006 of this contract.

1.3.11.68 Surface Modeling Control. The contractor shall deliver the capability to turn on/off the detailed surface modeling capability throughout the course of a single run. The ability to do this will be controlled by a schedule, and when the detailed surface model is not on, the time-distance simulation will be used.

1.3.11.69 AMP Reports/Results. The contractor shall continue to design, develop and test feedback of interim and final AMP Federation results. This includes reports, results viewing and graphs.

Deliverable: Software Release

1.3.11.69.1 TPFDD Report. The contractor shall deliver a report that provides details about what data AMP “fixed” when the TPFDD was imported.

1.3.11.69.2 Access to Reports. The contractor shall deliver the capability to access all reports from archived runs, without having to re-run the model.

1.3.11.69.3 Results Tracing. The contractor shall deliver six new reports/graphs which will assist users in analyzing this data.

1.3.11.69.4 Add GEOLOCs from “Missing Nodes” Report. The contractor shall deliver the GUI to enable drilldown options from the “Missing Nodes” reports to either find and create network nodes from the GEOLOC file; or bring up an editor to create user-defined GEOLOCs and create network nodes from them. These editors shall connect these nodes with road/rail links, if designated by the user.

1.3.11.70 AMP Critics. The contractor shall continue to design, develop, test, and implement AMP ‘Critics.’ These include pre-run checks on AMP setup data and post-run checks on Federation results.

1.3.11.71 Stochastic Demand. The contractor shall deliver the capability to stochastically generate new sustainment emergency requirements that pull from a stochastically chosen source. To support this, the contractor shall deliver the capability to run multiple trials.

1.3.11.72 Air Refueling (A/R). The contractor shall deliver the capability, within the AMP construct, to perform air refueling activities.

1.3.11.72.1 Infrastructure Design & Strategic A/R. The contractor shall deliver the capability, within the AMP construct, to conduct strategic air refueling activities. The contractor shall deliver the capability to coordinate tanker and strategic aircraft to ensure the fuel needed is available at the proper time and location. The contractor shall deliver the capability to delay receiver and/or tanker missions when there is projected congestion at the arrival airport and the aircraft is scheduled to use aerial refueling.

1.3.11.72.2 (Option) A/R Support of Deployments. The contractor shall deliver the capability, within the AMP construct, to support air refueling of receiver aircraft during deployments. This includes the development of fighter deployment routes.

1.3.11.72.3 Theater Tanker Operations. The contractor shall deliver the capability, within the AMP construct, to support air refueling during theater operations. This will include the employment of tanker assets in support of air combat operations.

1.3.11.72.4 (Option) Cargo on Tanker Aircraft. The contractor shall deliver the capability, within the AMP construct, to use tanker aircraft to perform cargo delivery operations.

1.4 Deliverables. The contractor shall deliver data and software (with applicable data rights) as set forth in the below tables. IAW DFARS 252.227-7013 and DFARS 252.227-7014, the Government obtains under this contract “unlimited rights” to all non-commercial computer software, software source code, computer software documentation, enhancements, technical data, and similar non-commercial data developed exclusively at Government expense and delivered to the Government under this contract. “Unlimited rights” means rights to use, modify, reproduce, release, perform, display or disclose in whole or in part, in any manner and for any purpose whatsoever, and to have the ability to authorize others to do so. The contractor agrees that regardless of how contractor provided data/software is developed or modified during contract performance, the contractor will deliver data/software marked IAW requirements in DFARS 252.227-7013, 252.277-7014, or other applicable reference.

For all other non-commercial data delivered under this contract, the Government has the right to use, modify, reproduce, release, display or disclose, in whole or in part, in any manner and for any purpose whatsoever, and to have or authorize others to do so.

The contractor shall prepare all deliverables using a Government-supported version of Microsoft Office (including Access, as necessary) or Microsoft Project software, with the exception of source code, which the contractor shall provide in native code language. The contractor shall upload files directly into the USTRANSCOM-provided Joint Deployment Planning and Analysis Center webshare. If the contractor is unable to load the deliverable file(s) on the webshare, then the contractor shall provide a soft copy of each deliverable via e-mail to ustcj6-pcm@ustranscom.mil. Should this second method of transmittal prove unsuccessful, the contractor shall provide the required deliverables on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. “Format”, as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Due Date
1.3.1.1	TOMP	Government-Determined	30 calendar days after Task Order award; Updates due 30 calendar days after receipt of each subsequent Task Order award	15 calendar days from receipt of Government comments
1.3.1.2	MSR	Government-Determined	N/A	10 th calendar day of each month; Final to be provided NLT the last day of the contract
1.3.1.3	Presentation Materials, IPR Meeting Minutes	Government-Determined	Presentation Materials due 2 business days prior to IPR	Meeting Minutes 5 days after IPR
1.3.1.4	IMS	MS Project	10 calendar days after Task Order award; Updated monthly (include with MSR) or when schedule changes	5 calendar days from receipt of Government comments
1.3.3	Requirement	Contractor-	Within 5 business days of	Within 5 business days

	Impact Assessment	Determined Format	entry of requirement in program RMT	after receipt of Government comments
1.3.5.1	Software Requirement Specification (SRS)	Contractor-Determined Format	NLT 30 calendar days prior to scheduled TRR	NLT 10 calendar days after receipt of Government comments
1.3.5.2.1	TRR/ORR Slides	Government-Determined Format	NLT 3 business days before scheduled TRR/ORR	NLT one business day before scheduled TRR/ORR
1.3.5.2.3	PRR Slides	Government-Determined Format	NLT 3 business days before scheduled PRR	NLT one business day before scheduled PRR
1.3.5.2	Software Test Plan	Contractor - Determined Format	NLT 30 calendar days before scheduled TRR	NLT 10 calendar days after receipt of Government comments
1.3.5.2	Software Test Cases	Contractor - Determined Format	NLT 30 calendar days before scheduled initial delivery of software	NLT 10 calendar days after receipt of Government comments
1.3.5.2	Software Test Reports	Contractor - Determined Format	N/A	NLT 5 business days following each test involving Government participation
1.3.5.3	Software VDD	Government-Determined Format	NLT 60 calendar days prior to scheduled initial delivery of software	At ORR
1.3.5.3, 1.3.10 and subparas, 1.3.11 and subparas	Software Release	Contractor-Determined Format	Initial delivery at scheduled Production Readiness Review (PRR)	Final delivery at scheduled Operational Readiness Review (ORR), or at Government's request, end of performance period
1.3.5.3	Updated User Guide	Contractor-Determined Format	Updates due NLT 20 calendar days prior to major software release	NLT 10 calendar days after receipt of Government comments
1.3.5.3	Software Source Code	Contractor-Determined in Native Format	N/A	NLT 5 business days following ORR
1.3.6	Updated Application Administration Manual	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments
1.3.8.1.1.1	High Impact Risk Advisory	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments
1.3.8.1.1.2	Other Risk Advisory	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments
1.3.8.1.1.3	Security Summary	Contractor-Determined Format	10 days before ORR	NLT 3 days after receipt of Government comments
1.3.8.2.3	SSP and appendices	Government-Determined Format	Updates as required by the Government	NLT 10 days after receipt of Government comments
1.3.8.3.9	Contractor Security Training Completion	Government-Determined Format	N/A	Upon completion of training

	Documentation			
1.3.8.3.10	Contractor IAWIP Certification Documentation	Vendor-Determined Format	N/A	Produced Upon request of the Government
1.3.9.1	Configuration Management Plan	Government-Determined Format	Update as required by the Government	NLT 10 calendar days after receipt of Government comments
1.3.9.2	Updated Configuration Item Listings	Contractor - Determined Format	NLT 60 calendar days prior to end of performance period for this Task Order	NLT 10 calendar days after receipt of Government comments
1.3.9.4	Change Request Evaluation Report	Contractor - Determined Format	N/A	NLT 15 days following receipt of change request
1.3.9.5	Status Accounting Reports	Contractor - Determined Format	Monthly, with the MSR	NLT 5 calendar days after receipt of Government comments
4.4.1	Trip Report	Government-Determined Format	N/A	5 days after completion of travel

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Develop and Deliver IMS	1.3.1.4,	Documents: No more than one (1) late delivery of draft and no more than 5 days late. Documents should contain no more than 1 critical or more than 4 substantive comments per document. No more than 2 sets of revisions/corrections with all revisions/corrections accomplished or incorporated by due date. (A second "set" may be necessary should Government comments be required on the second draft (or "final") delivery in response to the first set of Government comments.) Software: Delivered on time, with no more than 1 planned version delivered no more than 5 days beyond ORR (according to contractor- and Government-agreed schedule), with no more than 2 Priority 1 problem reports, 4 or fewer Priority 2 problem reports, 6 or fewer Priority 3 or below problem reports. All Priority 1 and 2 and 50% or more of the Priority 3 problem reports submitted during UAT resolved and operational software delivered on time, according to contractor- and Government-agreed schedule, with no more than 1 planned version delivered no more than 2 days beyond PRR, according to contractor- and Government-agreed schedule.
Deliver Software Release, Updated User Guide, Software Source Code, VDD	1.3.5.3,	
Develop, Update & Provide SSP (and associated appendices)	1.3.8.2.3	

2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). GFE listed in the table below will be used to support the AMP tasks to be performed at the contractor's site. USTRANSCOM will maintain all GFE. The USTRANSCOM objective is to accomplish required maintenance within 48 hours of receipt at USTRANSCOM and to return the GFE to the contractor via overnight delivery. The Government will provide the equipment and leased line to support the Secure Internet Protocol Router Network (SIPRNET) connection in support of the secure network requirement described in Paragraph 5.17 of the PWS in Contract HTC711-10-D-S002.

GOVERNMENT FURNISHED EQUIPMENT (GFE) LISTING

Serial Number	Part Number	Model Number	Model Description
23579681	61000034D2	CPU	Gateway P4 1400
031C16C7	61000033J9	SUN	18.2 GB Hard Drive
045H2C5A	610000341P	SUN	ULTRA 60
219V00AE	610000365L	SERVER	SUN FIRE 880
450G4023	61000035ZH	TAPE DRIVE	SUN External
602F0284	610000082X	SUN	ULTRA 1
628G3304	6100003250	SUN	Tape Drive
7WF16B1		SERVER	DELL 6850 POWEREDGE SERVER
9429FR3687	61000033YI	SUN	Monitor
9502FR4029	61000008II	SUN	Monitor
DZKWN41		CPU	Dell Precision 650 (Strongbad)
TW22530559		MONITOR	HP 17" Flat Panel
27645944	610000367D	CPU	Gateway E6000 P4 2400
201003317	61000035T4	MONITOR	NEC Flat Panel 18"
FBKYRF1		WORKSTATION	Dell Precision 690 (Fabfour)
MUL8006A0045134	61000037MA	MONITOR	Gateway (Wolverine)
85SVT91		WORKSTATION	Dell Precision 670 (Wolverine)
24682585	610000367D	PC	Gateway P4 1400
MCOC95364663477C1C5L		MONITOR	Dell 20" LCD (Fabfour)
962R6B1		Disk Array	Dell/EMC ax150 RAID Array
MUL8006A0045628?	61000037ML	MONITOR	Gateway (Strongbad)
C8KQ6B1	26639930989	SERVER	DELL 6850 POWEREDGE SERVER

3.2 Government-Furnished Information. The Government will provide the latest version of the following documents to the contractor:

- DIACAP Artifact Templates

- System Classification Guide
- System Security Policy
- MIL-STD 3022, Documentation of Verification, Validation, and Accreditation (VV&A) For Models And Simulations, 28 Jan 2008
- USTRANSCOM Pamphlet 33-2, Communication Guide
- DOD Instruction 5000.61, DOD Modeling and Simulation (M&S) Verification, Validation, and Accreditation (VV&A)
- Government CMP
- Government Contingency Management Plan (discretionary)
- DODD 2000.12, DOD Antiterrorism Program, August 18, 2003
- DODD 8500.1E, Information Assurance, October 24, 2002
- DODI 2000.16, October 2, 2006 (DOD Antiterrorism Standards)
- DOD 5200.08-R, Change-1, DOD Physical Security Program, May 27, 2009
- DOD 5200.1-R, DOD Information Security Program, January 14, 1997
- DOD 5200.2-R, Change-3, Personnel Security Program, February 23, 1996
- DOD 5220.22-M, National Industrial Security Program, February 28, 2008
- DODI 8500.2, Information Assurance Implementation, February 6, 2003
- USTC 31-10 (Security Classification Guide)
- USTC 31-11 (USTRANSCOM Security Program)
- CJCS 6510.01E, Defense-in-Depth: IA and Computer Network Defense, 12 August 2008
- DOD 8570.01-M, Change-2, Information Assurance Training, Certification and Workforce Management, April 20, 2010
- DOD MIL-HBK-881A, Handbook for Preparation of Statement of Work, July 30, 2005
- DODI 8520.2, Public Key Infrastructure and Public Key Enabling, April 1, 2004
- DODI 8551.1, Ports, Protocols, and Services Management, August 13, 2004
- DODI 8510.01, DOD Information Assurance Certification and Accreditation Process, November 28, 2007
- DTM 08-027, Change-1, Security of Unclassified DOD Information on Non-DOD Information Systems, September 16, 2010
- National Institute of Standards and Technology Special Publication (NIST) 800-53, Revision 3, Recommended Security Controls for Federal Information Systems and Organizations, August 2009
- DOD Handbook 881, Work Breakdown Structures for Defense Materiel Items, 30 July 2005

DOD publications, directives, and instructions listed above are available at:

<http://www.dtic.mil/whs/directives/corres/pub1.html>

CJCS 6510.01E is available at:

http://www.dtic.mil/cjcs_directives/index.htm

NIST 800-53 is available at:

<http://csrc.nist.gov/publications/PubsSPs.html>

3.3 Facilities. No facilities specified.

4.0 GENERAL INFORMATION

4.1 – 4.2 All provisions of the Contract HTC711-10-D-S002 apply.

4.3 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB. Sustainment activity shall be conducted at a contractor facility not located within the

confines of Scott AFB, and on Scott AFB. To accommodate the contractor's on-site support personnel, the Government will provide controlled working space, phone, computer, fax, and connections to the NIPRNET or SIPRNET, as required, at no cost to the contractor for one FTE.

4.4 Travel.

Performance under this task order shall require contractor travel within the Continental United States (CONUS). The table below lists anticipated travel requirements. The Government will reimburse the contractor for travel expenses subject to the current Federal Acquisition Regulation (FAR) and Federal Travel Regulation (FTR). All contractor travel shall be coordinated with and validated by the PM prior to incurring any travel expenses. Travel requests shall be submitted in writing at least five (5) business days in advance from the travel commencement date and shall consist of:

- Title, Purpose/Objective, Expected Outcome
- Date, Time (window), and Location
- Proposed Itinerary
- Proposed Meeting/Activities Agenda
- Number of Contractor Participants
- Desired Government Participants
- Requested Government Support
- Estimated Costs

The contractor shall identify personnel who will be traveling in sufficient time to obtain the lowest possible rates for airfare, rental car and lodging. Contractor invoices (along with associated receipts) shall support all travel reimbursement requests. The Government will not reimburse local travel and related expenses to the contractor for daily travel to or from the place of performance stipulated in each individual task order. Contractors shall not use General Services Administration city pair contracts.

ANTICIPATED CONTRACTOR TRAVEL

For estimating purposes, the Government anticipates the following trips (estimates include travel days) during the period of performance:

Origin	Destination	Duration (days)	Trip Description	No of People	Trips
Contractor location, if applicable	Scott AFB	4	IPR	3	1
Contractor location, if applicable	Scott AFB	4	UGM	3	1
Contractor location, if applicable	Scott AFB	4	AMP Training	2	4
Contractor location, if applicable	Scott AFB	4	Studies Support	2	1
Contractor location, if applicable	Scott AFB	3	Demo Support	1	1
Contractor location, if applicable	Scott AFB	4	Design Meeting	3	2

4.4.1 Trip Report. The contractor shall prepare and submit a trip report, including meeting minutes if applicable, following the conclusion of travel to the PM. Additionally, the contractor shall attach a copy of the report and minutes to the MSR. Trip report format shall comply with USTRANSCOM Pamphlet 33-2, Communication Guide.

Deliverable: Trip Report

4.5 Hours of Operation. Unless specified under individual task orders, normal duty hours are between 0730 and 1630, Monday through Friday, with the exception of Federal holidays. If on-site contractor personnel deem it necessary to work outside normal duty hours, it must be coordinated with the COR assigned to the task order. The following will be observed as Federal holidays: New Year's Day, Martin Luther King's Birthday, President's Day, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day, and Christmas Day. Note: Any of the above holidays falling on a Saturday shall be observed on the preceding Friday. Holidays falling on a Sunday shall be observed on the following Monday.

4.6 Other Direct Costs (ODC). The Government will reimburse allowable other direct costs (ODCs) incurred in the performance of this task order. ODCs may include, but are not limited to, software, group teleconferencing fees, and membership/conference fees. The primary or alternate COR will approve all ODCs prior to the incurring of any expenses. The contractor shall submit ODC requests in writing to the COR at least five (5) business days in advance of incurring any expenses. The request shall contain estimated costs. The contractor may be required to submit at least two quotes for high dollar value items. Contractor invoices (along with associated receipts) shall support all ODC reimbursement requests. Note: General and Administrative overhead charges will not be accepted or paid for approved ODC purchases.

4.7 Period of Performance. The period of performance for this task order is 1 Oct 2011 to 30 Sep 2012.

4.8 – 4.14 All provisions of the Contract HTC711-10-D-S002 apply.

4.15 Quality Assurance

The contractor shall support Government agency reviews and audits of all services and support provided under this PWS. The contractor shall support Quality Assurance reviews conducted by the Government. The Government reserves the right to authorize an independent verification and validation of the contractor's procedures, methods, data, equipment, and other services provided during the performance of this PWS.

4.16 Handling of Non-Public Information

In performance of this contract, the contractor may have access to sensitive, non-public information. The contractor agrees:

- a. To use and protect such information from unauthorized disclosure IAW DTM 08-027 - Security of Unclassified DOD Information on Non-DOD Information Systems, Incorporating Change 1, September 16, 2010, Attachment 2;
- b. To use and disclose such information only for the purpose of performing this contract and to not use or disclose such information for personal or commercial purpose;
- c. To obtain permission of the Government PM before disclosing/discussing such information with a third party;
- d. To return and/or electronically purge, upon Government request, all non-public, sensitive information no longer required for contractor performance;
- e. To advise the Government PM of unauthorized releases of such information;
- f. The contractor shall have its employees assigned to this contract execute a non-disclosure agreement for delivery to the Government. The Government will require contractor personnel to sign a non-disclosure agreement to protect non-public information of other contractors and/or the Government. Non-disclosure agreements are provided at Appendix C.

4.17 Acquisition Streamlining

IAW DFARS 252.211-7000, the contractor shall submit acquisition streamlining recommendations electronically. The Contracting Officer will provide more specific submission instructions upon award.

5.0 SECURITY (PHYSICAL, PERSONNEL, INFORMATION, ANTITERRORISM / FORCE PROTECTION AND INDUSTRIAL SECURITY)

5.1 General Security Information

The overall classification of work associated with this PWS will be at the *SECRET* level. Most of the work associated with this contract will be at the *SECRET* level.

Each task order will contain a DD 254 that will outline the security requirements for classified access to perform the deliverables and task orders in support of these contracts. All contract work associated with this PWS and all task orders deal directly with supporting current operations and decision making for the DPO for the DOD. An overall completed / signed DD 254 is attached to this PWS. Safeguarding of classified material at contractor locations is at the *SECRET* level. The safeguarding level must be approved in writing by Defense Security Service (DSS) before any classified will be stored at the contractor facility. All background investigation levels, access to classified areas and materials, assigned IT/Automated Data Processing (ADP) levels required by the Contractor and security stipulations for this classified contract (including any task orders assigned in the future) will be approved by one of the following: CO, COR or the functional manager, before the start of the contract or any task orders under this contract. The Contractor will not divulge any financial, planning, programming, or budgeting information without the express consent of the Government as outlined in OPSEC and Information Security regulations or be held liable for punitive damages incurred as a result of release of such information. The Contractor shall comply with all appropriate provisions of the applicable security regulations while assigned to this contract for DOD and USTRANSCOM.

5.2 Personnel Security Requirements

The Contractor's, subcontractors, and/or partner's personnel performing services under this contract shall be citizens of the United States of America. Dual citizens will not be authorized interim or final security clearance determinations within DOD. Any U.S. citizens who currently have (either expired or active) foreign passports will not be able to obtain or hold an interim/final security clearance determination within DOD; they are considered dual citizens. All Contractor personnel shall possess the appropriate personnel security investigation for the position(s) occupied as directed in section 5.1; these levels will be stipulated by the CO/COR or functional manager of the contract.

The following guidance will be followed when determining position sensitivity levels and background investigation levels for this contract depending on requirements and Task Orders:

POSITION LEVEL:

Information Technology (IT)-II,

Automated Data Processing (ADP)-II,

or Non-Critical Sensitive Positions (SECRET)

IT/ADP-II and Non-Critical Sensitive Positions are those positions that have: access to SECRET or CONFIDENTIAL information; Security police/provost marshal-type duties involving the enforcement of law and security duties involving the protection and safeguarding of DOD personnel and property; Category II-IT/ADP-II positions; duties involving education and orientation of DOD personnel; duties involving the design, operation, or maintenance of intrusion detection systems deployed to safeguard DOD personnel and property; any other position so designated by the head of the Component or designee.

BACKGROUND INVESTIGATION REQUIREMENTS:

(IT-II/ADP-II/Non-Critical Sensitive) Background Investigation Requirement for SECRET:

Positions designated by the Government at the Non-Critical Sensitive/ADP-II/IT-II rating require a National Agency Check with Local Credit (NACLC) (or acceptable periodic reinvestigation) favorably adjudicated (a favorable adjudication grants eligibility at the SECRET level as prescribed by DOD 5200.2-R). The IT-II/ADP-II requirement

mandates the Contractor have a minimum Facility Clearance Level (FCL) at the SECRET (or higher) level due to investigation submissions as directed in DOD 5220.22-M, DOD 5200.1-R and JPAS.

POSITION LEVEL:

Information Technology (IT)-III

Automated Data Processing (ADP)-III

Non-Sensitive Positions (POSITION OF TRUST DETERMINATION) (NO CLASSIFIED ACCESS):

All other positions involved in computer activities and Common Access Card (CAC). No clearance is granted for classified access and only a Position of Trust (PoT) is awarded and posted in the JPAS.

BACKGROUND INVESTIGATION REQUIREMENTS:

(IT-III/ADP-III/Non-Sensitive) Background Investigation Requirements for POSITION OF TRUST Determinations (NO CLASSIFIED ACCESS):

Positions designated by the Government at the Non-Sensitive/ADP-III/IT-III rating require a National Agency Check with Inquiries (NACI) (or acceptable investigation/reinvestigation) favorably adjudicated (a favorable adjudication issues a Position of Trust determination as prescribed by DOD 5200.2-R and DOD DTM 08-003. Favorable NACI or equivalent investigation results must be posted in JPAS before a CAC or NIPRNET access will be granted. To obtain interim CAC/NIPRNET access, NACI investigations will be opened with fingerprint, name and criminal records checks returned favorably before the credentials (CAC and NIPRNET) are issued. NACI submissions will be completed on the Standard Form (SF) 85P and submitted with fingerprint cards (FP 258) to USTRANSCOM Security Service Center (SSC) for processing. No classified access will be granted based on the NACI investigation.

NOTE: The above requirements for IT-III/ADP-III/Non-Sensitive Positions cover access to unclassified systems only. Contractors who require access to classified systems or areas must have interim or final adjudication of background investigations at the Non-Critical Sensitive and Critical Sensitive levels.

USTRANSCOM only processes NACI/PoT investigations and does not complete any personnel security investigations for classified access. It is incumbent upon the Contractor to have the appropriate investigations completed upon start of the contract. Personnel who do not have the proper investigation will be denied access to USTRANSCOM facilities until investigations have been favorably adjudicated.

5.3 Facilities Clearance Level

The Contractor must have a valid FCL at the SECRET level (or higher). Interim FCLs are acceptable provided they are not expired. FCL procedures and security guidelines for adjudicative requirements are outlined in DOD 5220.22-M and DOD 5200.2-R. FCLs and Interim FCLs must be awarded by the DSS. Any safeguarding levels required for this awarded company may be at the SECRET level or as directed by the task order DD 254 and inspections for this will be performed by DSS during normal inspection cycles.

5.4 Personnel and Facilities Clearance Validation

Upon contract award or task order award, the Contractor will submit the names of contract personnel to the USTRANSCOM SSC for vetting through JPAS to ensure investigative and clearance requirements have been satisfied. If a Contractor's employee does not have the required eligibility determination level based on the Government's determination, the Contractor's personnel will be denied the ability to work in support of this contract and the employee's information will not be loaded into Contractor Verification System (CVS) for the purpose of obtaining a CAC or be given classified material.

5.5 CAC Issuance Procedures

Upon notification by USTRANSCOM SSC that contractor personnel meet the required investigative and clearance levels, the personnel will be loaded in CVS for an expiration on their CAC for the base year, plus two option years, for a three year total, if the contract is fully funded. If the contract is not fully funded or funded on a yearly basis requiring recertification of funding by USTRANSCOM TCAQ/TCJ8, CACs will only be loaded for the current period of performance. All checks outlined in section 5.4 will be completed before the CO, COR, functional manager or trusted agent (TA) accesses the DOD CVS and submits the request for issuance of the CAC to the contractor's personnel.

5.6 Scott Air Force Base/USTRANSCOM Physical Access

Upon receipt of the CAC, permanently assigned contract personnel located at USTRANSCOM at SAFB, IL, may obtain the AF 1199 (Restricted Area Badge) if the employee meets the requirements set forth in the SAFB Instruction 31-101. This stipulates that personnel who request AF 1199's be assigned physically on SAFB at least four (4) days a week with a desk computer and phone before a AF 1199 will be issued. The Government will provide unrestricted access to facilities, consistent with security clearance and need to know, necessary for the on-site personnel to perform their work IAW the contract or task order. Contractor personnel assigned on-site at USTRANSCOM will wear the black contractor lanyard (provided by the Government at no cost) and display the Restricted Area badge at all times while in Government facilities. Visits to SAFB by contractor personnel who do not possess the CAC will be facilitated by the COR/CO sponsoring the employee through the online base access system.

5.7 Visits to USTRANSCOM Buildings

The following visit procedures apply; note that different a JPAS Security Management Office (SMO) code will be used depending upon the type of visit.

- **General Visits:** Any visit(s) by contractor personnel not permanently assigned to this contract (i.e., company presidents, company security managers, contractor personnel not permanently assigned at SAFB, etc.) require an electronic visit request be submitted using JPAS. JPAS visits can be forwarded to the Security Management Office (SMO) code: USTC-SDDC. The visit request will annotate the contract number in the POC block of the visit request and the name/phone number of either the CO or COR in the phone number block.
- **Permanently Assigned Contractors:** Permanently assigned contractor employees on SAFB will require a visit request for the current period of performance posted in JPAS to SMO: SSC-CONT. The visit request will annotate the contract number in the POC block of the visit request and the name/phone number either of the CO or COR in the phone number block. Upon in-processing permanently assigned contractors will require a copy of the DD 254 for this overall contract or task order to show the classified access level for this contract and to assist in assigning permissions on restricted area badges.

5.8 Security Training

Contract personnel physically assigned to USTRANSCOM/TCCs at SAFB shall attend/complete security training as prescribed by DOD, USTRANSCOM, and Air Force instructions. At a minimum, this includes Employee Initial Security Training, Annual Security Awareness Training, Operations Security (OPSEC), DOD Antiterrorism Level 1 Training, Personally Identifiable Information (PII) Training and any Security Stand-Down Day Training scheduled by the Commander, USTRANSCOM. Contract personnel assigned elsewhere shall attend security training established by their respective Government security offices and/or installations requirements.

5.9 Additional Security Conditions

All contractors assigned to USTRANSCOM/SDDC on SAFB will complete the contractor in-processing checklist before the start of working on this or any contract in USTRANSCOM. Contractor personnel shall complete the out-

processing checklist on the last day of the contract or upon termination or reassignment from duties under this contract. Upon completion of this contract, the contractor's personnel shall surrender all Government supplies, materials and equipment to the COR. All contractor personnel assigned to this contract who possess CAC cards shall return those cards to the SSC when completing out-processing. No CAC's or AF 1199 (Restricted Areas badges) will be turned into the contract company. Contractor personnel physically working at USTRANSCOM at SAFB, IL, shall complete a security debriefing statement (SF 312) upon completion of the contract.

The Government will ensure the roles/privileges assigned to contractor personnel on the Government computing platforms are limited to the roles/privileges essential to that individual's performance of his/her assignments. The Government may limit or revoke these roles or privileges for any reason.

5.10 Derogatory Information

If the Government notifies the Contractor that the employment or the continued employment of any contractor personnel is prejudicial to the interests or endangers the security of the United States of America, that employee shall be removed and barred from the worksite. This includes security deviations/incidents and credible derogatory information on contractor personnel during the course of the contract's period of performance as noted in JPAS. Personnel who have incident reports posted in JPAS will be denied the ability to support the contract until the issues have been resolved and the incident has been removed in JPAS. The Contractor shall make any changes necessary in the appointment(s).

USTRANSCOM Force Protection (Industrial Security) Points of Contact:

Patrick Collins or Steven Strait
508 Scott Drive
Security Services Center (SSC)
Scott AFB IL 62225
Commercial: 618-220-6551/8287
Email at Patrick.Collins@ustranscom.mil or Steven.Strait@ustranscom.mil

USTC FP Approval: (*NAME OF APPROVER, DATE of DD-255*)

DD 254 is attached

USTC FP Tracking #: **USTRANSCOM-FP** (*TRACKING NUMBER PROVIDED BY TCJ3-FP*)

(overall contract, task orders will be marked accordingly)

Security Regulation Guidance:

Department of Defense (DOD): Reference Paragraph 3.2

USTRANSCOM: Reference Paragraph 3.2

- Scott Air Force Base: SAFB Instruction 31-101 (Installation Security Instruction)

(Restricted publication. Sent only to .mil domains when forwarding. Not for public distribution.)

Forms: DD 254, DOD, Contract Security Classification Specification

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
0001	Destination	Government	Destination	Government
000101	Destination	Government	Destination	Government
0002	Destination	Government	Destination	Government
000201	Destination	Government	Destination	Government
0003	Destination	Government	Destination	Government
000301	Destination	Government	Destination	Government
0004	Destination	Government	Destination	Government
0005	Destination	Government	Destination	Government
0006	Destination	Government	Destination	Government
000601	Destination	Government	Destination	Government
0007	Destination	Government	Destination	Government
000701	Destination	Government	Destination	Government
0008	Destination	Government	Destination	Government
000801	Destination	Government	Destination	Government
0009	Destination	Government	Destination	Government
0010	Destination	Government	Destination	Government
0011	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
0001	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000101	N/A	N/A	N/A	N/A
0002	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000201	N/A	N/A	N/A	N/A
0003	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000301	N/A	N/A	N/A	N/A
0004	N/A	N/A	N/A	N/A
0005	N/A	N/A	N/A	N/A
0006	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000601	N/A	N/A	N/A	N/A

0007	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000701	N/A	N/A	N/A	N/A
0008	POP 01-OCT-2011 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
000801	N/A	N/A	N/A	N/A
0009	N/A	N/A	N/A	N/A
0010	N/A	N/A	N/A	N/A
0011	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.FD50 6F2 70AB 12901 G04N70 70210 00000F 387700 F87700

AMOUNT: \$1,086,663.96

CIN 000000000000000060500: \$986,612.26

CIN 000000000000000060502: \$63,177.90

CIN F3ST951234A0010005: \$26,873.80

CIN F3ST951234A0010006: \$10,000.00

AB: 97X4930.FD50 6F2 70AB 24901 G04N70 70110 00000F 387700 F87700

AMOUNT: \$1,815,573.24

CIN 000000000000000060501: \$1,511,916.64

CIN 000000000000000060503: \$303,656.60

CLAUSES INCORPORATED BY REFERENCE

252.204-0001

Line Item Specific: Single Funding

SEP 2009

WAWF INSTRUCTIONS**WIDE AREA WORKFLOW – RECEIPT AND ACCEPTANCE (WAWF-RA)
ELECTRONIC RECEIVING REPORT AND INVOICING INSTRUCTIONS**ACQUISITION POINTS OF CONTACT

Ms. Lisa A. Gross, Contracting Officer

USTRANSCOM/AQ-DPO

PHONE: 618-220-7061

Lisa.Gross@ustranscom.mil

Mr. Tristan Tikkanen, Contract Specialist

USTRANSCOM/AQ-DPO

PHONE: 618-220-7136

Tristan.Tikkanen@ustranscom.milCONTRACTING OFFICER'S REPRESENTATIVES (COR)

Mr. Ruben Ruiz, Primary

USTRANSCOM/AQ

PHONE: 618-256-6763

Ruben.Ruiz@ustranscom.mil

IN ACCORDANCE WITH DFARS 232.7002, USE OF ELECTRONIC PAYMENT REQUESTS IS MANDATORY. USE OF WAWF WILL SPEED UP YOUR PAYMENT PROCESSING TIME AND ALLOW YOU TO MONITOR YOUR PAYMENT STATUS ONLINE. THERE ARE NO CHARGES OR FEES TO USE WAWF.

Requests for payments must be submitted electronically via the Internet through the Wide Area WorkFlow – Receipt and Acceptance (WAWF-RA) system at <https://wawf.eb.mil>.

Questions concerning payment should be directed to the Defense Finance Accounting Services (DFAS) Limestone at (800) 756-4571 or faxed to (866) 392-7971 or e-mailed to cco-af-vpis@dfas.mil. Please have your order number and invoice number ready when contacting DFAS about payment status. You can also access payment information using the DFAS myInvoice web site at <https://myinvoice.csd.disa.mil/index.html>

**THE FOLLOWING CODES WILL BE REQUIRED TO ROUTE YOUR RECEIVING REPORTS,
INVOICES AND ADDITIONAL E-MAILS CORRECTLY THROUGH WAWF.**

CONTRACT NUMBER	HTC711-10-D-S002
DELIVERY ORDER NUMBER	0007
TYPE OF DOCUMENT	COST VOUCHER
CAGE CODE	3U6L5
ISSUE BY DODAAC	HTC711
ADMIN DODAAC	HTC711
INSPECT BY DODAAC	HTC711
DCAA AUDIT DODAAC	HAA813
SERVICE ACCEPTOR / SHIP TO	HTC711
SEND EMAIL NOTIFICATIONS TO:	
CONTRACT ADMINISTRATOR	TRISTAN TIKKANEN@USTRANSCOM.MIL
CONTRACTING OFFICER REPRESENTATIVES	RUBEN.RUIZ@USTRANSCOM.MIL
	DCAA-FAO2151@DCAA.MIL

ORDER FOR SUPPLIES OR SERVICES								PAGE 1 OF 10	
1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. HTC711-10-D-S002		2. DELIVERY ORDER/ CALL NO. 0008		3. DATE OF ORDER/CALL (YYYYMMDD) 2012 Feb 16		4. REQ./ PURCH. REQUEST NO. F3ST952020A001		5. PRIORITY	
6. ISSUED BY USTRANSCOM-AQ - HTC711 508 SCOTT DR SCOTT AFB IL 62225-5357				7. ADMINISTERED BY (if other than 6) SEE ITEM 6		8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER (See Schedule if other)			
9. CONTRACTOR CODE 3U6L5 RAYTHEON BBN TECHNOLOGIES CORP. NAME EILEEN NAYLOR AND 10 MOULTON ST ADDRESS CAMBRIDGE MA 02138-1119				FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) SEE SCHEDULE 12. DISCOUNT TERMS Net 30 Days		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED	
13. MAIL INVOICES TO THE ADDRESS IN BLOCK See item 15									
14. SHIP TO CODE F3ST95 USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357				15. PAYMENT WILL BE MADE BY CODE F87700 DFAS-LIMESTONE DEAMS - F87700 ACCTG DISB STA NR 387700 DFAS DEAMS 27 ARKANSAS RD LIMESTONE ME 04751-6216				MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.	
16. TYPE OF ORDER		DELIVERY/ CALL <input checked="" type="checkbox"/> PURCHASE		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract. Reference your quote dated Furnish the following on terms specified herein. REF:					
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.									
NAME OF CONTRACTOR				SIGNATURE		TYPED NAME AND TITLE		DATE SIGNED (YYYYMMDD)	
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:									
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE See Schedule									
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES			20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT	22. UNIT PRICE	23. AMOUNT
SEE SCHEDULE									
* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.				24. UNITED STATES OF AMERICA TEL: 618-220-7061 EMAIL: Lisa.Gross@ustrancom.mil BY: LISA A. GROSS				25. TOTAL \$296,124.00 EST	
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED				26. DIFFERENCES					
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE					c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE					28. SHIP NO.		29. DO VOUCHER NO.		30. INITIALS
f. TELEPHONE NUMBER		g. E-MAIL ADDRESS			31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR
36. I certify this account is correct and proper for payment.					34. CHECK NUMBER		35. BILL OF LADING NO.		
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER			37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)
40. TOTAL CONTAINERS		41. SR ACCOUNT NO.		42. S/R VOUCHER NO.					

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
2001	Software Releases LH FY12 AMP Maintenance and RCAT Enhancements. Integrated Management Schedule, PWS Para 1.3.1.4. AMP Software Releases (includes AT21) PWS Para 1.3.5.3. FY12 TWCF OPS (AT21 Funded). POP 17 Feb 12 through 30 Sep 12. FOB: Destination SIGNAL CODE: A	20,289.25	Lot	\$1.00	\$20,289.25
TOT ESTIMATED PRICE					\$20,289.25
CEILING PRICE					\$0.00
ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
200101	Funding For CLIN 2001 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST952020A001 SIGNAL CODE: A		Lot		
TOT ESTIMATED PRICE					\$0.00 EST
CEILING PRICE					\$0.00
ACRN AA CIN: 00000000000000076427					\$20,289.25

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
2002	AMP Software Maintenance LH FY12 AMP Maintenance and RCAT Enhancements- AMP Software Maintenance (includes AMP-PAT, RCAT and AT21) - Para 1.3.5.3 - FY12 TWCF OPS (AT21) POP 17 Feb 12 through 30 Sep 12. FOB: Destination SIGNAL CODE: A	71,731.27	Lot	\$1.00	\$71,731.27
TOT ESTIMATED PRICE					\$71,731.27
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
200201	Funding for CLIN 2002 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST952020A001 SIGNAL CODE: A		Lot		
TOT ESTIMATED PRICE					\$0.00 EST
CEILING PRICE					\$0.00
ACRN AA CIN: 00000000000000076428					\$71,731.27

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
2003	Persistence, Priorities, and MultiPort LH FY12 AMP Maintenance and RCAT Enhancements - Persistence, PWS Para 1.3.11.73.1. Requirements Priorities, PWS Para 1.3.11.73.2. Multi-Port Onloads and Offloads, PWS Para 1.3.11.73.3. TWCF OPS (AT21 Funded) POP 17 Feb 12 through 30 Sep 12. FOB: Destination SIGNAL CODE: A	204,103.48	Lot	\$1.00	\$204,103.48
TOT ESTIMATED PRICE					\$204,103.48
CEILING PRICE					\$0.00

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	AMOUNT
200301	Funding for CLIN 2003 LH FOB: Destination PURCHASE REQUEST NUMBER: F3ST952020A001 SIGNAL CODE: A		Lot		
TOT ESTIMATED PRICE					\$0.00 EST
CEILING PRICE					\$0.00
ACRN AA CIN: 00000000000000076429					\$204,103.48

Section E - Inspection and Acceptance

INSPECTION AND ACCEPTANCE TERMS

Supplies/services will be inspected/accepted at:

CLIN	INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
2001	N/A	N/A	N/A	Government
200101	Destination	Government	Destination	Government
2002	N/A	N/A	N/A	Government
200201	Destination	Government	Destination	Government
2003	N/A	N/A	N/A	Government
200301	Destination	Government	Destination	Government

Section F - Deliveries or Performance

DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	UIC
2001	POP 17-FEB-2012 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
200101	N/A	N/A	N/A	N/A
2002	POP 15-FEB-2012 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
200201	N/A	N/A	N/A	N/A
2003	POP 17-FEB-2012 TO 30-SEP-2012	N/A	USTC AT21 PMO - F3ST95 RUIZ, RUBEN 102 SOUTH ADAMS ST., BLDG. 4038 SCOTT AFB IL 62225-5357 618-256-6763 FOB: Destination	F3ST95
200301	N/A	N/A	N/A	N/A

Section G - Contract Administration Data

PWS

PERFORMANCE WORK STATEMENT
FOR
TASK ORDER (TO) 0008
ANALYSIS OF MOBILITY PLATFORM (AMP)
1 February 2012

1.0 DESCRIPTION OF SERVICES

1.1 Background. The Analysis of Mobility Platform (AMP) provides the United States Transportation Command (USTRANSCOM) with a modeling and simulation (M&S) environment for performing transportation analyses. Within this context of transportation analysis, AMP is also being applied to enable analytically-based AT21 operational decision-support capabilities.

1.2 Scope. This Performance Work Statement (PWS) contains maintenance and enhancements activities for the AMP Federation which will support the attainment of AT21 goals. Contract HTC711-10-D-S002 is incorporated by reference.

1.3 Specific Tasks. The specific task area in which the described support will be performed is enhancements.

1.3.1.4 Task Area 1 Subtask 4 – Integrated Management Schedule (IMS). The contractor shall develop and deliver to the PM an IMS in Microsoft Project format that provides a schedule for all major milestones as currently tasked to the contractor. It shall also include anticipated future work to support schedule and workload de-confliction. The IMS shall include a high-level Master Schedule which lists the major milestones and completion dates associated with each. The IMS shall also include sub-tasks necessary to achieve the milestone and scheduled completion dates for each sub-task. The IMS delivered to the government shall address development, test, and deployment for software releases containing approved new system capabilities, and shall show the critical path. The contractor shall keep this schedule current, making schedule changes as necessary after coordinating these changes with the PM. The IMS shall be delivered with the MSR, or when circumstances necessitate a change to the schedule, whichever occurs first.

Deliverable: IMS

1.3.4 Task Area 4 – AMP Software Maintenance (includes AMP-PAT, RCAT, and AT21). The contractor shall correct problems that AMP, RCAT, and the three AT21 enhancements herein (1.3.11.73.1 – 1.3.11.73.3) users encounter with the software, and shall conduct unit, integration, and regression testing of these fixes.

The contractor shall:

- Facilitate and administer the AMP problem reports management process.
- Code, test, document, and support full integration of software and software releases.
- Propose release content and schedules based upon software maintenance priorities directed by the AMP Configuration Control Board (CCB).
- Provide software level of effort, cost, and schedule estimates, and include justification and confidence level behind the estimates.
- Designate a lead engineer for the software engineering and technical interactions with USTRANSCOM.
- Provide configuration management (CM), quality assurance (QA), and documentation for all AMP software.

1.3.5.3 Task Area 5 Subtask 3 – AMP Software Releases (AT21 enhancements). The contractor shall bundle and deliver the three AT21 enhancements (1.3.11.73.1 – 1.3.11.73.3) with scheduled AMP software releases.

1.3.8. Task Area 8 – Security Engineering and Cyber Security Requirements

1.3.8.1 Task Area 8 Subtask 1 – Security Engineering Requirements

1.3.8.1.6 Malicious Code Warranty. The Contractor represents and warrants that the software, upon delivery, shall be free from all computer viruses, worms, time-outs, time bombs, back doors, disabling devices and other harmful or malicious code intended to or which may damage, disrupt, inconvenience or permit access to the software user's or another's software, hardware, networks, data or information. Upon delivery of all software provided as part of the contractor's solution to program requirements, the government will scan and test the software, if malicious code is discovered it shall be the responsibility of the contractor to correct the issue. Upon government acceptance of the software it is the government's responsibility to protect the software. However, after government acceptance if it is discovered the contractor's facility was breached or a malicious insider inserted modified code into the delivered software it shall remain the responsibility of the contractor to correct the issue, and government will not be liable to pay the contractor additional funds to correct the issue.

1.3.11 Task Area 11: Enhancements

1.3.11.73 AT21 Enhancements

1.3.11.73.1 Persistence. The contractor shall modify the software to provide the ability to persist requirement line number (RLN) movements between runs. This will include the capability for a requirement to be “locked down”, ensuring that select air and/or sea missions are the same (persist) from run to run.

1.3.11.73.2 Requirement Priorities. The contractor shall modify the current requirement movement capability by adding an additional GUI input within the Requirements Editor to allow users to prioritize the movement of requirements with the same latest arrival date (LAD) or required delivery date (RDD).

1.3.11.73.3 Multi-Port Onloads and Offloads. The contractor shall modify the current movement capabilities to include the ability to onload cargo at multiple POEs, which are all bound for the same POD. The contractor shall also modify the current movement capabilities to include the ability to offload cargo at multiple PODs. The contractor shall ensure that single missions can both onload and offload at multiple POEs and PODs. The contractor shall develop this capability for both air and sea movements.

1.4 Deliverables. The contractor shall deliver data and software (with applicable data rights) as set forth in the below tables. IAW DFARS 252.227-7013 and DFARS 252.227-7014, the Government obtains under this contract “unlimited rights” to all non-commercial computer software, software source code, computer software documentation, enhancements, technical data, and similar non-commercial data developed exclusively at Government expense and delivered to the Government under this contract. “Unlimited rights” means rights to use, modify, reproduce, release, perform, display or disclose in whole or in part, in any manner and for any purpose whatsoever, and to have the ability to authorize others to do so. The contractor agrees that regardless of how contractor provided data/software is developed or modified during contract performance, the contractor will deliver data/software marked IAW requirements in DFARS 252.227-7013, 252.227-7014, or other applicable reference. For all other non-commercial data delivered under this contract, the Government has the right to use, modify, reproduce, release, display or disclose, in whole or in part, in any manner and for any purpose whatsoever, and to have or authorize others to do so.

The contractor shall prepare all deliverables using a Government-supported version of Microsoft Office (including Access, as necessary) or Microsoft Project software, with the exception of source code, which the contractor shall provide in native code language. The contractor shall upload files directly into the USTRANSCOM-provided Joint Deployment Planning and Analysis Center webshare. If the contractor is unable to load the deliverable file(s) on the webshare, then the contractor shall provide a soft copy of each deliverable via e-mail to ustcj6-pcm@ustrancom.mil. Should this second method of transmittal prove unsuccessful, the contractor shall provide the

required deliverables on compact disk (CD) or digital video disk (DVD) with a typewritten label that states contract and task order number, PWS task number, and deliverable title(s). Multiple deliverables may be combined on a single CD or DVD.

The contractor shall provide the deliverables according to the delivery schedule specified in the table below. All references to days are defined as business days unless otherwise specified. "Format", as used in the table below, refers to the structure of the report.

PWS Para	Deliverable	Format	Draft for Comments	Final Due Date	Asserted Rights
1.3.1.4	IMS	MS Project	10 calendar days after Task Order award; Updated monthly (included in MSR) or when schedule changes	5 calendar days from receipt of Government comments	N/A
1.3.5.3	Software Release	Contractor-Determined Format	Initial delivery at scheduled Production Readiness Review (PRR)	Final delivery at scheduled Operational Readiness Review (ORR), or at Government's request, end of performance period. (Note: Current and future AT21 enhancements shall be bundled and delivered with scheduled AMP software release.)	Unlimited

2.0 SERVICE DELIVERY SUMMARY (SDS)

The SDS represents the most critical contract performance objectives that, when met, will ensure contract performance is satisfactory. Although not all PWS requirements are listed in the SDS, the contractor shall comply with all requirements in the PWS.

Performance Objective	PWS Para	Performance Threshold
Develop and Deliver IMS	1.3.1.4	Documents: No more than one (1) late delivery of draft and no more than 5 days late. Documents should contain no more than 1 critical or more than 4 substantive comment per document. No more than 2 sets of revisions/corrections with all revisions/corrections accomplished or incorporated by due date. (A second "set" may be necessary should Government comments be required on the second draft (or "final") delivery in response to the first set of Government comments.)

2.1 Inspection and Acceptance. A deliverable is a specific measurable, tangible, and verifiable activity, outcome, result, item, or product that the contractor may be required to provide and that will require formal Government acceptance and approval. The Government will review, assess and provide comment, as required.

Final inspection and acceptance of all work performed, reports, or other deliverables shall be performed at the place of delivery. The PM will notify the contractor of deliverable acceptance or provide comments in writing. After receipt of government comments, the contractor, if necessary, shall revise and resubmit the final deliverable to the PM within the number of business days specified in the deliverable table.

3.0 GOVERNMENT-FURNISHED PROPERTY AND SERVICES

3.1 Government-Furnished Equipment (GFE). All provisions of the Contract HTC711-10-D-S002 apply.

3.2 Facilities. No facilities specified.

4.0 GENERAL INFORMATION.

4.1 – 4.3 All provisions of the Contract HTC711-10-D-S002 apply.

4.4 Place of Performance. All development activity shall be conducted at a contractor facility not located within the confines of Scott AFB.

4.5 Travel. No travel is anticipated in support of this Task Order.

4.6 – 4.7 All provisions of the Contract HTC711-10-D-S002 apply.

4.8 Period of Performance. The period of performance shall be from date of award through 30 September 2012.

ACCOUNTING AND APPROPRIATION DATA

AA: 97X4930.FD50 6F2 70AB 12903 G04N70 70210 00000F 387700 F87700

AMOUNT: \$296,124.00

CIN 000000000000000076427: \$20,289.25

CIN 000000000000000076428: \$71,731.27

CIN 000000000000000076429: \$204,103.48