Attachment 1

Secure Border Initiative (SBI*net*)

Command, Control, Communications, and Intelligence (C3I) System Development and Sustainment

Statement of Work (SOW)
Version 3

Contract: HSBP1006D01353
Task Order: HSBP1208J19363

Attachment 1

Record of Changes

Change Number	Date	Reference (Table, Figure, or Paragraph Sections)	A=Add M=Modify D=Delete	Brief Description of Change	Change Request #
N/A	12/7/2007	Version 1		Initial	
1	5/29/2008	Version 2	M	Added detailed requirements and activities for NOC/SOC, Release 0.5 Service Pack One, and Intelligence System Capability Evaluations. Updated schedule and deliverables based on delayed delivery of Release 0.5 and start of Release 1.0.	P00001
2	12/16/2008	Version 3	M	Revised detailed requirements and activities for NOC/SOC, and termination of Release 1 activities	P00010

Attachment 1

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1 Purpose

1.1 Engineering, Technical and Management Services

The purpose of this Statement of Work (SOW) effort is for the Contractor to provide **engineering, technical and management services** under the SBI*net* Indefinite Delivery Indefinite Quantity (IDIQ) SOW to:

a. Develop and document the SBInet Command, Control, Communications and Intelligence (referred to as C3I) requirements in compliance with the SBInet System specification (A-Spec), the Department of Homeland Security (DHS) Enterprise Architecture, US Customs and Border Protection (CBP) Enterprise Architecture, SBI*net* Operational Requirements Document (ORD), SBI*net* Concept of Operations (CONOPS) and CBP System Life-Cycle (SLC) process framework (as tailored herein)

b. Design, develop, and demonstrate a functional prototype of an SBInet (C3I) system, to include classified and unclassified segments

c. Design, and develop the Command, Control, and Intelligence (C2I) system and support operational testing of the system to demonstrate operational capabilities in accordance with the requirements

d. Establish the Integrated Logistics Support (ILS) program to support the C2I and communications components of the system in conjunction with SBInet system deployment to end users (note that at the completion of C2I development, C2I ILS may be performed under an overarching ILS task order)

e. Provide ***interim*** COP functionality (herein referred to as "C2I Release 0.5") for all SBI*net* deployments (i.e., Tucson, Yuma, El Paso Task Orders) until the first release of the C2I system (paragraph 1.1.c.) is mission capable

f. Maintain the ***interim*** C2I Release 0.5 system until the all instantiations of this system are replaced by the first release of the C2I system

g. Provide software release support for the deployment of the interim C2I Release 0.5 system as necessary to support all SBI*net* deployments (i.e., Tucson, Yuma, El Paso Task Orders) until the first release of the C2I system is mission capable

1.2 C3I System to be Deployed

The **C3I system to be deployed** as a result of this SOW includes developmental software, commercial software, commercial hardware, and the supporting infrastructure to deploy and maintain C3I system. Specifically, the C3I system shall provide:

a. A development and maintenance environment (including facilities as necessary) to develop, operate and sustain the C2I system (including commercial third party license agreements)–including personnel training, software maintenance, status reporting, and continuity of operations

b. Training and logistics support necessary to transition the system to a CBP workforce capable of operating and maintaining the C2I system

c. Software and software support for CBP training facilities to include online software training modules and simulations to be conducted as part of the overall user / operator training to be delivered under Integrated Logistics Support Task Order(s)

d. Support for all participating enterprise organizations and stakeholders that will provide, request, and receive intelligence data and information

e. Software and software support for existing and planned Command, Control, and Intelligence (C2I) facilities within the DHS command structure, CBP Border Patrol Sectors, Office of Field Operations (OFO) Port and field offices, and Air & Marine (A&M) facilities. The current facilities are depicted in (Figure 1) below:

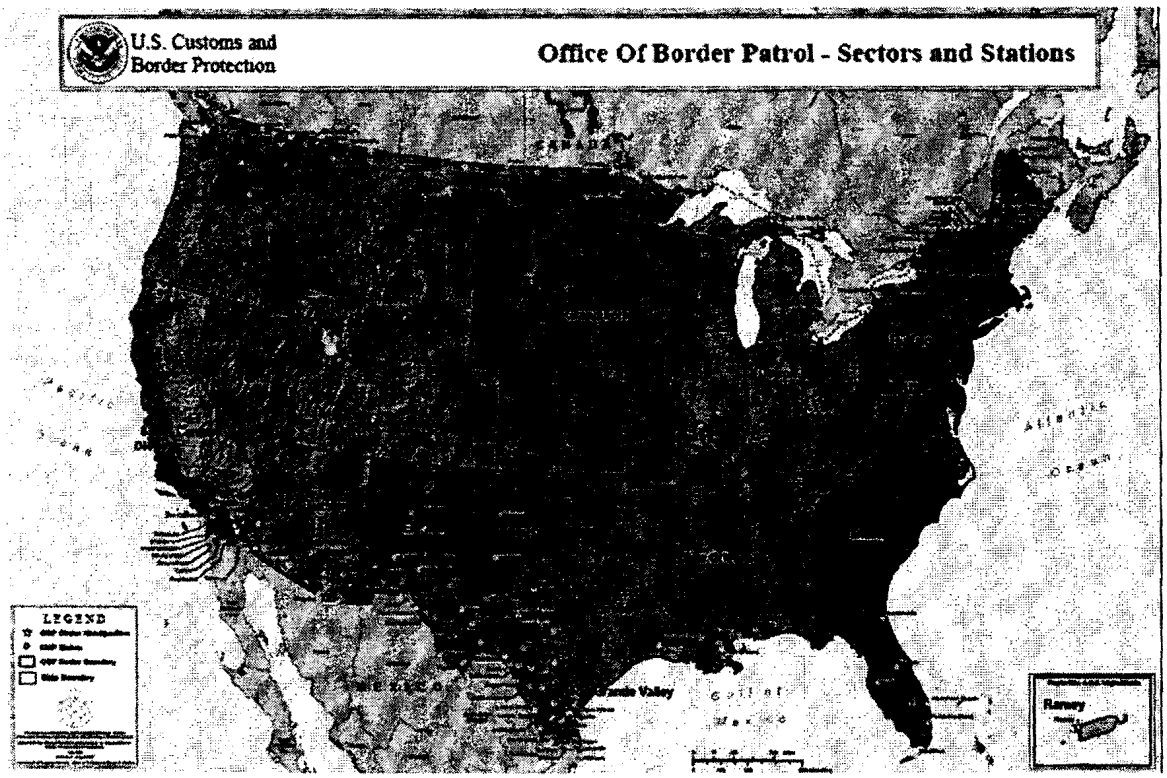

Figure 1. Current CBP Facilities

f. C2I services for DHS users, allied Federal partners, and Tribal, Regional, State, and Local government organizations, plus other external users as appropriate

g. Multi-layer security capabilities as necessary to support intelligence processing and operations within both unclassified and classified environments

1.3 Alignment with Deployment Task Orders

It is anticipated that the deployment of C3I hardware components within specified geographic areas, including the requisite supporting infrastructure will be procured under separate "deployment" task orders. The C3I system will take maximum advantage of DHS current and planned communications and facilities infrastructure. As part of the spiral development process, the contractor shall recommend improvements to the performance and value of the C3I system for each spiral.

2 Background

2.1 Associated Task Orders

Based on the Indefinite Delivery, Indefinite Quantity (IDIQ) contract, the Government awarded two task orders to Boeing, a task order to provide management and systems engineering services necessary to develop the SBI*net* "System." and a task order to provide an initial SBI*net* capability along the border near Tucson, AZ (referred to as Project 28). Boeing (from hereon referred to as the Contractor) has since developed a limited C3I capability under Project 28 and has delivered the SBI*net* System A-level Specification (A-Spec) to establish the requirements for the SBI*net* system. This system, once deployed, will be instrumental in assisting CBP in achieving control of the border.

2.2 Spiral Development Approach

The contractor shall incorporate a spiral development approach to develop the C2I system software and assist the Government in reaching a C3I capability. The spiral approach shall result in multiple releases where each subsequent release includes the incremental addition of functionality and/or an evolutionary improvement in system capability. This approach shall be based on two phases:

a. Phase 1 (to be accomplished once at the beginning of the project):
   - A software plan and development environment to support requirements, design, and development of the C2I software
   - An initial software support environment to manage releases of the C2I software to the field (including bug fixes/patches, and retrofit to prior baselines)
   - An assessment of and a set of requirements for current and planned CBP and DHS supporting systems and infrastructure that require modifications and additional capacity in order for the C2I system to function once deployed (command center infrastructure, communications capabilities, data processing and information sharing/delivery services)

b. Phase 2 (activities to be repeated for each software release):
   - Prototype, including a simulation
   - Collaborative C2I requirements and design (RAD/JAD)
   - Detailed C2I design, testing, and delivery of the system
   - Release, delivery, and installation support of the C2I system (including training software) into the target environment(s) (including retrofit for previous releases)
   - Software support/maintenance

At the Government's request, the contractor shall support the transition of the development and maintenance environment(s) to the Government.

3 Objectives

3.1 Control of the US Land Borders

The six elements described below form the primary mission of the SBI*net* program and are necessary for CBP to gain control of the US land borders. Border control means gaining full control of the US borders so illegal immigration as well as security breaches can be prevented. Border control is achieved in a given area when CBP, is able to consistently meet all of the elements listed below.

a. 'Predict' element - Anticipating the actions of an Item of Interest (IoI) prior to illegal activity.

b. 'Deter' element - To dissuade illegal cross border activity into and out of the US by impeding entry or creating and conveying the certainty of detection and apprehension.

c. 'Detect' element - To discover a possible IoI.

d. 'Identify' element - To determine whether an IoI is a conveyance, a human, an animal, or another entity.

e. 'Classify' element - To determine the potential intent and/or level of threat of an IoI.

f. 'Respond/Resolve' element - Employ an appropriate level of law enforcement resources to successfully address an IoI; Final CBP action taken, whether criminally, administratively, or otherwise, of an IoI.

3.2 Spiral Approach

The primary objective of this SOW is for the Contractor to develop and support deployment of an operational C2I system through the use of a collaborative environment suitable for rapid application development (RAD) and joint application design (JAD). The RAD/JAD methodology shall incorporate a spiral model that results in requirements and design documentation that is fully vetted and reviewed by the C3I system stakeholders. The approach will include functional prototypes to successfully demonstrate system performance. This approach will result in multiple releases of the system where each subsequent release includes the incremental addition of functionality and/or an evolutionary improvement in system capability.

End users will be directly involved in the development of the C2I systems and graphical user interfaces to ensure solutions are tailored to each user class. This collaborative development approach shall also incorporate communications analysis and requirements to achieve full C3I system functionality and allow for the Government-Contractor team to continuously re-evaluate and update the strategy, Concept of Operations, and Deployment Plan for the SBI*net* C3I system.

The initial "spiral" of the C3I system was developed by Boeing as part of the deployment of Project 28 .The contractor shall incorporate the lessons learned, requirements, and design documentation from Project 28 as an input to the future development of the SBI*net* C3I system.

3.3 C2I System Objectives

The C2I system delivered by the contractor shall provide:

a. Effective control and operation of SBI*net* surveillance and detections systems

b. The generation, maintenance and dissemination of detection and "blue force" tracks

c. Situational awareness of activities within the area of interest to inform decision-making

d. Integration and interoperability with existing and planned near-term DHS intelligence capabilities to include collection, processing and dissemination within a secure environment

e. Integration and interoperability with existing and near-term planned tactical decision aids for optimal use of CBP assets, increased operational safety, and improved mission performance. Key integration targets for integration and fielding include, but are not limited to, Border Patrol Enforcement Tracking System (BPETS), Enforcement Case Tracking System (ENFORCE), Environmental Systems Research Institute, Inc. (ESRI) ArcGIS, the Remedy asset management system, Operational Requirements Based Budget Program (ORBBP) and Automated Targeting System (ATS)

f. Control of communications systems

g. Integration with apprehension, identification, license plate query/reader, and booking capabilities (e.g., Treasury Enforcement Communication System)

h. Training and training support, including training simulation software

i. Software maintenance/sustainment of the C2I system (including training/simulation software)

3.4 C3I Deployment Approach

The C3I deployment alternatives delivered by the Contractor shall include:

a. Concept of Operations (including input on required CBP resources from existing operational CBP assets) for employment of C3I solution

b. Bill-of-materials for information and communications technology

c. Bill-of-materials for infrastructure (construction components for command center facilities, communications towers, power, and networking)

d. Bill-of-materials for intelligence collection and processing technology, including deployed information gathering electronic suites (LETC and motion imagery gathering components)

e. Additions to the SBInet system toolbox

f. Set of locations for deploying and/or modifying C3I technology and infrastructure, including an inventory confirming the ability of these locations to carry the required infrastructure, and remediation and/or improvement plans for those locations unable to meet the infrastructure requirements without additional work

g. Required upgrades to existing and planned communications network assets

h. Required upgrades to existing and planned Data Center / Management assets

i. Plan of action and milestones for deploying the system, including recommended milestones and deliverables in alignment with capital asset improvement and facilities management systems and contracts in place for chosen locations

j. Logistics analysis and projections for sustaining the C3I system; including total life cycle cost profile, with training, staffing, capital costs allocated by standard reporting

mechanisms in place for the DHS enterprise architecture and business management processes, including OMB reporting on major investments, and related systems

3.5 Compliance Objectives

In addition, the solution shall:

a. Comply with the System A-Spec

b. Leverage the lessons-learned, requirements, and design information from Project 28

c. Comply with geographic area-specific Project Technical Requirements

d. Comply with the DHS and CBP Enterprise Architecture(s), IT standards, and enterprise standards of practice, including data models, information sharing and communications protocols, as well as standard technologies and data warehousing programs

e. Leverage the existing DHS Enterprise HSDN program and comply with the governance framework it has established to service requirements for accessing secret level information and hosting secret level systems

f. Encompass the necessary technology, communications infrastructure, tactical infrastructure, transportation assets, training assets, necessary services, and recommendations for the optimum deployment of CBP personnel assets

g. Minimize total ownership cost to the Government

h. Comply with environmental and land use requirements.

4 Scope of Work

4.1 Technical, Engineering and Management services

The scope of this task order includes the full range of technical, engineering and management services required to provide C3I requirements; and design and develop an integrated C3I system that, when incorporated with the SBI*net* "lay-down" solutions deployed across the required geographic areas, complies with the requirements of the SBI*net* A-Spec.

4.2 Collaborative Development Environment

The Contractor shall develop an operational C2I system through the use of a collaborative environment suitable for RAD/JAD. The RAD/JAD approach provided by the contractor shall incorporate a spiral model that results in requirements and design documentation that is fully vetted and reviewed by the system stakeholders; and includes functional prototypes that demonstrate system performance, support contractor integration testing and evaluation, and involve end users in the development of the C2I graphical user interface tailored to each user class. This spiral development approach shall allow for the Government-Contractor team to continuously re-evaluate and update the strategy, Concept of Operations, and Deployment Plan for the SBI*net* C3I system.

4.3 Enterprise Architecture Compliance

The operational C2I system shall integrate information from, and be fully compliant and interoperable with current C3I and related DHS enterprise information systems. The systems shall use the common operating systems identified in the Department's Geospatial Information Infrastructure, and centralize data storage to the Department's data center(s). The solutions must be vetted through, and compliant with, the DHS Enterprise Architecture Review board

and Investment Review Board (IRB) processes for Management Decision Point milestones, and adhere to DHS Management Directives 1400 and 0007.1. The program will ensure that the design conforms to the DHS and CBP enterprise architecture, the DHS and CBP technical reference models (TRM), and all DHS and CBP infrastructure policies and guidelines as promulgated by the DHS and CBP Chief Information Officers (CIO) and Chief Technology Officers (CTO). The program will conform to the federal enterprise architecture (FEA) model and the DHS and CBP versions of the FEA model as described in their respective RAs. Development solutions will also ensure compliance with the current version of the DHS target architecture standards profile. Where possible, the program should use DHS/CBP approved products, standards, services, and profiles as reflected by the hardware, software application, and infrastructure components of the DHS/CBP TRM/standards profile. If new hardware, software or infrastructure components are required to develop, test, or implement the program, these products will be coordinated through the DHS and CBP formal technology insertion process. The DHS/CBP TRM/standards profile will be updated as technology insertions are accomplished. The program will submit to the DHS and CBP system lifecycle methodology (SLC), seeking all established gate reviews and the architectural alignment assessments (AAA) associated with each gate.

4.4 Intelligence System

The C2I system shall include an operational system which integrates existing intelligence tools and creates new capabilities in alignment with stakeholder requirements. Deployment of this system shall result in a standardization of core SBI*net* intelligence functions, integrated within the existing DHS intelligence architecture, to include both classified and unclassified networks. Moreover, the Government anticipates separate networks with different instances of the COP software separated with a high assurance guard (HAG).

4.5 Training Support

The contractor shall develop and maintain C2I on-line (or computer-based (CBT)) training, training materials, and training simulation software. These training products shall be capable of supporting SBI*net* training programs to be provided under the Integrated Logistics Support (ILS) task order.

4.6 Production and Testing Environment

Finally, the contractor shall deliver development, production, and testing (including integration) environments capable of supporting C2I and training software deployment to specified geographic areas and DHS stakeholders, in accordance with the SBI*net* deployment schedule

The work to be accomplished by the contractor shall be in alignment with the CBP SLC and the SBI*net* Systems Engineering Management Plan (SEMP). At a minimum, the contractor shall perform (a) requirements capture and management, (b) trade studies, (c) software design (d) software development, (e) software configuration management (CM), (f) data configuration management, (g) software and hardware integration, (h) operations and maintenance planning, (i) architecture definition, (j) life cycle cost and supportability analysis, , (k) software test planning and testing, (l) software integrated logistics planning, and (m) C2I facilities requirements analysis.

4.7 Alignment with IDIQ SOW

The scope of this task order maps to Section 6 of the IDIQ SOW as outlined in Appendix A. The Contractor shall perform the work under this task order as necessary to achieve the objectives of this task order in accordance with the detailed tasks described in Section 5 below

4.8 Security

The Contractor shall comply with all CBP security policies and procedures as stated in the original contract (HSBP1006D01353) to include any and all modifications to the contract. Specifically, the contractor may begin work on the contract if the contractor has an active DoD clearance of secret or top secret. However, the contractor shall submit a completed DHS security package within 10 calendar days to be in full compliance with CBP's Security Programs Division.

5 Detailed Tasks

Detailed tasks to be performed under this SOW shall be in accordance with the activities required in the CBP SLC (project stages) as tailored below, and are mapped to the SBI*net* IDIQ SOW in Appendix A.

5.1 Phase 0: C2I Interim Capability

The contractor shall provide an ***interim*** C2I capability to support all SBI*net* deployments (i.e., Tucson-1 and Ajo-1) until the first release of the C2I system (delivered under paragraph 5.3.1 of this task order) is mission capable.

5.1.1 Operational Archetype

The contractor shall provide the C2I functionality necessary to operate and interface with the SBI*net* "toolbox" components (e.g., sensors, communications equipment, field agent systems) that have been deemed by the Government to be suitable for initial deployments prior to the completion (Initial Operating Capability) of Tucson, Yuma, and El Paso deployments.

5.1.1.1 C2I Release 0.5 Requirements

In coordination with the SBI*net* program office and mission stakeholders, the contractor shall develop and document the C2I Interim Capability Archetype (ICA) requirements.

(Reference Deliverables (Release 0.5 Specific): C2I Software Requirements Specification and Related DOORS database, C2I Interface Control Document(s), Requirements Traceability Matrix, Architecture Description Document, , Security Architecture Design Document, C2I Development Lessons-Learned, Software Test Plan)

5.1.1.2 C2I Release 0.5 Design

In coordination with the SBI*net* program office and mission stakeholders, the contractor shall develop and document the C2I ICA design.

(Reference Deliverables (Release 0.5 Specific): C2I Software Requirements Specification and Related DOORS database, C2I Interface Control Document, , Requirements Traceability Matrix, Architecture Description Document, Security Architecture Design Document, C2I Development Lessons-Learned, Software Test Plan, Intermediate Test Requirements, Intermediate Test Cases, Intermediate Test Procedures, C2I Software Design Document, Software Design Description, Database Design Document, Interface Design Description, Spiral Software Deliverable Version Description Document, Intermediate Test Results, Process Audit

Checklists/Records, Installation Plan, Software Unit Test Results, C2I Code Library, C2I Performance Metrics Report, User Manual, Operator Manual, Training Materials)

5.1.1.3 C2I Release 0.5 Development

In coordination with the SBI*net* program office and mission stakeholders, the contractor shall develop, demonstrate, and test the C2I ICA prior to deployment. This effort shall include integration testing to verify functionality with SBI*net* components and interfacing systems. The contractor shall support Government review and testing activities required to receive DHS/CBP approval to operate the system once deployed.

(Reference Deliverables (Release 0.5 Specific): C2I Software Requirements Specification and Related DOORS database, C2I Interface Control Document, , Requirements Traceability Matrix, Architecture Description Document, Security Architecture Design Document, C2I Development Lessons-Learned, Software Test Plan, Intermediate Test Requirements, Intermediate Test Cases, Intermediate Test Procedures, C2I Software Design Document, Software Design Description, Database Design Document, Interface Design Description, Spiral Software Deliverable Version Description Document, Intermediate Test Results, Process Audit Checklists/Records, Installation Plan, Software Unit Test Results, C2I Code Library, C2I Performance Metrics Report, User Manual, Operator Manual, Training Materials, Software Maintenance Procedures)

5.1.2 C2I Release 0.5 O&M Support

5.1.2.1 Project 28 Retrofit

Contractor O&M support for Release 0.5 shall include the retrofit/upgrade and subsequent operations, and maintenance of the improvements made to the Project 28 COP ("Released as part of the Tucson-1 deployment).

5.1.2.2 ICA Deployment, Operations, and Maintenance

Following deployment of software to the production site, the Contractor shall support regression testing. The Contractor shall support site integration and System Acceptance Test, and shall maintain configuration management of the Spiral Software throughout this process. The Contractor shall support the SBI*net* System Operational Readiness Review after successful installation, integration, and SAT.

The contractor shall support the deployment, operations, and maintenance of the interim C2I ICA system until the all instantiations of this system are replaced by the first release (Release 1) of the C2I system (delivered under paragraph 5.3.1 of this task order). This effort shall include system software to support Tucson-1, Ajo-1, and all other SBI*net* deployments planned prior to subsequent C2I capabilities developed under this task order ("Releases 1-n").

Contractor performance for the ICA O&M support shall include:

a. System Performance monitoring and management feedback
b. Tracking and reporting of system performance statistics, costs, and resource allocations
c. Detecting and addressing defects in training, application, operation, and local systems
d. Assessing the system's efficiency and effectiveness to determine if the investment was cost beneficial and achieved the planned functionality

e. Managing and addressing system and infrastructure problems

f. Recovering from system and infrastructure problems

g. Implementing system and infrastructure changes

h. O&M support for C3I training system software, to include computer based training aids and training simulations.

(Reference Deliverables: C2I Implementation Plan, Software Support and Maintenance Plan, C2I Training Plan, Training Materials, User Manual, Operator Manual, C2I System Performance Metrics Report, Software Metrics Report, C2I Total Lifecycle Cost Analysis/Model)

5.1.3 Operational Archetype Service Pack One

5.1.3.1 Service Pack One Requirements

In coordination with the SBI*net* program office and mission stakeholders, the contractor shall design, develop, test, deliver, and document the requirements for a "Service Pack" update to the Release 0.5 Operational Archetype. The Release 0.5 "Service Pack One" shall include the following features as discussed and documented during previously conducted Release 0.5 RAD/JAD sessions, to include the following functionality/features:

- Integrated video recording and playback
- Customized large screen situational awareness display
- Additional HMI functions for field supervisors
- Integrated data management
- Data reporting
- Improved correlation, fusion, and radar tracks
- Improved camera management
- Sensor environmental presets
- Camera configuration presets
- Cut and drag marking support

5.1.3.2 Service Pack One Implementation

At the time of Service Pack One delivery, it is expected that the C3I Release 0.5 software and the associated program documentation will have been completed and baselined as identified in paragraph 6.2.12 CDRLs. The contractor shall incorporate Service Pack One features/functionality through the preparation and coordination of the necessary change requests through the Contractor's and Government's joint CCB processes. The Contractor shall prepare and submit a Service Pack One Implementation Plan describing all expected document changes, design changes, reviews required (including expected Government review comment timeline), review and delivery schedule, and project baseline (work package) changes.

When directed by the Government CCB, the Contractor shall implement the Service Pack One changes in the C3I COP software baseline. The Contractor shall perform testing as

necessary, including regression testing, to demonstrate correct operation of the Service Pack One feature(s). Finally, the Contractor shall obtain approval from the C3I Information Systems Security Manager that the changes do not impact the security profile of the system.

(Reference Deliverables: Release 0.5 Archetype Service Pack One Implementation Plan)

5.2 Phase 1: C3I Architecture Requirements; Development and Support Framework

The contractor shall accomplish the following activities once:

5.2.1 Initial Support Environment

The contractor shall evaluate and recommend implementation alternatives to provide C2I operations and maintenance (O&M) capabilities within the CBP mission support structure (SBI*net* and OIT). These alternatives shall consider mission needs; continuity of operations; current and planned facilities; technical support staffing, response times; and locations and numbers of deployed systems. Once approved by the Government, the contractor shall provide O&M of the C3I system using the support environment. At the Government's request, the contractor shall transition this environment to the Government.

5.2.1.1 Initial Support Environment Development

In coordination with CBP operations and maintenance stakeholders, the contractor shall design and implement an environment capable of sustaining the SBI*net* system once deployed. This environment shall have the capability of monitoring the C3I system status, trouble-shooting system problems, tracking and reporting problem resolution, providing tools for software and hardware repair and upgrades, managing software and hardware configuration changes, and managing and maintaining the systems security posture of the system.

(Reference Deliverables: Software Development Plan, Spiral Build Plan, C2I Implementation Plan, Software Support and Maintenance Plan)

5.2.1.1.1 Network Operations Center (NOC) Requirements

The contractor shall analyze the requirements for managing and operating the communications and computing networks and infrastructure specific to the C3I system. This analysis shall be in accordance with the CBP and DHS Enterprise Architecture and shall be conducted as a partnership with SBI*net* Information Technology (IT) support stakeholders within CBP and DHS and leverage current and planned capabilities. As a minimum, the contractor shall specify the following requirements:

a. CONOPS for the NOC

b. Staffing estimates

c. Heating, ventilating, and air conditioning (HVAC)

d. Workspace, including common areas and dedicated (secure) areas for intelligence operations

e. Software tools

f. Physical and electronic security, including unique requirements for intelligence processing and planning

g. Computer processing requirements

h. Communications requirements

i. Data storage requirements, including unique requirements for intelligence data (both unclassified and classified)

j. Power, including backup

k. Facility space requirements for data and computer processing

(Reference Deliverables: Network Operations Center Plan, Updates to Enterprise Data Management Plan)

5.2.1.1.2 Security Operations Center (SOC) Requirements

The contractor shall analyze the requirements for security management and monitoring of the communications and computing networks and infrastructure specific to the C3I system. This analysis shall be in accordance with the CBP and DHS Enterprise Architecture and shall be conducted as a partnership with SBI*net* Information Technology (IT) support stakeholders within CBP and DHS and leverage current and planned capabilities. As a minimum, the contractor shall specify the following requirements:

a. CONOPS for the SOC

b. Staffing estimates

c. Heating, ventilating, and air conditioning (HVAC)

d. Workspace, including common areas and dedicated (secure) areas for intelligence operations

e. Software tools

f. Physical and electronic security, including unique requirements for intelligence processing and planning

g. Computer processing requirements

h. Communications requirements

i. Data storage requirements, including unique requirements for intelligence data (both unclassified and classified)

j. Power, including backup

k. Facility space requirements for data and computer processing

(Reference Deliverables: Security Operations Center Plan, Updates to Enterprise Data Management Plan)

5.2.1.1.3 NOC/SOC Functional Requirements

In coordination with the SBI*net* program office and mission stakeholders, the contractor shall develop and document the functional requirements needed for the NOC/SOC. Once the requirements have been baselined any subsequent changes shall be re-delivered via the CCB as described in the SBI*net* Configuration Management Plan.

(Reference Deliverables: NOC/SOC Requirements Specification and Related DOORS database, NOC/SOC Interface Control Document(s), , NOC/SOC Test Plan/Procedure/

Descriptions, System Test Plan, NOC/SOC Security Architecture Design Document, Security Accreditation Information (maintained in DHS RMS))

5.2.1.1.4 NOC/SOC Design

In coordination with the SBI*net* program office and mission stakeholders, the contractor shall develop and document the two-phase NOC/SOC system design conforming to the requirements of paragraphs 5.2.1.1.1 and 5.2.1.1.2 above and meeting the functional requirements of paragraph 5.2.1.1.3. It is expected that this design will be implemented by selected COTS components. The design document shall describe how the COTS components are to be integrated to provide an integrated approach to security and network management. Phase 1 (Baseline) Design shall be a minimum NOC/SOC capability to support System Qualification Testing. Phase 2 (Enhanced) Design shall provide a robust implementation of the functional requirements of paragraph 5.2.1.1.3. *(Reference Deliverables: NOC/SOC System Design DocumentDescription, Release 0.5 Database Design Document, NOC/SOC Security Architecture Design Document Security Information (maintained in DHS RMS), ,)*

5.2.1.1.5 NOC/SOC Development and Testing

Based upon the requirements provided under paragraph 5.2.1.1.3 and the design created in paragraph 5.2.1.1.4, the contractor shall develop, demonstrate, and test the NOC/SOC prior to deployment. This effort shall include integration testing to verify functionality with SBI*net* components and interfacing systems. The contractor shall support Government review and testing activities required to receive DHS/CBP approval to operate the system once deployed.

5.2.1.1.5.1 **Phase 1 (Baseline) Development and Testing**

The objective of the Phase 1 (Baseline) NOC/SOC is to provide an interim capability to support System Qualification Testing at Playas, NM. This system shall undergo a complete systems integration test to ensure that the NOC/SOC is fully integrated and performing as required in support of System Qualification Testing. Following the systems integration testing and prior to commencement of System Qualification Testing, the contractor shall perform a NOC/SOC Component Qualification Confidence Test as described in paragraph 5.4.15.3 as a risk reduction measure for the Component Qualification Testing that shall be conducted on the Phase 2 (Enhanced) NOC/SOC system.

(Reference Deliverables: NOC/SOC Test Plan/Procedure/ Descriptions, NOC/SOC Design Description, Version Description Document, NOC/SOC Test Report, NOC/SOC Security Architecture Design Document and Security Information (maintained in DHS RMS)),

5.2.1.1.5.2 **Phase 2 (Enhanced) Development and Testing**

The objective of the Phase 2 (Enhanced) NOC/SOC is to provide the full capability for deployment to TUS-1. The contractor shall perform a NOC/SOC Test Readiness Review and Component Qualification Test as described in paragraph 5.4.15.4. This test shall verify the functionality of the Enhanced NOC/SOC with SBInet components and interfacing systems. The contractor shall support System Certification & Accreditation activities required to obtain an Authority to Operate.

(Reference Deliverables: NOC/SOC Test Plan/Procedure/ Descriptions, NOC/SOC Design Description, Version Description Document, NOC/SOC Test Report, NOC/SOC Security Architecture Design Document and Security Information (maintained in DHS RMS)),

5.2.1.1.6 NOC/SOC Production

The contractor shall support the deployment, operations, and maintenance of the NOC/SOC until operations are transitioned to the CBP Office of Information Technology and is limited to the initial period of performance. This effort shall include support for SBI*net* system deployment to Playas Test Facility. The software to be maintained by the NOC/SOC shall include, but not be limited to the following: Sensor Signal Conditioning Unit, Remote Terminal Unit, communications switching software (Iridium, (b) (7)(E) Microwave Backhaul), and power generation / management).

Contractor NOC/SOC support shall include:

a. Full time monitoring of the SBInet network and network assets.

b. Near-real-time response to network outages or system discrepancies discovered during monitoring

c. Maintenance of a call center at the NOC/SOC to receive security incident reports

d. Patch management and patch distribution

e. Maintenance of security audit trails

f. Proactive maintenance resulting from vulnerability reports received from CBP and DHS security

g. Recovery from system and infrastructure problems

(Reference Deliverables: NOC Plan, SOC Plan, NOC/SOC Standard Operating Procedures)

5.2.1.2 Support Environment Transition

At the Government's request, the contractor shall support the installation and transition of the Production Servers to Government support. This transition shall include all necessary software licenses, hardware purchased as part of this task order, and documentation for operations and sustainment of the support and development environments. At the completion of each build within a spiral (or release), the contractor shall provide all updates of the code to IV&V personnel for independent assessment and evaluation.

5.2.2 RAD/JAD Software and System Development Environment

The contractor shall establish a C3I development environment in concert with the Government. This environment shall be capable of supporting C3I requirements, architecture, data, communications, testing, implementation, and sustainment trade studies. Included will be sufficient software development tools for developing software and system interfaces, and the environment shall be capable of demonstrating the performance of alternative approaches (through the use of prototypes, demonstrations, and walk-throughs) to SBI*net* C3I functionality.

(Reference Deliverables: Spiral Build Plan, Software Development Plan, C2I Implementation Plan, Coding Standard Documentation, Software Quality Assurance Plan)

5.2.3 Service Oriented Architecture

The contractor's development environment and resulting solution shall support and be based on an open architecture "Service Oriented Architecture" (SOA) Technical Framework compatible with ongoing DHS and CBP SOA focus activities. This environment shall provide

the capability to include new functionality without major re-design, provides the ability to re-use/re-host service, mission, and database (including track data) applications. Applications to be hosted in this environment shall include both developed and off-the-shelf software. Furthermore, select major modules shall have the capability to be deployed as services on the CBP/DHS Enterprise Service Bus.

(Reference Deliverables: Enterprise Data Management Plan, Architecture Description Document)

5.2.4 Software Development Approach

5.2.4.1 Software Development Plan

The contractor shall produce, maintain, and follow a Software Development Plan (SDP) that reflects the RAD/JAD approach. This plan will schedule a succession of increasing functionality by build/spiral in alignment with SBI*net* system deployment and schedule. The contractor's approach to develop each spiral of the C3I system shall be presented for approval to the Government during the task order kick-off meeting.

(Reference Deliverables: Task Order Kick-off)

5.2.4.2 Initial Architecture

In alignment with the systems engineering activities conducted under the System Task Order (STO), the contractor shall develop architecture alternatives and recommend an initial C3I architecture to include functional applications and key interfaces. In support of the Initial Architecture the contractor shall conduct trade studies of alternative Command and Control solution components and develop a trade study report.

(Reference Deliverables: Task Order Kick-off, Trade Study Report)

5.2.4.3 Architecture Recommendations for Subsequent Releases

In alignment with the systems engineering activities conducted under the STO, the contractor shall develop an architecture transition approach for the C3I system. This approach shall address all known and anticipated interfaces and functionality required to achieve the overall SBI*net* mission "end state."

(Reference Deliverables: Task Order Kick-off)

5.2.5 C3I Infrastructure Requirements Development

The contractor shall develop requirements and recommendations for the supporting C3I infrastructure and computing capacity including storage) necessary for performing the C2I mission for each C2I node within the SBInet system architecture. At a minimum, the following requirements shall be documented within the appropriate B-Specs under the SBInet system specification tree. (Top level requirements)

5.2.5.1 C2I Facility Requirements

The contractor shall analyze the human factors workload, computer processing, and data storage requirements for generic C2I facilities (stations, sectors, A&M, OFO, ports of entry, headquarters, and mobile) and specify the following requirements as a minimum:

a. Heating, ventilating, and air conditioning (HVAC)

b. Workspace, including common areas and dedicated (secure) areas for intelligence operations

c. Physical and electronic security, including unique requirements for intelligence processing and planning

d. Computer processing requirements

e. Communications requirements

f. Data storage requirements, including unique requirements for intelligence data

g. Power, including backup

h. Facility space requirements for data and computer processing

i. redeployment of approximately 100 licenses for ObjectVideo, a video-based border surveillance system purchased by the government.

Facility requirements shall be scalable based on the mission, area of responsibility, and workload requirements for each class of C2I facility.

(Reference Deliverables: Infrastructure Plan—C2I Facilities, Disaster Recovery/Contingency Plan)

5.2.5.2 Intelligence

5.2.5.2.1 Intelligence Requirements

The contractor shall analyze intelligence system stakeholder needs and requirements and recommend intelligence system requirements consistent with SBI*net* A-Spec. Intelligence system requirements- in the form of a deliverable C3I Intelligence System/Segment Plan- will take into consideration adequate controls at the law enforcement sensitive level and above, existing infrastructure, classified and unclassified network services, current and planned facilities, analyst staffing, information sharing environments and information security directives.

Requirements shall be gathered from all participating enterprise organizations and stakeholders that will provide, request, and receive intelligence data and information. Formal maintenance of requirements will be in the SBInet DOORS database, from which review documents will be produced. Requirements shall address and align with current intelligence systems and data; including, but not limited to:

a. Existing targeting processes and tools to include CBP's Targeting Framework; link analysis tool Analyst Notebook; Automated Targeting System L, N and P

b. Web services and data model/schemas, to include integration with current capabilities such as the CBP SIGMA federated search capability

c. Intelligence system interfaces, in coordination with CBP users, to include USCG, ICE, CIS and external stakeholders (e.g., DOJ, DEA, and state and local law enforcement)

d. Support the flow of unclassified and classified data, to include email and intelligence products, through separate networks with different instances of the COP software separated by a one-way, high assurance guard (HAG)

e. The creation and sustainment of new CONOPs and Tactics, Techniques, and Procedures to conduct Intelligence Driven Operations at Station, Sector, Regional, and

National operations centers--this includes the development of mission processes, operational roles, and training to enhance CBP mission elements (e.g. Intelligence Analysis, Collection Management, and Operational Planning & Support)

f. The creation and sustainment of new CONOPs and Tactics, Techniques, and Procedures to implement an Unmanned Aerial Systems (UAS) management program that leverages SBInet capabilities-- this includes the development of mission processes, operational roles, and training to enhance CBP mission elements and investment options for Pilot programs

g. Law Enforcement Technical Collection (LETC) Integration-*in coordination with the SBInet engineering team, will create an integration design, documented in the Intelligence System Plan, that incorporates data outputs and collaboration tools into the overall C3I/CIP software and hardware solution. This includes incorporating the use of these capabilities within the overall intelligence CONOPS.* -

h. Current standards and practices for intelligence gathering within the CBP workforce to reduce transition costs and retraining to a minimum, while leveraging the tools and standards available through DHS. At a minimum the proposed system shall seamlessly integrate with (b) (7)(E) [redacted] (b) (7)(E) solutions to ensure cross-functional interoperability with operational assets.

Based on the intelligence requirements of the C3I system, the contractor shall prepare and evaluate alternative approaches for an integrated SBI*net* intelligence system to support the CBP and DHS mission.

(Reference Deliverables: Intelligence System Plan, C2I CONOPS, C2I Software Requirements Specification and Related DOORS database, Infrastructure Plan—C2I Facilities)

5.2.5.2.2 Intelligence System/Segment Planning

Based on the intelligence requirements of the C3I system, the contractor shall prepare and evaluate alternative approaches for an integrated SBI*net* intelligence system to support the CBP and DHS mission. At a minimum, the contractor shall conduct the following processes and activities as part of the intelligence system alternatives analysis:

a. All-Source Analysis (ASA). ASA capabilities shall include the fusion of intelligence data within an operational context, including the required system sources, and interfaces; and include a suite of production tools that are capable of accessing and incorporating data within the enterprise.

b. Intelligence Collection. An intelligence collection mechanism shall be incorporated in order to support the input of both manual and system generated data into the Intelligence System. The requirements gathering effort shall drive the definition of the reporting process (or processes) used by all parties involved in the proposed collection system, any data models or formats currently in use and the means by which intelligence information is currently entered into existing system(s).

c. Indications and Warning (I&W) Capabilities. The intelligence system shall incorporate I&W capabilities consistent with SBInet Concept of Operations (CONOPS), address the human factors capabilities of the intelligence system operators, and address necessary redundant communications in case of system outages.

d. Intelligence Dissemination. The intelligence production and dissemination service/system shall be capable of providing (at a minimum) operational assessments, targeting, spot reports, intelligence preparation of the border, and force protection.

e. The Intelligence System Plan (ISP). The contractor shall document the results of Intelligence System/Segment Planning activities in the ISP. The ISP shall provide sufficient detail to allow network stakeholders to determine that the design is consistent with the DHS Intelligence System Enterprise. This plan will include a description of the architectural framework, data access, applications, and presentation layers. The expectation is that this document will not exceed the Secret level in overall content in any section. The baseline ISP is expected at the completion of CLIN 3.

f. The Intelligence System Integrated Product Team (I-IPT). The contractor shall provide an IPT charter consistent with the program format. Membership will be specifically identified in the charter and at a minimum include: government staff- CBP-OIT, HSDN PMO, CBP-OIOC, DHS IA- and contractor staff- Intelligence Lead(s) and Systems Engineering. The baseline ISP is expected at the completion of CLIN 3.

(Reference Deliverables (Intelligence System Plan per MIL-STD 963B as tailored by the program)

5.2.5.2.3 Intelligence System/Segment Software Development Environment

Based on analyses and site surveys conducted during the development of the Intelligence System/Segment Plan, the Government selected the [redacted] as the locations for initial development and production of the C3I Intelligence System/Segment software and hardware. In coordination with the HSDN Program Office and its support contractor(s), the Contractor shall establish a capability within the HSDN Data Center to evaluate, integrate, and if necessary, develop intelligence collection and processing software. The Government will facilitate access to [redacted]

This hardware and software environment shall be capable of supporting intelligence system market research, trade studies, architecture analysis, data analysis, communications analysis, implementation, testing, and sustainment.

Included will be sufficient software tools for developing intelligence software and system interfaces, and the environment shall be capable of demonstrating the performance of alternative approaches (through the use of prototypes, demonstrations, and walk-throughs) to SBI*net* C3I intelligence functionality.

(Reference Deliverables Intel C&A Package)

5.2.5.2.4 Intelligence System/Segment Evaluation Prototype

The contractor shall conduct market surveys and obtain, integrate, design, develop, and deploy a working intelligence system prototype capable of stakeholder evaluation. The contractor shall support two stakeholder evaluations of candidate intelligence system software resulting from market surveys and stakeholder feedback. Candidate software shall be configured to support evaluations in the following venues:

a. Phase I: Northern Border Demonstration in concert with Space and Naval Warfare Systems Center (San Diego).

b. Phase II: Southwest Border Concept Demonstration.

(Reference Deliverables: Intelligence System Phase I Trade Study Report, Intelligence System Phase II Trade Study Report, Intelligence System Plan per MIL-STD 963B as tailored by the program)

5.2.5.3 Communications Systems Planning

The contractor shall analyze SBI*net* communications (voice and data) bandwidth and latency requirements against current and planned DHS/CBP enterprise capacity, communications infrastructure, and mission requirements and develop alternatives and recommended requirements for future upgrades to the system. These recommendations shall consider DHS and CBP mission needs; continuity of operations; and current and planned facilities (including associated training), agent and officer staffing, response and transport vehicles (air, water, and land), and surveillance technology deployment.

The contractor's system shall utilize DHS OneNet. When necessary for SBI*net* to meet its operational requirements and in cases where justified by reduced life-cycle costs, the contractor shall provide alternatives and recommend expansion of, or improvements to the existing communications and facility infrastructure.

The contractor shall develop a communications systems plan to ensure alignment between ongoing communications deployment activities internal and external to the SBI*net* system deployment. This plan shall include a methodology to track communications infrastructure deployment and provide a mechanism to monitor communications infrastructure status as part of the C3I system.

(Reference Deliverables: C3I Communications System Plan, Disaster Recovery/Contingency Plan)

5.2.5.4 Data Management

5.2.5.4.1 Data Management Planning and Alternatives

The contractor shall analyze SBI*net* C2I data storage requirements against current and planned DHS/CBP enterprise capacity, communications infrastructure, and mission requirements and develop alternatives and recommendations for future upgrades to the system. These alternatives shall consider mission needs, continuity of operations, current and planned facilities (including ILS and associated training), agent and officer staffing, response and transport vehicles (air, water, and land), and surveillance technology deployment.

The contractor's proposed data management system shall take maximum advantage of DHS/CBP current and planned infrastructure to include classified data storage facilities (i.e. HSDN, etc.). When necessary for SBI*net* to meet its operational requirements and in cases where justified by reduced life-cycle costs, the contractor shall provide alternatives and recommend improvements to data management facility infrastructure.

The contractor shall develop a data management systems plan to ensure alignment between ongoing CBP and DHS data management activities internal and external to the SBI*net* system deployment. This plan shall include a methodology to track data management infrastructure deployment and provide a mechanism to monitor infrastructure status as part of the C3I system.

(Reference Deliverables: Enterprise Data Management Plan)

5.2.5.4.2 Data Management Facility Requirements

The contractor shall analyze the human factors workload, computer processing, and data storage requirements for SBI*net* Data Management facilities (Data Centers). This analysis shall be in accordance with the CBP and DHS Enterprise Architecture and shall be conducted as a partnership with SBI*net* Information Technology (IT) support stakeholders within CBP and DHS and leverage current and planned capability and capacity to provide the best value to the Government. As a minimum, the contractor shall specify the following requirements:

a. Heating, ventilating, and air conditioning (HVAC)

b. Workspace, including common areas and dedicated (secure) areas for intelligence operations

c. Physical and electronic security, including unique requirements for intelligence processing and planning

d. Computer processing requirements

e. Communications requirements

f. Data storage requirements, including unique requirements for intelligence data (both unclassified and classified)

g. Power, including backup

h. Facility space requirements for data and computer processing

(Reference Deliverables: Infrastructure Plan—Data Centers, Disaster Recovery/Contingency Plan)

5.3 Phase 2: C2I Spiral Design

The contractor shall incorporate a spiral approach to design, develop, deploy, and support each release of the C2I system. This spiral approach shall result in up to five releases where each subsequent release includes the incremental addition of functionality and/or an evolutionary improvement in system capability.

5.3.1 Reserved

5.3.2 Reserved

5.3.3 Reserved

5.3.4 Reserved

5.3.5 Reserved

5.4 Management of Technical Reviews

As a minimum, the Contractor shall host the following reviews (Table 1) to support the C3I development effort:

Table 1. C3I Reviews

Review	Schedule*
C3I Kick off Meeting	(b) (4) [redacted]
Release 0.5 Requirements Review	
Architecture Framework Review	
Investment Review Board	
Release 0.5 Design/Development	
▪ Release 0.5 Design Review	
▪ Release 0.5 Test Readiness Review	
▪ Release 0.5 Production Readiness Review (SAT)	
Release 0.5 Service Pack	
▪ Service Pack One Requirements Review	
▪ Service Pack One Design Review	
▪ Service Pack One TRR	
▪ Service Pack Software Acceptance Test	
NOC/SOC Development and Implementation	
▪ NOC/SOC Requirements Review	
▪ NOC/SOC PDR/CDR	
▪ NOC/SOC TRR-1	
▪ NOC/SOC TRR-2	
▪ NOC/SOC Production System Enhanced Design Ready to Deploy	
INTEL	
▪ Phase I/II Kick Off	
▪ Phase I Evaluation "Selection"	
▪ Phase I Trade Study Results Review/Phase II Kick-Off	
▪ Phase II (Southwest Border) Concept Evaluation "Selection"	
▪ Phase II Trade Study Results Review	
* Calendar Days After Award	

In addition, Contractor shall perform a number of trade study reviews as mutually agreed upon with the Government. For each technical review, the Contractor shall be responsible for:

a. Ensuring all non-Government participants hold the proper clearance for the meeting and the meeting location provides the appropriate security measures for the information to be discussed

b. Providing computer, voice and video conference access with security measures appropriate for the information discussed during the meeting

c. Providing the Government with copies of presentation materials at least 5 working days prior to the review

d. Capturing meeting minutes and action items sufficient to document the Government's decision making process, and providing the minutes to the Government within 5 working days after the review.

The Contractor's key personnel shall be available for interim ad-hoc meetings and regularly scheduled meetings with Government representatives either by phone or at the Contractor's facility to resolve issues and action items and engage the Government in the development of the area-specific design and to assure proper project planning per DHS MD 5100.

(Reference Deliverables: Trade Study Report)

5.4.1 C3I Kick-Off Meeting

During the C3I Kick-Off Meeting, the contractor shall present a project schedule, project teams and key team members, and detailed plan for the development of the C3I system. In addition, the contractor shall present the trade-study plan and activities for Government review and approval.

(Reference Deliverables: Spiral Build Plan, Integrated Master Plan-Updates to Management TO, Integrated Master Schedule-Updates to Management TO)

5.4.2 Release 0.5 Requirements Review (R0.5 RR)

The detailed requirements for the Release 0.5 C2I ICA system shall be presented by the contractor during the Requirements Review. At the conclusion of the review, the Government may approve the requirements and authorize the contractor to proceed with the design effort. The information to be presented by the contractor during this review shall include, but not be limited to the following:

a. Functional and Technical Requirements Documents
b. Interface Control Document
c. Requirements Certification Form
d. Requirements Traceability Matrix (RTM)
e. Security Design Information
f. Interconnection Security Agreements, if applicable
g. Inputs for Architecture Alignment and Assessment (AAA) design criteria
h. Recommended updates to documentation provided in the STO as follows:
    - Project plan
    - QA Plan
    - Work Breakdown Structure
    - System security planning documentation
    - Privacy Impact Assessment (PIA)
    - Risk Management Database/Plan
    - Action Item Database

- Logistics supportability analysis
- Training Requirements and Plan
- Lessons Learned
- CM and Data Management Plan
- Project documents in CM library

(Reference Deliverables (Release 0.5 Specific): C2I Software Requirements Specification and Related DOORS database, C2I Interface Control Document(s), Interface Requirements Specification, Requirements Traceability Matrix, Architecture Description Document, Software Development Folder, Security Architecture Design Document, C2I Development Lessons-Learned, Software Test Plan)

5.4.3 Release 0.5 Design Review (R0.5 DR)

The detailed design for the Release 0.5 C2I ICA system shall be presented by the contractor during the Design Review. At the conclusion of the review, the Government may approve the detailed design and authorize the contractor to proceed with integration and testing. The information to be presented by the contractor during this review shall include, but not be limited to the following:

a. Functional and Technical Requirements Documents
b. Interface Control Document
c. Requirements Certification Form
d. Requirements Traceability Matrix (RTM)
e. Security Information (Maintained in DHS Risk Management System (RMS))
f. Interconnection Security Agreements, if applicable
g. System Test Plan
h. Implementation Plan
i. Deployment Plan
j. C3I System Design and Subsystem ID Assignments (Functional Analysis and Allocation)
k. Results of stakeholder Review(s)/ walkthroughs of System Design
l. Data Management Plan (including Data Model and DDL)
m. System Design Documents
n. Training documents
o. Inputs for Architecture Alignment and Assessment (AAA) design criteria
p. Recommended updates to documentation provided in the STO as follows:
    - Project plan
    - QA Plan

- Work Breakdown Structure
- System security planning documentation
- Privacy Impact Assessment (PIA)
- Risk Management Database/Plan
- Action Item Database
- Life-cycle costs analysis
- Logistics supportability analysis
- Training Requirements and Plan
- Lessons Learned
- CM and Data Management Plan
- Project documents in CM library

(Reference Deliverables (Release 0.5 Specific): C2I Software Requirements Specification and Related DOORS database, C2I Interface Control Document, Interface Requirements Specification, Requirements Traceability Matrix, Architecture Description Document, Software Development Folder, Security Architecture Design Document, C2I Development Lessons-Learned, Software Test Plan, Intermediate Test Requirements, Intermediate Test Cases, Intermediate Test Procedures, C2I Software Design Document, Software Design Description, Database Design Document, Interface Design Description, Spiral Software Deliverable Version Description Document, Intermediate Test Results, Process Audit Checklists/Records, Software Unit Test Requirements, Software Unit Test Procedures, Installation Plan, Software Unit Test Results, C2I Code Library, C2I Performance Metrics Report, User Manual, Operator Manual, Training Materials)

5.4.4 Release 0.5 Contractor Integration/Test Demonstration

The contractor shall demonstrate key user interfaces, operator CONOPs for use cases of interest, and other capabilities in development or under evaluation, as available. The Contractor shall plan at least one demonstration, and shall support additional informal demonstrations on a non-interference of schedule basis.

(Reference Deliverables: Presentation Materials)

5.4.5 Release 0.5 Test Readiness Review (R0.5 TRR)

The Contractor shall support Release 0.5 Test Readiness Review (TRR) prior to final acceptance testing.

(Reference Deliverables (Release 0.5 Specific): C2I Software Requirements Specification and Related DOORS database, C2I Interface Control Document, Interface Requirements Specification, Requirements Traceability Matrix, Architecture Description Document, Software Development Folder, Security Architecture Design Document, C2I Development Lessons-Learned, Software Test Plan, Intermediate Test Requirements, Intermediate Test Cases, Intermediate Test Procedures, C2I Software Design Document, Software Design Description, Database Design Document, Interface Design Description, Spiral Software Deliverable Version

Description Document, Intermediate Test Results, Process Audit Checklists/Records, Software Unit Test Requirements, Software Unit Test Procedures, Installation Plan, Software Unit Test Results, C2I Code Library, C2I Performance Metrics Report, User Manual, Operator Manual, Training Materials, Software Maintenance Procedures)

5.4.6 Release 0.5 Production Readiness Review (R0.5 PRR)

Following successful completion of the Release 0.5 Software Acceptance Test (SAT), the baselined software will be released to the Support Environment for system integration testing. In the Support Environment, the Contractor shall configure the base-lined Release 0.5 release and its associated databases and configuration parameters into the Production Configuration. The Contractor shall perform a Production Readiness Review (PRR) prior to deployment of the software.

(Reference Deliverables (Release 0.5 Specific): Release 0.5 Software Test Report, Software Support and Maintenance Plan, Software Maintenance Procedures, C2I System Performance Metrics Report, Software Metrics Report)

5.4.7 Architecture Framework Review (AFR)

The contractor shall present the Operational, System, and Technical Views of the C3I. This review shall address the expected use/mix of Commercial-off-the-Shelf (COTS), Government-off-the-Shelf (GOTS), and developmental hardware, software, and interfaces and the contractor's assumptions related to the Government's responsibilities in providing C3I and training facilities and capabilities.

(Reference Deliverables: Enterprise Data Management Plan, Architecture Description Document, Trade Study Report)

5.4.8 Reserved

5.4.9 Reserved

5.4.10 Reserved

5.4.11 Prototype Demonstration

The contractor shall develop prototype demonstrations at the RAD/JAD facility for each planned Spiral. The prototype shall demonstrate key user interfaces, operator CONOPs for use cases of interest, and other capabilities in development or under evaluation, as available. The Contractor shall plan at least two scheduled demonstrations per spiral, and shall support additional informal demonstrations on a non-interference of schedule basis.

(Reference Deliverables: Presentation Materials)

5.4.12 Reserved

5.4.13 Reserved

5.4.14 Release 0.5 Service Pack One Technical Reviews

5.4.14.1 Release 0.5 Service Pack One Requirements Review (SP1 RR)

As part of the SP1 implementation, the contractor shall conduct a requirements review for all features to be included in SP1. As a result of feedback received from the Government through the CCB, the contractor shall update all affected requirements documentation including, but

not limited to the DOORS database, Release 0.5 Software Requirements Specification, and Interface Control Documents/Specifications.

5.4.14.2 Release 0.5 Service Pack One Design Review

The contractor shall conduct a design review for all features included in SP1. As a result of feedback received from the Government through the CCB, the contractor shall update all affected requirements and design documentation.

5.4.14.3 Release 0.5 Service Pack One Test Readiness Review (SP1 TRR)

The Contractor shall support Release 0.5 Service Pack One Test Readiness Review (SP1 TRR) prior to final software acceptance testing. The Software Test Plan developed for Release 0.5 shall be updated to identify existing tests that will be repeated (regression tests) and new tests for new or updated Service Pack One features. The scope of testing shall be presented at the TRR and will be reviewed by the Government for adequacy.

5.4.14.4 Release 0.5 Service Pack One Software Acceptance Test (SP1 SAT)

Upon successful completion of the TRR, the contractor shall perform SP1 testing and document the results in an update to the Release 0.5 Test Report. Following SAT, the baselined software will be released to the Support Environment for SBInet system integration testing.

5.4.15 NOC/SOC Technical Reviews

5.4.15.1 NOC/SOC Requirements Review

The detailed requirements for the NOC/SOC shall be presented by the contractor during the NOC/SOC Requirements Review. At the conclusion of the review, the Government may approve the requirements and authorize the contractor to proceed with the NOC/SOC design effort. The information to be presented by the contractor during this review shall include, but not be limited to the following:

a. Network Operations Center Plan

b. Security Operations Center Plan

c. NOC/SOC System Requirements Specification maintained in DOORS database

d. Requirements Traceability Matrix (RTM) (included in NOC/SOC specification)

e. System Test Plan (Updates to the STO Test Plan)

f. Interface Control Document(s)

g. Security Design Information (Provided under Systems Task Order)

h. Interconnection Security Agreements, if applicable

(Reference Deliverables: NOC Plan, SOC Plan, NOC/SOC Requirements Specification and Related DOORS database, Requirements Traceability Matrix,)

5.4.15.2 NOC/SOC PDR/CDR

The detailed design for the NOC/SOC shall be presented by the contractor during the Critical Design Review. At the conclusion of the review, the Government may approve the detailed design and authorize the contractor to proceed with COTS procurement, integration and

testing. The information to be presented by the contractor during this review shall include, but not be limited to the following:

a. NOC/SOC Security Architecture Design Document (F078)

b. NOC/SOC Requirements Specification (F079)

(Reference Deliverables: Updates, if any, to previously delivered documents., NOC/SOC Database Design Document (presentation form only), NOC/SOC Security Architecture Design Document, NOC/SOC Test Plan/Procedure/ Descriptions)

5.4.15.3 NOC/SOC TRR Phase 1/Confidence Test

The Contractor shall support the NOC/SOC Test Readiness Review (TRR) Phase 1 and Component Qualification Confidence Test prior to final system acceptance testing. The information to be presented by the contractor during this review shall include, but not be limited to the following:

Entry
- Clearly stated test objectives
- Published requirements
- Defined, Documented and Configuration-controlled test environment
- Description of test protocols, roles and responsibilites of participants (including government witness)
- Test plan and procedures
- Test schedule

Exit
- All above determined adequate to proceed
- Action item list from readiness review and closure plan

Government approval

5.4.15.4 NOC/SOC TRR

The Contractor shall support the NOC/SOC Test Readiness Review (TRR) Phase 2 prior to component qualification testing (CQT). The information to be presented by the contractor during this review shall include, but not be limited to the following:

a. Network Operations Center Plan (F010)

b. Security Operations Center Plan (F011)

c. NOC/SOC Interface Control Document (F055)

d. Enterprise Data Management Plan Version 1 (F064) [Should just be updates to the one presented at the R0.5 DR]

e. NOC/SOC Database Design Document (F085)

f. NOC/SOC Test Plan/Procedure/Descriptions (F086)

(Reference Deliverables: NOC Plan, SOC Plan, NOC/SOC Interface Control Document, Enterprise Data Management Plan, NOC/SOC Requirements Specification, NOC/SOC Database Design Document, NOC/SOC Test Plan/Procedure/ Descriptions)

5.4.15.5 NOC/SOC P/ORR

The contractor shall support testing activities in accordance with the approved NOC/SOC System Acceptance Test Plan. Following successful acceptance testing, the NOC/SOC initial operating capability will be released for SBI*net* use.

(Reference Deliverables: NOC/SOC Test Report)

5.4.16 Intelligence System/Segment Technical Reviews

5.4.16.1 Phase I/Phase II Kick-Off Meeting

During the Intelligence System/Segment Kick-Off Meeting, the contractor shall present a project schedule, project teams and key team members, and detailed plan for the development of the Intelligence System/Segment. This kick off meeting shall address the activities to be accomplished during the Northern Border Demonstration (Phase I) and the Southwest Border Concept Evaluation (Phase II). In addition, the contractor shall present the trade-study approach and activities for Government review and approval.

(Reference Deliverables: Integrated Master Plan-Updates under the STO, Integrated Master Schedule-Updates under the STO, Presentation Materials)

5.4.16.2 Phase I Evaluation "Selection"

The Contractor shall provide the criteria to be used to evaluate the tools within the trade study as well as a description of those tools considered by the contractor for evaluation. The Contractor shall present and recommend the Phase I candidate intelligence collection, processing, and dissemination software to be used for the Northern Border Prototype. The Contractor shall capture and incorporate feedback from stakeholders on the capabilities and features to be included in support of the Northern Border Intelligence System/Segment Evaluation. The Contractor shall update the Intelligence System/Segment Phase I Trade Study Report based on the agreed-to approach.

(Reference Deliverables: Intelligence System/Segment Phase I Trade Study Report (Draft), Presentation Materials)

5.4.16.3 Phase I Trade Study Results Review/Phase II Kick-Off Meeting

The Contractor shall analyze, capture, and report the results of the Phase I Evaluation and present these results at the Phase I Trade Study Results Review. These results shall include the analysis of capabilities for common intelligence picture visualization tools, reporting tools and intelligence portal which incorporates the data derived from the Northern Border Prototype.

In addition to the presentation of the results for Phase I, the Contractor shall present an updated project schedule, project teams and key team members, and detailed plan for the Phase II Southwest Border Concept Evaluation. The contractor shall present the Phase II trade-study approach and activities for Government review and approval.

(Reference Deliverables: Intelligence System/Segment Phase I Trade Study Report (Final), Presentation Materials)

5.4.16.4 Phase II (Southwest Border) Concept Evaluation "Selection"

The Contractor shall provide the criteria to be used to evaluate the tools within the trade study as well as a description of those tools considered by the contractor for evaluation. The Contractor shall present and recommend the Phase I candidate intelligence collection, processing, and dissemination software to be used in for the Southwest Border Prototype. The Contractor shall capture and incorporate feedback from stakeholders on the capabilities and features to be included in support of the Southwest Border Intelligence System/Segment Evaluation. The Contractor shall update the Intelligence System/Segment Phase II Trade Study Report based on the agreed-to approach.

(Reference Deliverables: Intelligence System/Segment Phase II Trade Study Report (Draft), Presentation Materials)

5.4.16.5 Phase II Trade Study Results Review

The Contractor shall analyze, capture, and report the results of the Phase II Evaluation and present these results at the Phase II Trade Study Results Review. These results shall include the analysis of capabilities for common intelligence picture visualization tools, reporting tools and intelligence portal which incorporates the data derived from the Southwest Border Prototype.

(Reference Deliverables: Intelligence System/Segment Phase II Trade Study Report (Final), Presentation Materials)

5.5 Stakeholder Briefings

The Contractor shall develop and present top-level briefings to Government stakeholders on the results of the Architecture Framework Review, Use-Case Review, and Spiral Design Review.

(Reference Deliverables: Presentation Materials)

5.6 Task Order Management

The contractor shall submit an initial Integrated Master Plan (IMP), CDRL —), without narratives, as well as a resource loaded Integrated Master Schedule (IMS), CDRL —, that follows guidance contained in the DoD IMP and IMS Preparation and Use Guide dated October 2005. The initial IMP and IMS shall be developed and submitted with the firm proposal for this task order, or with prior advance authorization commitment, and shall be revised to incorporate acceptable review comments received not later than 15 days following the submittal. The IMS shall be compliant with Data Item Description DI-MGMT-81650. The Contractor shall submit initial control account budgets with the IMP and IMS submittal. Following contract negotiations, the contractor shall revise its IMP, IMS, and control account budgets based on changes agreed to during negotiations. This and related baseline material shall be re-submitted to the PMO ten calendar days prior to the joint Integrated Baseline Review (IBR), which shall be hosted by the contractor not later than 60 calendar days after completion of contract negotiations. Upon successful completion of the IBR, this material shall represent the Contractor's plan and baseline for implementation and management of this Task Order.

The Contractor shall submit monthly Contract Performance Reports (CPRs), Formats 1 Thru 5, (CDRL F052) in accordance with Data Item Description DI-MGMT-81466A dated March 2005. The first month's CPR period end date shall reflect the close of the Contractor's first accounting cycle following Task Order award. CPRs shall reflect the cost and schedule

performance for the Task Order and shall contain Variance Analysis Reports (VARs) for those control accounts that break the SBI*net* cost and schedule variance thresholds, including narrative explanation of the cause and the corrective action plan ("get-well plan"). The Contractor shall present this information to the Government on a monthly basis following the submittal of the monthly CPR and at least 3 business days in advance of the monthly Program Management Review.

(Reference Deliverables: Integrated Master Plan—Updates to Management TO, Integrated Master Schedule—Updates to Management TO, Contract Performance Report)

5.6.1 Project Management

The Contractor shall provide on-site coordination and administrative support to execute this task order.

Weekly Project management meetings shall be held as required at a location mutually agreed upon between the Contractor and the Contracting Officer (CO) or his representative.

For meetings and reviews the contractor shall take notes, record and track action items and issues.

At the close of the meeting or review, the contractor and the senior Government representative present shall agree upon action items and issues. The contractor shall provide either electronic copies or online access within a common Government/Contractor database within 96 hours of the meeting. All action items are to be approved by the Contractor's Project Manager and the

Government's Contracting Officer's Technical Representative or his designee.

The contractor shall ensure that COP C3I performance is rolled-up into the monthly program management reviews for the overall SBInet deployment.

The contractor shall provide a COP C3I System Deployment Plan.

5.6.2 Business Management

The contractor shall perform the following Business Management activities in support and performance of COP C3I.

The Contractor COP C3I Business Management representative shall coordinate and report COP C3I information, including C3I Earned Value Management, utilizing the same electronic reporting system and business team meetings as used and approved under the SBI*net* STO. The results of these meetings shall be reviewed by the SBInet System Program Office (SPO) and the contractor, and reported as part of the contract-level Monthly Program Reviews. The contractor shall designate a Contracts Administrator as the single point of contact for contractual matters. The Contract administrator shall have the responsibility and authority to represent and commit the contractor's organization on contract-related program issues. Business Management will report task order information utilizing reports from Boeing IDS Cost-Schedule Reporting Tool (CSPR).

Contracts administrator manager shall perform general contract administration support during the period of performance of the program. The administrator shall serve as the customer focal point for contractual matters. The administrator shall support program reviews. The administrator shall issue and track correspondence items (incoming and outgoing) and submit any additional proposals and/or Engineering Change Proposals. The administrator shall

perform obligation analysis to assess the impact of change activity with regard to scope, change board activities, funding requirements, and export compliance activities.

5.6.3 Supplier Management and Procurement

The contractor shall provide direction for suppliers working on-site. The contractor shall monitor, control, and report the plans, schedules, budgets, and variances associated with suppliers working on BMGR P37BC in support of contract-level performance reviews. The contractor shall report on supplier performance and achievements against the relevant BMGR P37BC schedule and cost metrics.

5.6.4 Risk Management

The Contractor shall implement proactive risk management in accordance with an approved update to the contract-level Risk Management Plan (RMP), tailored to the SBI*net* program objectives. The Contractor shall ensure that project risks are actively managed and coordinated with the SBI*net* SPO risk manager, and also reviewed at the contract-level Risk Management Board for overall SBI*net* impacts and lessons learned. The Contractor shall link risks into the contract level risk database to provide CBP with both a standalone C3I risk assessment as well as an overall SBI*net* risk assessment. The Contractor shall provide an overview of the management of C3I risks, issues, and mitigation plans, status of mitigation efforts, and results of mitigation at each Monthly Program Review and the monthly Risk Management Board meetings and include them as part of the monthly Program Report.

5.6.5 System Engineering

The Contractor shall provide the resources and skills necessary to assure that the implementation, inspection, and acceptance of deliverables are in accordance with the detailed design and acceptance plan.

The contractor shall maintain configuration identification, configuration/change control, configuration status accounting, and configuration audits of deliverables for the COP C3I in accordance with the SBInet SPO Configuration and Data Management Plan, and enter this data into its SBInet database.

The contractor shall provide Software Design documentation package; as required.

6 Schedule and Deliverables

6.1 Period of Performance

The period of performance for this task order is from the date of award for a base period of fourteen months, with two one-year options periods.

6.2 Description of Deliverables

6.2.1 RAD/JAD Facility

This deliverable shall provide the facility requirements and approach for to establish and operate the software development environment during SBI*net* development. Sustainment requirement

6.2.2 Intelligence System/Segment Plan

This deliverable shall document the requirements and plan resulting from the effort conducted under paragraph 5.2.5.2.2

6.2.3 C3I Communications System Plan

This deliverable shall document the requirements and plan resulting from the effort conducted under paragraph 5.2.5.3.

6.2.4 C2I Total Lifecycle Cost Analysis / Model

This deliverable shall provide a model (within a tool such as Microsoft™ Excel™) and the supporting documentation as necessary to provide the Government a basis of estimate to support costs associated with developing, deploying, maintaining, and retiring the C2I system delivered as a result of this task order.

6.2.5 Software Support & Maintenance Plan

This deliverable shall document the plan for releasing, deploying, installing, maintaining, upgrading, and transitioning the software delivered as a result of this task order.

6.2.6 Trade Study Report

This deliverable shall document the results of any trade studies conducted by the contractor in support of developing and delivering the system.

6.2.7 C2I Interface Control Document

This deliverable shall document the responsible parties, associated specifications, and processes for developing and maintaining each external interface to the system.

6.2.8 Software Maintenance Procedures

At minimum, this deliverable shall document the processes and procedures for maintaining software releases, including the steps necessary for repairing/patching software, regression testing, associated configuration control (check-in, check-out) procedures, deployment, installation, and checkout.

6.2.9 Training Materials

This deliverable shall provide the training materials necessary for system administrators (data centers, command centers) to support the actions necessary for installing releases, patches; and troubleshooting the system.

6.2.10 C2I Code Library (Including License Documentation)

This deliverable shall provide the code library and associated hosting/configuration management environment resulting from the effort under this task order. This library shall also include license/warrantee documentation associated with software and hardware purchased (COTS) under this task order.

6.2.11 C2I System Performance Metrics Report

At minimum, this deliverable shall include periodic reports on the performance of software development, operational status, repairs/patches, and storage capacity used/available.

6.2.12 C2I Software Requirements Specifications and DOORS

This deliverable shall consist of the DOORS requirement management system database. The contractor shall maintain the C3I COP DOORS database under configuration control as the authoritative requirements repository and deliver SRS documentation from DOORS at the life cycle design reviews.

6.2.13 NOC/SOC Standard Operating Procedure

The NOC/SOC Standard Operating Procedure will describe the operating practices, processes and procedures for the SBInet NOC/SOC in accordance with DHS & CBP Enterprise Architecture, Network Operations and Security policy.

The procedure will provide detail on NOC responsibilities and actions (i.e. network monitoring, maintenance, software/firmware distribution, management of servers and network devices, etc).

The procedure will also describe the responsibilities and actions of the SOC (i.e. security monitoring, intrusion detection, anti-virus protection, user account management and access control, event reporting and escalation in accordance with the DHS SOC CONOPS, security log analysis, etc).

6.2.14 Service Pack One Implementation Plan

The Service Pack One Implementation Plan will describe all expected document changes, design changes, reviews required (including expected Government review comment timeline), review and delivery schedule, and project baseline (work package) changes required to successfully implement Service Pack One.

6.2.15 Contract Data Requirements List (CDRL)

The contractor shall deliver CDRL items in accordance with the instructions listed in Table 2 below:

Table 2. Contract Data Requirements List

COP Release 0.5, Intel, and Facilities Deliverables										
CDRL#	Title	Freq.	Initial	Update(s)	Final	Approval Required	Preparation / Delivery Instructions	DID/ SOW	SLC	Boeing
F004	Software Quality Assurance Plan	1-Time	At Kick Off Meeting	N/A	N/A	Yes	Contractor format acceptable following content outline in BPI-3319. Delivery will be electronically.			BPI-3319
F014	C2I Training Plan	Initial+1	15 DPT R0.5 DR	N/A	15 DPT R0.5 TRR	Yes	Contractor format acceptable following content outline in SLC. Delivery will be electronically.		X	
F028	C2I CONOPS	1-Time	15 DPT AFR	N/A	N/A	Yes	Contractor format acceptable. Delivery will be electronically.			Contractor Defined
F052	Contract Performance Report (Formats 1 thru 5)	MTHLY	N/A	N/A	15th of each month	No	Delivery will be electronically.	DI-MGMT-81466A		
F055	Release 0.5 C2I Interface Control Document	1-Time	At R0.5 PRR	N/A	N/A	No	Contractor format acceptable. Delivery will be electronically.	6.2.7		
F061	Release 0.5 Spiral Build Plan	1-Time	At Kick Off Meeting	N/A	N/A	No	Contractor format acceptable. Delivery will be electronically.			Contractor Defined
F062	Software Development Plan (SDP)	1-Time	At Kick Off Meeting	N/A	N/A	Yes	Contractor format acceptable following content outline in ART-423. Delivery will be electronically.	DI-IPSC-81427		ART-423
F065	Intelligence System/Segment Plan Version 1	Initial+1	15 DPT R0.5 DR	N/A	15 DPT R0.5 PRR	Yes	Contractor format acceptable. Delivery will be electronically.	6.2.2		
F066	C3I Communications System Plan Version 1	Initial+1	15 DPT R0.5 DR	N/A	15 DPT R0.5 PRR	No	Contractor format acceptable. Delivery will be electronically.	6.2.3		
F067	Release 0.5 Architecture Description Document (ADD)	1-Time	At R0.5 RR	N/A	N/A	Yes	Contractor format acceptable following content outline in SEMP 3.3.2.	Briefing		

COP Release 0.5, Intel, and Facilities Deliverables										
CDRL#	Title	Freq.	Initial	Update(s)	Final	Approval Required	Preparation / Delivery Instructions	DID/ SOW	SLC	Boeing
F067	Release 1.0 Architecture Description Document (ADD)	1-Time	15 DPT AFR	N/A	N/A	Yes	Contractor format acceptable following content outline in SEMP 3.3.2. Delivery will be electronically.			SEMP 3.3.2
F069	C2I Total Lifecycle Cost Analysis / Model	Initial+1	At R0.5 RR	N/A	At AFR	Yes	Contractor format acceptable following content outline in SLC. Delivery will be electronically.		X	
F070	Software Support & Maintenance Plan	1-Time	15 DPT R 0.5 P/ORR	N/A	N/A	Yes	Contractor format acceptable. Delivery will be electronically.	6.2.5		
F073	Release 0.5 Infrastructure Plan—C2I Facilities	Initial+1	At R0.5 RR	N/A	At R0.5 DR	No	Contractor format acceptable. Delivery will be electronically.		X	
F074	Infrastructure Plan—Data Centers	Initial+1	15 DPT R0.5 DR	N/A	15 DPT R0.5 TRR	Yes	Contractor format acceptable following content outline in SLC. Delivery will be electronically.		X	
F075	Trade Study Report	AS REQ	AS REQ	AS REQ	AS REQ	Yes	Contractor format acceptable. Delivery will be electronically.	6.2.6		
F075	Intelligence System/Segment Phase I Trade Study Report	Initial +1	10 DPT Phase I Selection	N/A	10 DPT Phase I Results Review	No	Contractor format acceptable, delivery will be electronically	6.2.6		
F075	Intelligence System/Segment Phase II Trade Study Report	Initial +1	10 DPT Phase II Selection	N/A	10 DPT Phase II Results Review	No	Contractor format acceptable, delivery will be electronically	6.2.6		
F076	Presentation Materials	ASREQ	5 DPT Review	N/A	At Review	No	Contractor format acceptable. Delivery will be electronically.			Contractor Defined
F077	Release 0.5 Software Metrics Report	Initial+1	At R0.5 TRR	N/A	At R0.5 PRR	No	Contractor format acceptable following content outline in BPI-3322. Delivery will be electronically.			BPI-3322
F078	Release 0.5 Security Architecture Design Document	Initial+1	15 DPT R0.5 DR	N/A	60 DPT R0.5 PRR	Yes	According to SLC DID		X	

Attachment 1

COP Release 0.5, Intel, and Facilities Deliverables										
CDRL#	Title	Freq.	Initial	Update(s)	Final	Approval Required	Preparation / Delivery Instructions	DID/ SOW	SLC	Boeing
F079	Release 0.5 C2I Software Requirements Specification (DOORS Database)	Initial+2	At R0.5 RR	At R0.5 DR	At R0.5 TRR	Yes	Contractor format acceptable following content outline in ART-402. Delivery will be electronically.			ART-402
F081	Release 0.5 Interface Requirements Spec	Initial+1	At R0.5 RR	N/A	At R0.5 TRR	No	Contractor format acceptable following content outline in ART-403. Delivery will be electronically.			ART-403
F082	Release 0.5 Interface Design Descriptions	Initial +1	At R0.5 DR	N/A	At R0.5 TRR	No	Contractor format acceptable following content outline in ART-411. Delivery will be electronically.			ART-411
F083	Release 0.5 Spiral Software Deliverable / Version Description Document	Initial +1	15 DPT R0.5 DR	N/A	15 DPT R0.5 TRR	No	Contractor format acceptable following content outline in ART-414. Delivery will be electronically.			ART-414
F084	Release 0.5 Software Design Description	1-Time	At R0.5 DR	N/A	N/A	No	PowerPoint briefing	Briefing		
F085	Release 0.5 Database Design Document	Initial +2	15 DPT R0.5 SDR	N/A	15 DPT R0.5 TRR	No	Contractor format acceptable following content outline in ART-435. Delivery will be electronically.	ERWIN diagram		
F086	Release 0.5 Software Test Plan/Procedure/ Descriptions	Initial+1	15 DPT R0.5 DR	N/A	15 DPT R0.5 TRR	Yes	Contractor format acceptable following content outline in ART-404. Delivery will be electronically.			ART-404
F092	Release 0.5 Software Test Report	1-Time per test activity	30 DA R0.5 Test Event(s)	N/A	N/A	No	Contractor format acceptable following content outline in ART-425. Delivery will be electronically.			ART-425
F093	Release 0.5 Process audit checklists/ records	Initial+1	15 DPT R0.5 DR	N/A	15 DPT R0.5 TRR	No	Contractor format acceptable following content outline in BPI-3319. Delivery will be electronically.			BPI-3319
F095	Release 0.5 Requirements Traceability Matrix	Initial+2	At R0.5 RR	At R0.5 SDR	At R0.5 TRR	No	Contractor format acceptable following content outline in SLC. Delivery will be electronically.		X	

COP Release 0.5, Intel, and Facilities Deliverables										
CDRL#	Title	Freq.	Initial	Update(s)	Final	Approval Required	Preparation / Delivery Instructions	DID/ SOW	SLC	Boeing
F096	Software Development Folder	ASREQ	Establish 30 DA R0.5 RR	ASREQ	N/A	No	Contractor format acceptable following content outline in ART-424. Delivery will be electronically.			ART-424
F101	Release 0.5 System Administrator Training Materials	Initial+1	30 DA R0.5 DR	N/A	15 DPT R0.5 TRR	Yes	Contractor format acceptable. Delivery will be electronically.	6.2.9		
F102	Release 0.5 C2I Code Library (Including License Documentation)	Initial+1	At R0.5 DR	N/A	At R0.5 TRR	No	Contractor format acceptable. Delivery will be electronically.	6.2.10		
F103	C2I Development Lessons-Learned	ASREQ	30 DA R0.5 RR	ASREQ	N/A	No	Contractor format acceptable. Delivery will be electronically.			Contractor Defined
F104	C2I System Performance Metrics Report	Initial+1	30 DA R0.5 DR	N/A	At AFR	No	Contractor format acceptable. Delivery will be electronically.	6.2.11		
F105	Release 0.5 System Administrator User Manual	Initial+1	15 DPT R0.5 DR	N/A	15 DPT R0.5 TRR	No	Contractor format acceptable following content outline in ART-408. Delivery will be electronically.			ART-408
F107	Release 0.5 Installation Plan	Initial+1	15 DPT R0.5 DR	N/A	15 DPT R0.5 TRR	Yes	Contractor format acceptable following content outline in ART-409. Delivery will be electronically.			ART-409
F108	Action Items	ASREQ	ASREQ	ASREQ	N/A	Yes	Contractor format acceptable using the Management Emphasis System (MET). Delivery will be electronically.			Contractor Defined
F109	Meeting Notes	ASREQ	ASREQ	ASREQ	N/A	No	Contractor format acceptable. Delivery will be electronically.			Contractor Defined

NOC/SOC Deliverables

CDRL#	Title	Freq.	Initial	Update(s)	Final	Approval Required	Preparation / Delivery Instructions	DID/ SOW	SLC	Boeing
F010	Network Operations Center Plan	Initial+2	At NOC/SOC RR	At NOC/SOC TRR-1	At NOC/SOC TRR-2	Yes	Contractor format acceptable. Delivery will be electronically.			5.2.5.4.3
F011	Security Operations Center Plan	Initial+2	At NOC/SOC RR	At NOC/SOC TRR-1	At NOC/SOC TRR-2	Yes	Contractor format acceptable. Delivery will be electronically.			5.2.5.4.4
F055	NOC/SOC Interface Control Document	Initial+1	At NOC/SOC PDR/CDR	N/A	At NOC/SOC TRR-2	No	Contractor format acceptable. Delivery will be electronically	6.2.7		
F064	Enterprise Data Management Plan Version 1	Initial+2	15 DPT R0.5 DR	N/A	At NOC/SOC TRR-2	No	Contractor format acceptable following content outline in SLC. Delivery will be electronically.		X	
F076	Presentation Materials	AS REQ	5 DPT Review	N/A	At Review	No	Contractor format acceptable. Delivery will be electronically.			Contractor Defined
F078	NOC/SOC Security Architecture Design Document	Initial+1	At NOC/SOC TRR-1	N/A	At NOC/SOC TRR-2	Yes				
F079	NOC/SOC Requirements Specification	Initial+2	5 DPT NOC/SOC RR	At NOC/SOC CDR	5 DPT NOC/SOC TRR-2	Yes	Contractor format acceptable following content outline in ART-402. Delivery will be electronically.			ART-402
F084	NOC/SOC System Design Document	Initial+1	TBD	N/A	TBD	Yes	(Deferred to Release 1) Contractor format acceptable following content outline in ART-406. Delivery will be electronically.			ART-406
F085	NOC/SOC Database Design Document	Final	N/A	N/A	10 DPT NOC/SOC TRR-2	No	Contractor format acceptable following content outline in ART-435. Delivery will be electronically.			ART-435
F086	NOC/SOC Phase 1 Test Plan/Procedure/ Descriptions	Final	N/A	N/A	At NOC/SOC TRR-1	Yes	Contractor format acceptable following content outline in ART-404. Delivery will be electronically.			ART-404
F086	NOC/SOC Phase 2 Test Plan/Procedure/ Descriptions	Final	N/A	N/A	10 DPT NOC/SOC TRR-2	Yes	Contractor format acceptable following content outline in ART-404. Delivery will be electronically.			ART-404

Attachment 1

NOC/SOC Deliverables										
CDRL#	Title	Freq.	Initial	Update(s)	Final	Approval Required	Preparation / Delivery Instructions	DID/ SOW	SLC	Boeing
F092	NOC/SOC Phase 1 Test Report	1-Time per test activity	N/A	N/A	30 DA NOC/SOC TRR-1	No	Contractor format acceptable following content outline in ART-425. Delivery will be electronically.			ART-425
F092	NOC/SOC Phase 2 Test Report	1-Time per test activity	N/A	N/A	31 DA NOC/SOC TRR-2	No	Contractor format acceptable following content outline in ART-425. Delivery will be electronically.			ART-425
F108	Action Items	AS REQ	AS REQ	AS REQ	N/A	Yes	Contractor format acceptable using the Management Emphasis System (MET). Delivery will be electronically.			Contractor Defined
F109	Meeting Notes	AS REQ	AS REQ	AS REQ	N/A	No	Contractor format acceptable. Delivery will be electronically.			Contractor Defined
F111	NOC/SOC Standard Operating Procedure	Initial+1	30 DA NOC/SOC TRR-1	N/A	15 DA NOC/SOC TRR-2	Yes	Contractor format acceptable. Delivery will be electronically.	6.2.13		

Acronym	Description
AFR	Architecture Framework Review
ASREQ	As Required
DA	Days After (Calendar Days)
DARP	Days After Report Period (Calendar Days)
DATO	Days After Task Order (Calendar Days)
DPT	Days Prior To (Calendar Days)
DR	Design Review
NOC/SOC	Network/System Operations Center
PRR	Production Readiness Review
R0.5	Release 0.5
RR	Requirements Review

SAT	System Acceptance Test
SDR	Spiral Design Review
SSDR	Sub-System Design Review
TRR	Test Readiness Review
UAT	Unit Acceptance Test
UCR	Use Case Review

7 Travel

Long distance travel is required for the performance of this Task Order (TBS). All travel shall be conducted in accordance with the IDIQ Contract HSBP1006D01353.

Attachment 1

SBI*net* Indefinite Delivery Indefinite Quantity (IDIQ) Reference

The following table provides a reference between the detailed tasks listed in the SOW and the SBI*net* IDIQ SOW requirements provided under Contract No. HSBP1006D01353.

*** Section references include sub-sections described in the associated document**

C3I SOW Reference		**IDIQ SOW Reference**	
Section	Title	Section	Title
5.1	Phase 0: C2I Interim Capability	6.3.3.1	Common Operating Picture
5.1.1	Operational Archetype	6.2	Technology Development Task Area
5.1.1.1	C2I Release 0.5 Requirements	6.5.5	Requirements Management
5.1.1.2	C2I Release 0.5 Design	6.5.7	Product Design
5.1.1.3	C2I Release 0.5 Development	6.3.3.1.1	C2 Software
5.1.2	C2I Release 0.5 O&M Support	6.10.1	Operations Support
5.1.2.1	Project 28 Retrofit	6.8.3	Software Maintenance
5.1.2.2	ICA Deployment, Operations, and Maintenance	6.9	Deployment and Installation Task Area
5.2	Phase 1: C3I Architecture Requirements; Development and Support Framework	6.5.2	Architecture
5.2.1	Initial Support Environment	6.10.1	Operations Support
5.2.1.1	Initial Support Environment Development	6.10	Operations Support Task Area
5.2.1.2	Support Environment Transition	6.3.3.5	Information Technology (IT) Infrastructure
5.2.2	RAD/JAD Software and System Development Environment	6.2	Technology Development Task Area
5.2.3	Service Oriented Architecture	6.5.2	Architecture
5.2.4	Software Development Approach	6.3.3.1.1	C2 Software
5.2.4.1	Software Development Plan	6.3.3.1.1	C2 Software
5.2.4.2	Initial Architecture	6.5.2	Architecture
5.2.4.3	Architecture Recommendations for Subsequent Releases	6.5.7	Product Design
5.2.5	C3I Infrastructure Requirements Development	6.3.3.5	Information Technology (IT) Infrastructure
5.2.5.1	C2I Facility Requirements	6.4	Facilities and Infrastructure Task Area
5.2.5.2	Intelligence	6.3.3.3	Intelligence Systems and Applications

Attachment 1

C3I SOW Reference		IDIQ SOW Reference	
Section	Title	Section	Title
5.2.5.3	Communications Systems Planning	6.3.3.4	Wireless Communications
5.2.5.4	Data Management	6.5.4	Configuration and Data Management
5.3	Phase 2: C2I Spiral Design	6.5.7	Product Design
5.3.1	Release 1	6.5.2	Architecture
5.3.2	Release 2	6.5.2	Architecture
5.3.3	Release 3	6.5.2	Architecture
5.3.4	Release 4	6.5.2	Architecture
5.3.5	Release 5	6.5.2	Architecture
5.4	Management of Technical Reviews	6.11.2.1	Project Manager
5.4.1	C3I Kick-Off Meeting	6.11.1.2	Program Coordination and Administrative Support
5.4.2	Release 0.5 Requirements Review (R0.5 RR)	6.5.1	Engineering Management
5.4.3	Release 0.5 Design Review (R0.5 DR)	6.5.1	Engineering Management
5.4.4	Release 0.5 Contractor Integration/Test Demonstration	6.6	Test and Evaluation Task Area
5.4.5	Release 0.5 Test Readiness Review (R0.5 TRR)	6.6	Test and Evaluation Task Area
5.4.6	Release 0.5 Production/Operational Readiness Review (R0.5 PRR)	6.9	Deployment and Installation
5.4.7	Architecture Framework Review (AFR)	6.5.2	Architecture
5.4.11	Prototype Demonstration	6.1.1.2	Concept of Operations
5.5	Stakeholder Briefings		
5.6	Task Order Management	6.11.3.2	Contracts Management
5.6.1	Project management	6.11	Program Management Task Area
5.6.2	Business Management	6.11.3	Business Management
5.6.3	Supplier Management and Procurement	6.11.4	Supplier Management and Procurement
5.6.4	Risk Management	6.5.9	Risk Management
5.6.5	System Engineering	6.5	Systems Engineering Task Area

U.S. Customs and Border Protection

Attachment 2

C3I COP
Award Fee Plan
Version 2

Contract: HSBP1006D01353
Task Order: HSBP1208J19363

Coordinated/Approvals:

(b) (6)

2/4/2009
Date

(b) (6)

2/4/09
Date

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SBInet Contracting Officer
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Date

Record of Changes

Change Number	Date	Reference (Table, Figure, or Paragraph Sections)	A=Add M=Modify D=Delete	Brief Description of Change	Change Request #
N/A	12/7/2007	Version 1		Initial	
1	12/2008	Version 2	M	Termination of CLINs 0001B and 0001C; and Definitization of the NOC/SOC proposal, dated November 14, 2008.	P00010

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1.0 Overview

The Department of Homeland Security (DHS) has the statutory authority to develop and implement a comprehensive strategy for securing America's borders and reducing illegal immigration. Secure Border Initiative (SBI) was created to achieve this strategy and the following core objectives: gain effective control of the borders, strengthen interior enforcement and compliance with immigration and customs laws, and support passage of a temporary worker program. A critical component of the Secure Border Initiative (SBI) is the SBI*net* program. DHS has designated US CBP as the executive agent for the contracting and implementation of the SBI*net* program, which will provide frontline personnel advantages in securing the nation's land border by fielding the most effective mix of current and next generation technology, infrastructure, staffing and response platforms.

To motivate the Contractor to excel in the areas that are critical to the success and meeting the objectives of the C3I project such as management, technical, cost and schedule performance, the C3I project will use a Cost Plus Award Fee contract type. The award fee is the monetary amount that the Contractor may earn in whole or part during performance of the Task Order.

1.1 Scope

This Award Fee Plan (AFP) describes the Award Fee Board (AFB) organization, roles and responsibilities and the categories, processes and procedures used to evaluate Contractor's performance. It shall serve as the basis for the SBInet AFB's evaluation of the Contractor's performance on the SBInet C3I Task Order, for the purpose of presenting an assessment of that performance to the Fee Determining Official (FDO) and determining the award fee on this program. The AFP is intended as a proactive management tool to provide incentives for the Contractor to efficiently and effectively manage and execute the C3I Task Order (awarded under the SBInet ID/IQ Contract No. HSBP1006D01353).

2.0 Organizational Structure

The Award Fee organization consists of: the AFB, the performance monitors, and Fee Determining Official (FDO).

The AFB will consist of the following core and invited Government SBInet stakeholders designated by the FDO:

(1) Director, Projects - Invited
(2) Director, Mission Engineering - Core
(3) Director, Facilities & Infrastructure - Invited
(4) Director, Integrated Logistics - Invited
(5) Director, SBI*net* Field Offices - Invited
(6) Chief Counsel – Invited
(7) Chief Engineer - Invited

(8) Award Fee Monitors - Core
(9) Procuring Contracting Officer (PCO) - Core
(10) Contracting Officer's Technical Representative (COTR) – Core
(11) CBP Sr. Leadership Representatives (Border Patrol, Air & Marine, OFO) - Core

The Award Fee Board may designate or substitute alternative evaluation board members as necessary. The Contractor will be notified within 48 hours before the start of the Award Fee meeting of the names and titles of the AFB members.

3.0 Roles and Responsibilities

Fee Determining Official (FDO) The SBI Executive Director will serve as the FDO. The responsibilities of the FDO include:

- Designate AFB Chairperson and AFB members,
- Review AFB Performance Report and the recommendation of the AFB,
- Use this data to make a determination of performance and award fee, as prescribed by the Task Order.
- Review and approve the award fee guidance and weights that are to be applied for subsequent evaluation periods
- Provide the Procuring Contracting Officer (PCO) a final performance evaluation and determination of the award fee for that period.

The FDO will take into consideration all the performance recommendations provided by the AFB and determine the amount of award fee to be paid to the Contractor for performance during each evaluation period. The FDO has the authority to modify the recommended evaluation of the AFB. Any award fee determination made by the FDO is a unilateral decision made solely at the discretion of the Government.

Award Fee Board Chairperson (AFBC) - The C3I Project Manager will serve as the AFBC on this contract. The Chairperson's responsibilities are:

- Review all documentation submitted by the AFB Coordinator prior to its submittal to the AFB. The AFB Chairperson must ensure that the Performance Monitor's ratings are accurately weighted for the evaluation periods as well as pertinent to the evaluation criteria, and approve the Award Fee Evaluation and Recommendation Report.
- Ensure participants are aware of the period performance criteria
- Review/Approve the Performance Monitors report for submission to the AFB and include one recommended score for all areas
- Ensure that AFB Members have the applicable AFB Rating Form to document specific Contractor actions or inactions during that performance period that support their initial performance rating
- Participate in discussions with the Contractor on the results of the mid-point AFB Meeting (if required) as may be requested by the FDO
- Brief the Contractor with the results of the FDO determination and the Performance Report

- Discuss with the Contractor the evaluation guidance and weighting factors for subsequent evaluation periods.

The AFBC may change monitor assignments at any time without advance notice to the Contractor. However, the AFBC will notify the Contractor of all monitor assignments and changes within 48 hours of an AFB meeting.

Procuring Contracting Officer (PCO) – The responsibilities of the PCO are:

- Participate as a core member of the Award Fee Board
- Issue a modification to the task order to reflect the Award Fee earned as determined by the FDO
- Update the Plan as required
- Correspond with the Contractor as required

Performance Monitors – The responsibilities of the Performance Monitors are:

- Be familiar with the Task Order requirements and the performance rating categories in assigned areas.
- Monitor, evaluate and assess Contractor's performance IAW with the Task Order requirements and AFP, and review and analyze all available data relevant in assigned areas during the period under evaluation.
- Prepare and submit a Performance Monitor Evaluation Report (PMER) and provide recommended scores per award fee performance evaluation category (Section 6.0) to the Award Fee Board Coordinator for each area of direct cognizance. Submit within 14 calendar days after the end of the evaluation period.
- Be available to discuss evaluation and brief the AFB, FDO or Contractor on assigned area and provide additional information if requested.
- Maintain written documentation/record of Contractor's performance in assigned area in detail to provide substantiation for the PMER ratings.
- Recommend changes to the AFP

Award Fee Board Coordinator – The responsibilities of the Award Fee Board Coordinator are:

- Schedule midpoint AFB meetings and notify Contractor
- Collect Performance Monitor input to support the midpoint assessment and distribute to AFB members prior to midpoint meeting
- Record the midpoint AFB assessments
- Collect input to support the performance assessment
- Assist the AFB Chairperson in preparing award fee notification letter
- Distribute the Contractor's Award Fee Self Evaluation Report to the AFB members In Accordance With (IAW) Table 2.
- Collect written Performance Monitor evaluations and distribute them to the AFB members IAW Table 2.
- Advise PCO on status of current Award Fee matters. Seek PCO guidance and counsel when appropriate.
- Attend each AFB Meeting and record comments throughout the meeting