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ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

PAGE OF PAGES

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IMPORTANT: Mark all packages and papers with contract and/or order numbers. DATE OF ORDER CONTRACT NO. ORDER NO. 05/23/2008 HSHQDC-06-D-00024 HSHQDC-08-J-00134 ITEM NO. SUPPLIES/SERVICES QUANTITY UNIT TAUOMA QUANTITY ORDERED ACCEPTED (A) (D) (B) (C) (E) (F) (G) Admin Office: Department of Homeland Security Office of Procurement Ops. (ITAC) 245 Murray Drive Bldg. 410 Washington DC 20528 0001 CPFF 1 LO Engineering support to the HSIN Next 6(4) 10,000,000.00 Generation in accordance with the attached Performance Work Statement (PWS)dated April 14, 2008 and the Functional Requirements Document (FRD) dated March , 11 2008 Estimated Cost (6(4) Fixed Fee (b(4)) Total CPFF \$18,948,705 Total Line Item Value\$18,948,405.00 Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES Accounting Info: (6(2) Funded: \$9,000,000.00 Accounting Info: 6(2)Funded: \$1,000,000.00 1 LO 0002 Option 1 6(4) 0.00 CPFF Engineering support to the HSIN Next Generation in accordance with the attached Performance Work Statement (PWS)dated April 14, 2008 and the Functional Requirements Document (FRD) dated March , 11 2008 Estimated Cost (Fixed Fee (6(4) Total CPFF 6(4) Amount: (\{Option Line Item) Product/Service Code: R425 Product/Service Description: Continued ...

ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

PAGE OF PAGES

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IMPORTANT: Mark all packages and papers with contract and/or order numbers. DATE OF ORDER CONTRACT NO. ORDER NO. 05/23/2008 HSHQDC-06-D-00024 HSHODC-08-J-00134 QUANTITY UNIT AMOUNT QUANTITY ITEM NO. UNIT SUPPLIES/SERVICES ACCEPTED ORDERED PRICE (C) (G) (D) (F) (A) (B) (E) ENGINEERING & TECHNICAL SERVICES I rol(6(4)) 0.00 0003 Option 2 CPFF Engineering support to the HSIN Next Generation in accordance with the attached Performance Work Statement (PWS)dated April 14, 2008 and the Functional Requirements Document (FRD) dated March , 11 2008 Estimated Cost (b(4))Fixed Fee (b(4))Total CPFF Amount: (6(4)):(Option Line Item) Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES 1 LO (b(4) 0.00 0004 Option 3 CPFF Engineering support to the HSIN Next in accordance with the attached Performance Work Statement (PWS)dated April 14, 2008 and the Functional Requirements Document (FRD) dated March , 11 2008 Fixed Fee (b(4))
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ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

PAGE OF PAGES

IMPORTANT: Mark all packages and papers with contract and/or order numbers. DATE OF ORDER CONTRACT NO. ORDER NO. 05/23/2008 HSHQDC-06-D-00024 HSHODC-08-J-00134 SUPPLIES/SERVICES QUANTITY UNIT ORDEŖED ITEM NO. UNIT AMOUNT QUANTITY PRICE ACCEPTED (A) (C) (E) (F) (G) (FRD) dated March , 11 2008 Estimated Cost (b(4))Fixed Fee (b(4))
Total CPFF (b(4)) 6(4)) (Option Line Amount: (Item) Product/Service Code: R425 Product/Service Description: ENGINEERING & TECHNICAL SERVICES The total amount of award: \$62,106,429.00. The obligation for this award is shown in box 17(i). TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

NSN 7540-01-152-8082

Section D - Packaging and Marking

D.1 – Packaging and Marking

Packaging and marking shall be performed in accordance with the instructions of the basic EAGLE contract.

Section E - Inspection and Acceptance

E.1 - Inspection and Acceptance

EAGLE sections E.1 and E.2 FAR clauses incorporated by reference.

E.2 – Inspection and Acceptance – Quality Assurance

As a performance based task order, the contractor identified performance measures and metric/service level agreements will form the basis of the inspection and acceptance Quality Assurance program.

Using the contractor provided metrics, the Government and the contractor will agree on a Quality Assurance framework, and methodology to establish initial performance levels and the ongoing performance level management. The Governance framework will continuously seek to refine, allocate and adjust service levels to reflect changes in priority and to ensure that throughout the life of this agreement that the program delivers improved performance and reduced cost.

E.3 – Place of Inspection and Acceptance

Inspection and acceptance of all work performed, reports, and other deliverables under this task order shall be performed by the Contracting Officer's Technical Representative (COTR) in accordance paragraphs E.4 through E.8.

E.4 – Scope of Inspection

All deliverables will be inspected for content, completeness, accuracy and conformance to the task order requirements by the COTR.

E.5 – Basis of Acceptance

- a. The basis for acceptance of services will be in compliance with the best commercial practices and those requirements provided in the task order.
- b. Items such as Other Direct Costs (ODC) (e.g. travel, equipment purchases) must be approved in advance. Request for ODC purchases must include a ROM estimate. ODCs will be accepted upon receipt of proper documentation as specified in the performance work statement (PWS).
- c. Reports, documents, and narrative type deliverables will be accepted when all discrepancies, errors, or other deficiencies identified in writing by the Government have been corrected.

- d. The contractor shall provide electronic copies of each deliverable. Electronic copies shall be delivered via email attachment or other media by mutual agreement of the parties. The electronic copies shall be compatible with MS Office 2000 or other applications as appropriate and mutually agreed to by the parties.
- e. The contractor shall use best commercial practice for formatting deliverables under this contract.
- f. All of the Government's comments on deliverables must either be incorporated in the succeeding version or the contractor must demonstrate to the Government's satisfaction why such comments should not be incorporated.
- g. If the Government finds that a draft or final deliverable contains spelling errors, grammatical errors, improper format, or otherwise does not conform to the requirements stated within this solicitation, the document may be immediately rejected without further review and returned to the contractor for correction and re-submission. If the contractor requires additional Government guidance to produce an acceptable draft, the contractor shall arrange a meeting with the COTR.
- h. For software development, the final acceptance of the software program will occur when all discrepancies, errors or other deficiencies identified in writing by the Government have been resolved, either through documentation updates, program correction, or other mutually agreeable methods.

E.6 - Draft Deliverables

The Government will provide written acceptance, comments and/or change requests, if any, within 15 working days from receipt by the Government of each initial deliverable. Upon receipt of the Government comments, the contractor shall have 15 working days to incorporate the government's comments and/or change requests and to resubmit the deliverable in its final form.

E.7 - Written Acceptance

The Government shall provide written notification of acceptance or rejection of all final deliverables within thirty (30) calendar days of receipt. All notifications of rejection will be accompanied with an explanation of the specific deficiencies causing the rejection. The contractor shall assume acceptance if not notified by the Government within thirty (30) calendar days.

E.8 – Non-Conforming Products or Services

Non-conforming products or services will be rejected. Deficiencies will be corrected within 30 calendar days of the rejection notice. If the deficiencies cannot be corrected within 30 calendar days, the contractor will immediately notify the COTR of the reason for the delay and provide a proposed corrective action plan within ten (10) working days of notification.

Section F - Deliveries and Performance

F.1 – Period of Performance

The task order's basic period of performance shall be from May 27, 2008 – May 26, 2009. Beyond the base period, there are four one-year option periods. Taken together with the base period and option periods, the task order term may last for a total period not to exceed five years.

Periods of Task Order Performance to begin as follows:

Base Period: May 27, 2008 – May 26, 2009 Option Year 1: May 27, 2009 – May 26, 2010 Option Year 2: May 27, 2010 – May 26, 2011 Option Year 3: May 27, 2011 – May 26, 2012 Option Year 4: May 27, 2012 – May 26, 2013

F.2 – Option to Extend the Term of the Contract

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

- (a) The Government may extend the term of this contract by written notice to the Contractor within 30 days; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension.
- (b) If the Government exercises this option, the extended contract shall be considered to include this option clause.
- (c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 60 months, excluding an extension under 52.217-8.

F.3 - Place of Performance

The primary place of performance for the HSIN NextGen task order contractor shall be at the contractor's facility which is required to be located within the National Capital Region, or a fifty mile radius of the DHS Office of Operations Coordination (OPS), currently at the Nebraska Avenue Complex (NAC) in NW Washington DC. HSIN NextGen system build activities shall be conducted at the DHS Data Centers (to be determined) and HSIN NextGen testing tasks may require periods of travel to one or more of the DHS HSIN NextGen stakeholder offices located in the continental United States, United States territories, and internationally.

Section G - Contract Administration Data

G.1 – Contracting Officer

The TO Contracting Officer (TO CO) is the only person authorized to make any changes, approve any changes in the requirements of this Task Order, obligate funds and authorize the expenditure of funds, and notwithstanding any provisions contained elsewhere in this task order, the said authority remains solely in the TO CO. In the event the contractor makes any changes at the direction of any person other than the TO CO, the change will be considered to have been without authority and no adjustment will be made in the task order price to cover any increase in costs occurred as a result thereof. It is incumbent on the Contractor to make sure that this requirement is enforced, or work performed will be performed at the Contractor's own risk.

The following TO Contracting Officer is assigned to this Task Order:

TO Contracting Officer:

NAME: Purnell Drew PHONE NO.: (202) 447- (6(2)) EMAIL: (6(2)

G.2 – Contracting Officer's Technical Representative (COTR)
COTR (HSAR 3052.242-72)(DEC 2003)

- (a) The Contracting Officer may designate Government personnel to act as the Contracting Officer's Technical Representative (COTR) to perform functions under the task order such as review or inspection and acceptance of supplies, services, including construction, and other functions of a technical nature. The Contracting Officer will provide a written notice of such designation to the Contractor within five working days after task order award. The designation letter will set forth the authorities and limitations of the COTR under the task order.
- (b) The principal role of the COTR is to support the Contracting Officer in managing the work conducted under Section C of this Task Order. This is done through furnishing technical direction within the confines of the task order, monitoring performance, ensuring requirements are met within the terms of the task order, and maintaining a strong relationship with the Contracting Officer. As a team, the Contracting Officer and COTR must ensure that program requirements are clearly communicated and that the services are performed to meet them.
- G.3 Contracting Officer's Technical Representative Designation The following TO COTR is assigned to this Task Order:

NAME: (b(2) b(4))
PHONE NO.: (202) 447-(b(2))
EMAIL: (b(2) b(4)

G.4 – Changes in COTR Designation(s)

The COTR may be changed at any time by the Government without prior notice to the Contractor. Notification of the change, including the name and phone number of the successor COTR, will be promptly provided to the Contractor by the TO Contracting Officer in writing.

G.5 - Invoice Submission - Data Elements

The data elements indicated below shall be included on each invoice. Details and format of invoices shall be consistent with structure specified by the COTR.

Vendor Name

Invoice Number

Invoice Date

Date of Service/Product provided

Payment/Vendor Address, Telephone Number, Other Contact information

Task Order Month

Fiscal Year

Payment Due Date

Contract Number

Task Order Number

Work Order number (if applicable)

DHS Functional/Budget Code/Accounting Data

Cumulative Value to Date

Total Amount Invoiced

Vendor Point-of-Contact

DHS Point-of-Contact

Grand Total per Invoice

Page Numbers

Shipping and Payment term

G.6 – Invoice Submission – Material Order Status Report

A report of all material/labor billed to DHS is required each month to track outstanding equipment in the "field" or residing at DHS HQ. The report shall include a status of the DHS 700-21 Material Inspection and Receiving Report, a government Point-of-Contact (POC), the equipment delivery location, equipment operational location, cost of each unit, lease duration/useful life, date of acquisition, type of equipment, system capabilities/specifications, and the bureau the equipment is supporting. The data must be provided in an application that is consistent with DHS approved software, preferably Microsoft Excel or Microsoft Access format.

G.7 - Electronic Invoice Submission

Electronic invoices must be submitted to: www.DOB-Invoice@DHS.GOV within thirty (30) days of services rendered.

G.8 - Travel

Travel Regulations

As required by EAGLE Contract section H.6.1, the contractor shall comply with the guidance in FAR 31.205-46 using the regulations specified below.

- a. Federal Travel Regulations (FTR) prescribed by the General Services Administration, for travel in the contiguous United States.
- Joint Travel Regulations (JTR), Volume 2, DoD Civilian Personnel, Appendix A. prescribed by the Department of Defense, for travel in Alaska, Hawaii, and outlying areas of the United States.
- c. Department of State Standardized Regulations (DSSR) (Government Civilians, Foreign Areas), Section 925, "Maximum Travel Per Diem Allowances for Foreign Areas", prescribed by the Department of State, for travel in areas not covered in the FTR or JTR.

Travel Authorization Requests

Prior to any long distance travel, the contractor shall prepare a Travel Authorization Request for Government review and COTR approval. The contractor shall use only the minimum number of travelers and rental cars needed to accomplish the task(s). Travel shall be scheduled during normal duty hours whenever possible.

Content of Travel Requests

Requests for travel approval shall contain:
Date, time and points of departure
Destination, time and dates of arrival
Name of each contractor employee and position title
Include a description of the travel proposed including a statement as to purpose
Identify the Task Order number
Identify the CLIN(s) associated with the travel
Be submitted in advance of the travel with sufficient time to permit review and approval.

G.9 – Incremental Funding

- (1) The contractor is required to comply with the terms and conditions of the contract in accordance with FAR Clause 52.232-22, Limitation of Funds. A total of \$10,000,000.00 has been provided as incremental funding. The amount of (6(4))) as been allotted to cover the costs incurred in the performance of the services specified in the PWS. An additional (6(4)) has been allotted to cover the fixed fee.
- (2) In accordance with the Limitation of Funds clause, the Government shall not be obligated to reimburse the contractor for any costs (including termination costs) in excess of the above-stated amount and the contractor will not be obligated to continue performance or incur cost in excess of the above-stated amount until additional funds are made available by the issuance of a unilateral modification from the Contracting Officer. In accordance with paragraph B of the Limitation of Funds clause, \$10,000,000.00 has been allotted to cover the costs and fee incurred in the performance of the services specified in the SOW.
- (3) The above funds are estimated to cover the period from date of task order award through December 1, 2008.

Section H - Special Task Order Provisions

H.1 - General

The contractor shall comply with the terms and conditions of the EAGLE contract in addition to the special provisions set forth in the Task Order RFP.

H.2 - Key Personnel

Under H.2, KEY PERSONNEL, paragraph (b) of the basic contract, the following personnel are determined to be key personnel within the meaning of the provision:

Position Program Manager Chief Architect Development/Integration Manager Operations Manager

H.3 - Security Requirements

All of the effort to be performed by this task order will require access/protection of SBU information/data. The contractor shall ensure that all appropriate security and protection actions are taken (including providing personnel and procedures) consistent with the task security requirements.

The contractor will have access to and be working with information that is sensitive but unclassified, as defined by the Computer Security Act of 1987. Furthermore, the information is subject to the provisions of the Privacy Act (or any other appropriate law that applies to the information to be handled). This information will be treated as confidential information.

If the contractor is to perform work at their site:

The contractor's facility and ADP systems are required to be accredited and certified in accordance with OMB Circular A-130 Appendix III. Contact DHS' Information System Security Office for additional information.

- H.4 Mandatory Security Requirement Security Requirements for Unclassified Information Technology Resources
- (a) The Contractor shall be responsible for Information Technology (IT) security for all systems connected to a DHS network or operated by the Contractor for DHS, regardless of location. This clause applies to all or any part of the contract that includes information technology resources or services for which the Contractor must have physical or electronic access to sensitive information contained in DHS unclassified systems that directly support the agency's mission.
- (b) The Contractor shall provide, implement, and maintain an IT Security Plan. This plan shall describe the processes and procedures that will be followed to ensure appropriate security of IT resources that are developed, processed, or used under this contract.

- (1) Within 30 days after contract award, the contractor shall submit for approval its IT Security Plan, which shall be consistent with and further detail the approach contained in the offeror's proposal. The plan, as approved by the Contracting Officer, shall be incorporated into the contract as a compliance document.
- (2) The Contractor's IT Security Plan shall comply with Federal laws that include, but are not limited to, the Computer Security Act of 1987 (40 U.S.C. 1441 et seq.); the Government Information Security Reform Act of 2000; and the Federal Information Security Management Act of 2002; and with Federal policies and procedures that include, but are not limited to, OMB Circular A-130.
- (3) The security plan shall specifically include instructions regarding handling and protecting sensitive information at the Contractor's site (including any information stored, processed, or transmitted using the Contractor's computer systems), and the secure management, operation, maintenance, programming, and system administration of computer systems, networks, and telecommunications systems.
- (c) Examples of tasks that require security provisions include--
- (1) Acquisition, transmission or analysis of data owned by DHS with significant replacement cost should the contractor's copy be corrupted; and
- (2) Access to DHS networks or computers at a level beyond that granted the general public (e.g., such as bypassing a firewall).
- (d) At the expiration of the contract, the contractor shall return all sensitive DHS information and IT resources provided to the contractor during the contract, and certify that all non-public DHS information has been purged from any contractor-owned system. Components shall conduct reviews to ensure that the security requirements in the contract are implemented and enforced.
- (e) Within 6 months after contract award, the contractor shall submit written proof of IT Security accreditation to DHS for approval by the DHS Contracting Officer. Accreditation will proceed according to the criteria of the DHS Sensitive System Policy Publication, 4300A (Version 2.5, September 30, 2007) or any replacement publication, which the Contracting Officer will provide upon request. This accreditation will include a final security plan, risk assessment, security test and evaluation, and disaster recovery plan/continuity of operations plan. This accreditation, when accepted by the Contracting Officer, shall be incorporated into the contract as a compliance document. The contractor shall comply with the approved accreditation documentation.

H.5 - Mandatory Security Requirement - Security Review

The Government may elect to conduct periodic reviews to ensure that the security requirements contained in this contract are being implemented and enforced. The Contractor shall afford DHS including the Office of Inspector General, Contracting Officers Technical Representative (COTR), and other government oversight organizations, access to the Contractor's facilities, installations, operations, documentation, databases, and personnel used in the performance of this contract. Access shall be provided to the extent necessary for the government to carry out a program of inspection, investigation, and audit to safeguard against threats and hazards to the integrity, availability, and confidentiality of DHS data or the function of computer systems operated on behalf of DHS, and to preserve evidence of computer crime.

H.6 – Mandatory Security Requirement – Access to Unclassified Facilities, Information Technology Resources, and Sensitive Information

The assurance of the security of unclassified facilities, Information Technology (IT) resources, and sensitive information during the acquisition process and contract performance are essential to the DHS mission. DHS Management Directive (MD) 11042.1 Safeguarding Sensitive But Unclassified (For Official Use Only) Information, describes how contractors must handle sensitive but unclassified information. DHS MD 4300.1 Information Technology Systems Security and the DHS Sensitive Systems Handbooks prescribe policies and procedures on security for IT resources. Compliance with these policies and procedures, any replacement publications, or any other current or future DHS policies and procedures covering contractors is required for all work performed under this contract. Contractors shall not use or redistribute any DHS information processed, stored, or transmitted by the contractor except as specified in the task order.

H.7 - Mandatory Security Requirement - Interconnection Security Agreements

Interconnections between DHS and non-DHS IT systems shall be established only through controlled interfaces and via approved service providers. The controlled interfaces shall be accredited at the highest security level of information on the network. Connections with other Federal agencies shall be documented based on interagency agreements, memoranda of understanding, service level agreements or interconnect service agreements.

Components shall document interconnections with other external networks with an Interconnection Security Agreement (ISA). Interconnections between DHS Components shall require an ISA when there is a difference in the security categorizations for confidentiality, integrity, and availability for the two networks. ISAs shall be signed by both DAAs or by the officials designated by the DAA.

H.8 – Associate Contractors

Performance of this effort may require the task order contractor to work closely with other contractors. The close interchange with associate contractor(s) may require access to, or release of, proprietary or limited/restricted rights data. To facilitate close cooperation and maximum effectiveness, the Contractor shall enter into agreement(s) with associate contractors to adequately protect such data from unauthorized use or disclosure.

H.9 – Drug-Free Workplace

Performance under any task order resulting from this Request for Proposal shall be in accordance with FAR 52.223-6 Drug-Free Workplace.

H.10 – Contractor Personnel – Employment Eligibility

The Contractor will ensure that each employee and potential employee provide his/her name and verify their identity. The Contractor shall be responsible to the Government for acts and omissions of his employees as well as Subcontractor(s) and their employees.

Subject to existing law, regulations and/or other provisions of this contract, illegal or undocumented aliens shall not be employed by the Contractor or perform on this contract. The

Contractor shall ensure this provision is expressly incorporated into any and all subcontracts or subordinate agreements issued in support of this contract.

DHS OPS has determined that performance of this contract requires the Contractor, subcontractor(s), vendor(s), etc. (herein known as Contractor), access to sensitive but unclassified (SBU) information. SBU is unclassified information for official use only. Contractor employees that do not have a security clearance and require access to SBU information will be given a suitability determination. Requirements for suitability determination are defined in Section H.15.

H.11 - Contractor Personnel - Continued Eligibility

If a prospective employee is found to be ineligible for access to DHS facilities or information, the Contracting Office Technical Representative (COTR) will advise the Contractor that the employee shall not continue to work or be assigned to work under the contract.

DHS reserves the right to deny and/or restrict entrance to government facilities, prohibit employees from assigned work under the contract, deny and/or restrict handling of classified documents/material to any Contractor employee who DHS determines to present a risk of compromising sensitive Government information.

The Contractor shall report to the DHS Office of Security any and all adverse information brought to their attention concerning employees performing under this contract. Reports based on rumor or innuendo shall not be included. The subsequent termination of employment of an employee does not obviate the requirement to submit this report. The report shall include the employee's name and social security number, along with the adverse information being reported.

H.12 - Contractor Personnel - Termination

The COTR shall be notified of all terminations/resignations within five (5) days of occurrence. The Contractor shall return to the COTR all DHS issued identification cards and building passes that have either expired or have been collected from terminated employees. If an identification card or building pass is not available to be returned, a report shall be submitted to the COTR, referencing the pass or card number, name of individual to who it was issued and the last known location and disposition of the pass or card.

H.13 – Contractor Personnel – Suitability Determination

DHS shall exercise full control over granting, denying, withholding or terminating unescorted government facility and/or access to or handling of both classified and sensitive Government information to Contractor employees based upon the results of a background investigation. DHS may, as it deems appropriate, authorize and grant a favorable entry on duty (EOD) decision based on preliminary security checks. The favorable EOD decision would allow the employees to commence work temporarily prior to the completion of the full investigation. The granting of a favorable EOD decision shall not be considered as assurance that a full employment suitability authorization will follow as a result thereof. The granting of a favorable EOD decision or a full employment suitability determination shall in no way prevent, preclude, or bar the withdrawal or termination of any such access by DHS, at any time during the term of the task order. No employee of the Contractor shall be allowed unescorted access to a DHS facility without a favorable EOD decision or suitability determination by the DHS Office of Security.

H.14 - Contractor Personnel - Background Investigation

Contract employees (to include applicants, temporaries, part-time and replacement employees) under the contract, requiring access to sensitive information, shall undergo a position sensitivity analysis based on the duties, outlined in the Position Designation Determination (PDD) for Contractor Personnel, each individual will perform on the contract. The results of the position sensitivity analysis shall identify the appropriate background investigation to be conducted. All background investigations will be processed through OSI. Prospective Contractor employees shall submit the following completed forms to OSI through the COTR no less than thirty (30) days before the start date of the contract or thirty (30) days prior to entry on duty of any employees, whether a replacement, addition, subcontractor employee, or vendor:

- a. Standard Form 85P, "Questionnaire for Public Trust Positions"
- b. FD Form 258, "Fingerprint Card" (2 copies)
- c. DHS Form 11000-6, "Conditional Access To Sensitive But Unclassified Information Non-Disclosure Agreement"
- d. DHS Form 11000-9, "Disclosure and Authorization Pertaining to Consumer Reports Pursuant to the Fair Credit Reporting Act"
- e. Position Designation Determination for Contract Personnel Form
- f. Foreign National Relatives or Associates Statement

Required forms will be provided by DHS at the time of award of the contract. Only complete packages will be accepted by DHS Office of Security. Specific instructions on submission of packages will be provided upon award of the task order.

Be advised that unless an applicant requiring access to sensitive information has resided in the US for three of the past five years, the Government may not be able to complete a satisfactory background investigation. In such cases, DHS retains the right to deem an applicant as ineligible due to insufficient background information.

The use of Non-U.S. citizens, including Lawful Permanent Residents (LPRs), is not permitted in the performance of this contract for any position that involves access to or development of any DHS Information Technology (IT) systems. DHS OPS will consider only U.S. Citizens and LPRs for employment on this task order. DHS OPS will not approve LPRs for employment on this task order in any position that requires the LPR to access or assist in the development operation, management or maintenance of DHS IT systems. By signing this task order, the Contractor agrees to this restriction. In those instances where other non-IT requirements contained in the contract can be met by using LPRs, those requirements shall be clearly described.

H.15 - Contractor Personnel - Information Technology Security Clearance

When sensitive government information is processed on DHS telecommunications and automated information systems, the Contractor shall provide for the administrative control of sensitive data being processed and adhere to the procedures governing such data as outlined in "DHS IT Security

Program – Publication DHS MD 4300.Pub". Contractor personnel must have favorably adjudicated background investigations commensurate with the defined sensitivity level.

Contractors who fail to comply with DHS security policy are subject to having their access to DHS IT systems and facilities terminated, whether or not the failure results in criminal prosecution. Any person who improperly discloses sensitive information is subject to criminal and civil penalties and sanctions under a variety of laws (e.g., Privacy Act).

H.16 Contractor Personnel – Information Technology Security Training and Oversight

All Contractor employees using DHS automated systems or processing DHS sensitive data shall be required to receive Security Awareness Training.

Contractors involved with management, use, or operation of any IT systems that handle sensitive information within or under the supervision of DHS, shall receive periodic training at least annually in security awareness and accepted security practices and systems rules of behavior. DHS Contractors, with significant security responsibilities, shall receive specialized training specific to their security responsibilities annually. The level of training shall be commensurate with the individual's duties and responsibilities and is intended to promote a consistent understanding of the principles and concepts of telecommunications and IT systems security.

All personnel who access DHS information systems will be continually evaluated while performing these duties. Supervisors should be aware of any unusual or inappropriate behavior by personnel accessing systems. Any unauthorized access, sharing of passwords, or other questionable security procedures should be reported to the DHS Security Office.

H.17 - Security Assurances

DHS Management Directive 4300 requires compliance with standards set forth by NIST, for evaluating computer systems used for processing SBU information. The Contractor shall ensure that requirements are allocated in the functional requirements and system design documents to security requirements are based on the DHS policy, NIST standards and applicable legislation and regulatory requirements. Systems shall offer the following visible security features:

- User Identification and Authentication (I&A) I&A is the process of telling a system the identity of a subject (for example, a user) (I) and providing that the subject is who it claims to be (A). Systems shall be designed so that the identity of each user shall be established prior to authorizing system access, each system user shall have his/her own user ID and password, and each user is authenticated before access is permitted. All system and database administrative users shall have strong authentication, with passwords that shall conform to established DHS standards. All DHS Identification and Authentication shall be done using the Password Issuance Control System (PICS) or its successor. Under no circumstances will Identification and Authentication be performed by other than the DHS standard system in use at the time of a systems development.
- Discretionary Access Control (DAC) DAC is a DHS access policy that restricts access
 to system objects (for example, files, directories, devices) based on the identity of the
 users and/or groups to which they belong. All system files shall be protected by a
 secondary access control measure.

- Object Reuse Object Reuse is the reassignment to a subject (for example, user) of a
 medium that previously contained an object (for example, file). Systems that use
 memory to temporarily store user I&A information and any other SBU information shall
 be cleared before reallocation.
- Audit DHS systems shall provide facilities for transaction auditing, which is the
 examination of a set of chronological records that provide evidence of system and user
 activity. Evidence of active review of audit logs shall be provided to the OPS IT Security
 Office on a monthly basis, identifying all security findings including failed log in attempts,
 attempts to access restricted information, and password change activity.
- Banner Pages DHS systems shall provide appropriate security banners at start up identifying the system or application as being a Government asset and subject to government laws and regulations. This requirement does not apply to public facing internet pages, but shall apply to intranet applications.

H.18 – Data Security

SBU systems shall be protected from unauthorized access, modification, and denial of service. The Contractor shall ensure that all aspects of data security requirements (i.e. confidentiality, integrity, and availability) are included in the functional requirements and system design, and ensure that they meet the minimum requirements as set forth in the DHS Sensitive Systems Handbook and policies and procedures. These requirements include:

- Integrity The computer systems used for processing SBU shall have data
 integrity controls to ensure that data is not modified (intentionally or
 unintentionally) or repudiated by either the sender or the receiver of the
 information. A risk analysis and vulnerability assessment shall be performed to
 determine what type of data integrity controls (e.g., cyclical redundancy checks,
 message authentication codes, security hash functions, and digital signatures,
 etc.) shall be used.
- Confidentiality Controls shall be included to ensure that SBU information collected, stored, and transmitted by the system is protected against compromise. A risk analysis and vulnerability assessment shall be performed to determine if threats to the SBU exist. If it exists, data encryption shall be used to mitigate such threats.
- Availability Controls shall be included to ensure that the system is continuously
 working and all services are fully available within a timeframe commensurate with
 the availability needs of the user community and the criticality of the information
 processed.
- Data Labeling. The contractor shall ensure that documents and media are labeled consistent with the DHS Sensitive Systems Handbook.

H.19 – DHS Information Technology Standards – Homeland Security Enterprise Architecture (HLS EA) Compliance

All solutions and services shall meet DHS Enterprise Architecture policies, standards, and procedures as it relates to this Task Order. Specifically, the contractor shall comply with the following Homeland Security Enterprise Architecture (HLS EA) requirements:

- All developed solutions and requirements shall be compliant with the HLS EA.
- All IT hardware or software shall be compliant with the HLS EA Technology Reference Model (TRM) Standards and Products Profile.
- All data assets, information exchanges and data standards, whether adopted or developed, shall be submitted to the DHS Enterprise Data Management Office (EDMO) for review and insertion into the DHS Data Reference Model.

H.20 – Section 508 of the Rehabilitation Act

Section 508 of the Rehabilitation Act, as amended by the Workforce Investment Act of 1998 (P.L. 105-220) requires that when Federal agencies develop, procure, maintain, or use electronic and information technology, they must ensure that it is accessible to people with disabilities. Federal employees and members of the public who have disabilities must have equal access to and use of information and data that is comparable to that enjoyed by non-disabled Federal employees and members of the public.

All EIT deliverables, including but not limited to IOE Implementation Plans, within this work statement shall indicate how compliance with Section 508 standards will be accomplished for both products and services and shall comply with the applicable technical and functional performance criteria of Section 508 unless exempt. Specifically, the following applicable standards have been identified:

36 CFR 1194.21 – Software Applications and Operating Systems, applies to all EIT software applications and operating systems procured or developed under this task order including but not limited to GOTS and COTS software. In addition, this standard is to be applied to Webbased applications when needed to fulfill the functional performance criteria. This standard also applies to some Web based applications as described within 36 CFR 1194.22.

36 CFR 1194.22 – Web-based Intranet and Internet Information and Applications, applies to all Web-based deliverables, including documentation and reports procured or developed under this task order. When any Web application uses a dynamic (non-static) interface, embeds custom user control(s), embeds video or multimedia, uses proprietary or technical approaches such as, but not limited to, Flash or Asynchronous Javascript and XML (AJAX) then "1194.21 Software" standards also apply to fulfill functional performance criteria.

36 CFR 1194.23 — Telecommunications Products, applies to all telecommunications products including end-user interfaces such as telephones and non end-user interfaces such as switches, circuits, etc. that are produced, developed or used by the Federal Government.

36 CFR 1194.24 – Video and Multimedia Products, applies to all video and multimedia products that are procured or developed under this work statement. Any video or multimedia presentation shall also comply with the software standards (1194.21) when the presentation is through the use of a Web or Software application interface having user controls available.

36 CFR 1194.25 – Self Contained, Closed Products, applies to all EIT products such as printers, copiers, fax machines, kiosks, etc. that are procured or developed under this task order. Specifically but not limited to items using biometrics as described in this work order shall apply with this requirement as well as any other technical standard involving the use of software or Web based interfaces.

36 CFR 1194.26 – Desktop and Portable Computers, applies to all desktop and portable computers, including but not limited to laptops and personal data assistants (PDA) that are procured or developed under this work statement.

36 CFR 1194.31 – Functional Performance Criteria, applies to all EIT deliverables regardless of delivery method. All EIT deliverable shall use technical standards, regardless of technology, to fulfill the functional performance criteria.

36 CFR 1194.41 – Information Documentation and Support, applies to all documents, reports, as well as help and support services. To ensure that documents and reports fulfill the required "1194.31 Functional Performance Criteria", they shall comply with the technical standard associated with Web-based Intranet and Internet Information and Applications at a minimum. In addition, any help or support provided in this task order that offer telephone support, such as, but not limited to, a help desk shall have the ability to transmit and receive messages using TTY.

Exceptions for this task order have been determined by DHS and only the exceptions described herein may be applied. Any request for additional exceptions shall be sent to the COTR and determination will be made in accordance with DHS MD 4010.2. DHS has identified the following exceptions that may apply:

36 CFR 1194.2(b) – (COTS/GOTS products), When procuring a product, each agency shall procure products which comply with the provisions in this part when such products are available in the commercial marketplace or when such products are developed in response to a Government solicitation. Agencies cannot claim a product as a whole is not commercially available because no product in the marketplace meets all the standards. If products are commercially available that meet some but not all of the standards, the agency must procure the product that best meets the standards.

When applying this standard, all procurements of EIT shall have documentation of market research that identify a list of products or services that first meet the agency business needs, and from that list of products or services, an analysis that the selected product met more of the accessibility requirements than the non-selected products as required by FAR 39.2. Any selection of a product or service that meets less accessibility standards due to a significant difficulty or expense shall only be permitted under an undue burden claim and requires approval from the DHS Office on Accessible Systems and Technology (OAST) in accordance with DHS MD 4010.2.

36 CFR 1194.3(b) – Incidental to Contract, all EIT that is exclusively owned and used by the contractor to fulfill this task order does not require compliance with Section 508. This exception does not apply to any EIT deliverable, service or item that will be used by any Federal employee(s) or member(s) of the public. This exception only applies to those contractors assigned to fulfill the obligations of this task order and for the purposes of this requirement, are not considered members of the public.

H.21 - Advertisements, Publicizing Awards, and News Releases

All press releases or announcements about agency programs, projects, and contract (task order) awards need to be cleared by the Program Office and the Contracting Officer. Under no circumstances shall the Contractor, or anyone acting on behalf of the Contractor, refer to the supplies, services, or equipment furnished pursuant to the provisions of this contract in any

publicity news release or commercial advertising without first obtaining explicit written consent to do so from the Program Office and the Contracting Officer.

The Contractor agrees not to refer to awards in commercial advertising in such a manner as to state or imply that the product or service provided is endorsed or preferred by the Federal Government or is considered by the Government to be superior to other products or services.

Section I - Task Order Clauses

Federal Acquisition Regulation (48 CFR Chapter 1) Solicitation Clauses (http://www.arnet.gov/far/)

FAR Clause No.	Title	Date
52.251-1	Government Supply Sources	Apr 1984
52.204-2	Security Requirements	Aug 2006
52.204-9	Personal Identity Verification of Contractor Personnel	Sep 2007
52.215-19	Notifications of Ownership Changes	Oct 1997
52.215-21	Requirements For Cost Or Pricing Data Or Information Other Than Cost Or Pricing Data – Modifications Alternate IV	Oct 1997
52.232-20	Limitation Of Costs	Apr 1984
52.232-22	Limitation Of Funds	Apr 1984
52.217-8	Option To Extend Services (Fill-in: 30 days)	Nov 1999
52.219-8	Utilization Of Small Business Concerns	May 2004
52.219-9	Small Business Subcontracting Plan	Sep 2006
52.227-14	Rights In Data – General Alternates IV And V	Jun 1987
52.227-21	Technical Data Declaration Revision And Withholding Of Payment – Major Systems	Jan 1997
52.232-18	Availability Of Funds	Apr 1984
52.237-3	Continuity of Services	Jan 1991
52.244-6	Subcontracts For Commercial Items	Mar 2007
52.245-1	Government Property	Jun 2007
52.245-2	Government Property Installation Operation Services	Jun 2007

DHS AND FAR CLAUSES

Homeland Security Acquisition Regulation (HSAR) Clauses Incorporated By Reference (http://farsite.hill.af.mil/vfhsara.htm)

HSAR Clause No.	Title	Date
3052.204-70 (EAGLE I.2)	Security Requirements for Unclassified Information Technology Resources	Dec 2003
3052.204-71 (EAGLE I.13)	Contractor Employee Access	Jun 2006
3052.209-70 (EAGLE I.3	Prohibitions on Contracts with Corporate Expatriates	Dec 2003
3052-209-72 (EAGLE H.33)	Organizational Conflict of Interest	Jul 2004
3052-209-73	Limitation of Future Contracting	Jul 2004
3052.222-70	Strikes or Picketing Affecting Timely Completion of the Contract Work	Dec 2003
3052.222-71	Strikes or Picketing Affecting Access to a DHS Facility	Dec 2003
3052.245-70	Government Property Reports	Jun 2006
If Applicable (EAGLE Ref):		
3052.216-72 (1.7)	Performance Evaluation Plan	Dec 2003

⁻ END OF TASK ORDER PROVISIONS AND CLAUSES -

Section J - List of Attachments

J.1 - List of Attachments

Attachment J-1 – Performance Work Statement

Attachment J-2 - Functional Requirements Document



Homeland Security Information System (HSIN) Next Generation (NextGen) Task Order

PERFORMANCE-BASED WORK STATEMENT

April 14, 2008

Department of Homeland Security
Office of Procurement Operations

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1.0 BACKGROUND

The purpose of the Enterprise Acquisition Gateway for Leading Edge Solutions (EAGLE) Homeland Security Information Network (HSIN) Next Generation (NextGen) Task Order is to acquire IT support services for the Department of Homeland Security (DHS) Office of Operations Coordination (OPS) Directorate to develop, operate, maintain, and enhance the HSIN NextGen. This Performance Work Statement (PWS) identifies DHS OPS' HSIN NextGen performance requirements for the HSIN NextGen task order contractor.

The mission of the HSIN NextGen is to provide a national secure and trusted platform for information sharing and collaboration between Federal, State, Local, Tribal, Territorial, Private Sector, and International partners engaged in preventing, protecting from, responding to, and recovering from all threats, hazards, and incidents within the authority of DHS.

To support the Department mission, HSIN provides a common, interoperable IT architecture for gathering, fusing, analyzing, and reporting information and threats to the US Homeland. The Common Operational Picture (COP) service is hosted by HSIN and provides leaders and stakeholders with timely, accurate, relevant, and highly integrated all-source information to enhance operational situational awareness and actionable decision making. HSIN and COP are governed by the Homeland Security Act (HSA) of 2002, Homeland Security Presidential Directive (HSPD) #5, DHS Strategic Plan, and DHS Objectives.

The HSIN NextGen task order encompasses the full range of IT infrastructure engineering design, development, implementation, and integration support services required to meet DHS OPS responsibilities under Federal legislation, Presidential Directives, and DHS mission and objectives.

HSIN is a national information sharing and collaboration platform that provides and/or serves as a conduit to Sensitive But Unclassified (SBU) data and analysis regarding people, places, things, events, resources, and activities lawfully owned and maintained by, and shared in a multi-directional, trusted, and secure environment among, DHS and other domestic and international users who are in mission partnership with DHS for the purpose of supporting missions to prevent, protect from, respond to, and recover from all threats, hazards, and incidents included within the scope of DHS authority.

HSIN NextGen will update the current HSIN technology to better enable DHS to meet the requirements of a trusted and secure environment, combined with enhanced capabilities in many areas, such as collaboration tools and information sharing. HSIN NextGen will provide a robust, flexible, and highly reliable framework for implementation of tools and services based on Open-Architecture (OA) and open standards-based Commercial Off-The-Shelf (COTS)/Government Off-The-Shelf (GOTS) products and technologies.

2.0 SCOPE

The Department of Homeland Security (DHS) is conducting a task order competition under the EAGLE program for Information Technology (IT) services, Functional Category 1 (FC1), infrastructure engineering design, development, implementation, and integration.

The contractor shall develop, test, and deliver HSIN NextGen that supports the rapid insertion of COTS/ GOTS products, services, applications, processes and network capabilities with the goal of reducing development costs, shortening lead times to field new technologies. HSIN NextGen will provide DHS, DHS partners, and DHS stakeholders information management capabilities and services including a portal, search, collaboration, enterprise content management, and Service Oriented Architecture (SOA)-based information integration and analysis functions to facilitate their collaboration and information sharing needs for SBU data.

The contractor shall be responsible for providing all necessary information technology development and support services needed to analyze requirements, develop and implement recommended solutions, and operate all IT products and services needed to provide as well as to maintain information technology services for the DHS OPS HSIN NextGen. This includes taking the "as is" state and providing transition to and successful outcomes of the "to be" solution. The contractor shall provide information technology development and support services to design, develop, enhance, provide and manage an architecture and information technology infrastructure that is timely, standard, reliable, secure, flexible, responsive, compliant, and cost efficient in meeting needs of DHS, OPS, HSIN and its stakeholders.

The contractor shall operate and maintain the current HSIN technology, which includes the Common Operating Picture (COP) application, services, tools and associated Oracle database, until all users and data have been migrated to the HSIN NextGen technology. At this point, the current HSIN technology will be decommissioned and operations and maintenance support will continue for HSIN NextGen.

The DHS OPS HSIN NextGen scope is intended to accommodate advances in technology that will allow it to continue to improve the DHS OPS' HSIN NextGen mission performance. Throughout the life of the task order, the contractor shall seek ways to incorporate innovative and emerging technologies and information management techniques that, in the most economic and efficient manner and with a view to return on investment objectives, improve both information technology system performance and support and improve DHS OPS HSIN NextGen's overall mission performance.

The requirements for HSIN NextGen shall be implemented based on an iterative spiral implementation approach. The HSIN NextGen spirals are defined as hardware, infrastructure, software, and the COTS/GOTS products, services, and applications identified for inclusion in a specific spiral. HSIN NextGen spirals as defined by the HSIN Statement of Objectives (SOO) are: HSIN-CS Priority requirements; Initial Operational Capability (IOC); Maturing Operational Capability (MOC); and Final Operational Capability (FOC). The contractor shall use the portal and architecture standards approved by the DHS Enterprise Architecture Board (EAB) (see Task Order Attachment J3, DHS Portal Standards). The HSIN-CS Priority Requirements shall be implemented during the first spiral effort. The second spiral effort shall implement the current HSIN 2.X functional requirements described in the HSIN NextGen Functional Requirements Document (FRD) (Task Order Attachment J1), along with the required technical and security

requirements, and transition of users from the current HSIN technology. The third spiral shall complete the transition of users from the current HSIN technology to HSIN NextGen and decommission the current HSIN technology. The fourth spiral shall implement all new functionality (HSIN 3.X) as outlined in the HSIN NextGen FRD, based upon available funding after the completion of the preceding three spirals.

A major intent of the Task Order SOO is to create a "partnership" between DHS OPS and the task order contractor. The DHS OPS/contractor partnership will reflect the attributes of an open, collaborative, and customer-oriented professional relationship; and will serve to ensure the contractors goals are in alignment with those of DHS. In addition to meeting program objectives, the task order contractor is will:

- Establish a contractor/business partner relationship to support the DHS OPS HSIN NextGen;
- Consistently take steps to understand DHS OPS HSIN NextGen's crucial business issues and opportunities;
- Share the risks and responsibilities of joint implementation and initiatives;
- Ensure its products and services deliver tangible and meaningful business benefits;
- Work collaboratively with other contractors, government agencies, and business partners to ensure project success;
- Resolve the complexities and difficulties that are characteristics of implementing, integrating, maintaining, and securing mission-critical IT systems and solutions, as related to HSIN NextGen; and
- Periodically measure and forecast capacity and systems growth in sync with DHS capital planning requirements and constraints.

Under a performance-based task order structure, performance metrics and Service Level Agreements (SLAs) will be used extensively to monitor the performance of this task order. DHS OPS and the task order contractor will baseline and monitor progress using agreed-to performance metrics and SLAs.

2.1 Program Objectives

The contractor shall support DHS OPS HSIN NextGen requirements to provide and maintain an operational, secure and trusted information sharing and collaboration information technology platform and infrastructure to support DHS' mission. The objectives of this requirement are to:

- Receive, under a performance-based task order, highly reliable and secure IT services and support that meet or exceed functional requirements and customer expectations;
- Demonstrate improved performance, reliability, security, and reduced cost of the delivered product and service;
- Demonstrate and measure improved performance and outcome with respect to DHS OPS
 Mission Needs, including rapid, effective collaboration, timely sharing of high-quality,
 accurate and relevant information, and intelligent, measured automation of critical business
 processes;

Attachment J-1

- Establish a flexible, transparent, and responsive performance management information system that provides accurate and timely information and data on program status and performance reporting throughout the life cycle of the HSIN NextGen;
- Develop and provide an enhanced HSIN platform that supports DHS OPS' compliance with Government standards and requirements as well as appropriate inventory, security, quality, control, architecture standards, and reporting requirements;
- Maintain appropriate data rights, documentation of the "design" and "as-built" configurations
 of both instances of HSIN NextGen, and cooperation for transition to another provider, to
 ensure continuity of services in the event of task order termination, or upon task order recompetition; and
- Establish interconnection security agreements, conduct security reviews and maintain physical security of unclassified information technology resources and sensitive information in this task order.

3.0 APPLICABLE DOCUMENTS

The HSIN NextGen program shall be compliant with the following Government standards and requirements:

- Department of Homeland Security System Life Cycle Guide, Draft, Version 0.9
- Department of Homeland Security Portal Standards (as defined in Task Order Attachment J-3)
- Homeland Security Information Network (HSIN) Functional Requirements Document (FRD), Version 5.0, dated March 11 2008
- Homeland Security Enterprise Architecture (HLS EA)
- HLS EA Technical Reference Model (TRM) Standards and Products Profile
- DHS Geospatial Information Infrastructure (GII)
- Federal Enterprise Architecture
- Computer Security Act of 1987
- Government Information Security Reform Act of 2000
- Federal Information Security Management Act of 2002
- OMB Circular A-130 Appendix III
- Section 508 of the Rehabilitation Act of 1973 (amended)
- Federal Travel Regulations, General Services Administration
- Joint Travel Regulations, Volume 2, DoD Civilian Personnel, Appendix A
- Department of State Standardized Regulations, Section 925

The contractor shall incorporate the best commercial practices, industry standards and procedures as defined below:

- Earned Value Management System ANSI/EIA Standard 748-A
- Capability Maturity Model Integrated (CMMI) for Development
- ISO 9001:2000 Quality Management System

4.0 PERFORMANCE REQUIRMENTS

This section is divided into 5 subsections, a Base Year subsection and a subsection for each of the four Option years.

4.1 Base Year

This section is divided into the major activities within the Base Year, including Program and Technical Management, Spiral 1, Spiral 2, Spiral 4 (initial effort), and Operations & Maintenance. Note Spiral 3 is not included in this section since Spiral 3 is an Option 1 year activity, and is included in the Option 1 section.

4.1.1 Program and Technical Management

4.1.1.1 Program Planning and Execution

The contractor shall perform program planning and management to support DHS objectives of the HSIN NextGen.

The contractor shall provide overall program and technical management including active participation in the development of an innovative and efficient transition plan that facilitates the transition from the current HSIN technology to HSIN NextGen. The transition plans shall include strategies and schedules for the agency to transition from the current HSIN technology to HSIN NextGen. The contractor shall ensure that HSIN NextGen installation will not affect other systems located in the designated facility, and that HSIN NextGen downtime is minimized. The contractor will ensure that current users services are not interrupted during the transition and must mitigate risks to achieve a seamless transfer of data.

The program and technical management will involve investment reviews and analysis, as well as contributions to OPS Capital Planning and Investment Control (CPIC) activities and development of Certification and Accreditation (C&A) documents, including Privacy Impact Assessments. The program and technical management will involve contributions to DHS/OPS Enterprise Architecture and Security governance boards and processes.

The contractor shall efficiently provide ongoing delivery of the HSIN NextGen capabilities, technology and services. Ongoing delivery of HSIN NextGen capabilities, technology and services include quality management activities such as the management of related performance measures and execution of quality assurance and quality control plans; management of required changes to SLAs and other agreements relevant to achieving optimal ongoing service delivery; collaboration and frequent communications between the task order contractor and stakeholders internal and external to DHS OPS to ensure optimal service delivery. The contractor shall promote the sense of partnership and provide a service delivery solution architecture that ensures cooperative relationships to solve operational problems.

The contractor shall consider risk management an integral part of the HSIN NextGen service delivery to be performed. Risk management includes ongoing analysis and recommendations regarding existing internal systems and applications that are currently performing at acceptable levels.

The contractor shall also provide program and technical management to include the development of program plans that are consistent with DHS OPS constraints, fall within the bounds of legal authority, and achieve the following objectives:

Attachment J-1

- Maintain and sharpen the DHS OPS focus on mission-oriented services;
- Promote innovative solutions that can be leveraged by the government; and
- Provide increased flexibility and reduction in time to deploy system and/or process changes (fewer barriers to stakeholders for implementing enhancements).

The contractor shall provide best practices, technologies, tools, and support to quality and operational assessments, integration testing and system test and evaluation, including security certification and accreditation, for IT systems.

The contractor shall participate with independent verification and validation to assure the monitoring and evaluation of projects.

The contractor and/or its teaming partners/major subcontractors performing systems engineering on this contract shall use the CMM Integration® (CMMI®) Level 3 processes of the prime contractor or teaming partners/major subcontractors' business unit leading the engineering work on this contract. This includes following the DHS documented System Life Cycle (SLC).

The HSIN NextGen program shall be managed in accordance with the following plans:

- Program Plan
- Tailored Development Processes
- Risk Management Plan
- IT Security Plan
- Master Test and Evaluation Plan
- Software Development Plan
- Quality Assurance Surveillance Plan
- Service Level Agreements
- Integrated Master Plan
- Integrated Master Schedule
- Subcontractor Management Plan
- Configuration Management Plan
- Data Management Plan
- Program Quality Plan
- Training Plans

4.1.1.1.1 Program Plan

The contractor shall develop a Program Plan to define the necessary activities to support DHS OPS objectives.

4.1.1.1.2 Tailored Development Process

The contractor shall define tailored processes and procedures for managing system engineering, software development, implementation, COTS/GOTS integration, organizational change and training, and maintenance. The contractor's processes and DHS System Life Cycle Guide shall be used to establish the specific processes for HSIN development.

4.1.1.1.3 Risk Management Plan

The contractor shall develop a Risk Management Plan to describe the approach to be followed for identification, management and mitigation of program risks including technical, schedule and cost risks.

4.1.1.1.4 IT Security Plan

The contractor shall abide by DHS's policies and procedures on contractor personnel security requirements, set forth in various management directives (MDs). MD 11042.1, Safeguarding Sensitive But Unclassified (For Official Use Only) Information describes how contractors must handle sensitive but unclassified information. MD 4300.1, entitled Information Technology Systems Security, and the DHS Sensitive Systems Handbook, prescribe the policies and procedures on security for Information Technology resources. Compliance with these policies and procedures, any replacement publications, or any other current or future DHS policies and procedures covering contractors specifically, is required in all contracts that require access to facilities, IT resources or sensitive information.

The contractor shall use system security processes in accordance with DHS Information Technology Security Program Publication 4300A and DHS Information Technology Security Program Publication 4300B. The contractor shall provide, implement, and maintain an IT Security Plan for HSIN NextGen within 30 days after contract award. This plan shall describe the processes and procedures that will be followed to ensure appropriate security of IT resources that are developed, processed, or used under this contract. Within 6 months after contract award, the contractor shall submit written proof of IT HSIN NextGen Security accreditation to DHS for approval by the DHS Contracting Officer.

The IT Security Plan shall comply with Federal laws that include but are not limited to the following:

- Computer Security Act of 1987,
- Government Information Security Reform Act of 2000,
- Federal Information Security Management Act of 2002, and
- OMB Circular A-130.

4.1.1.1.5 Master Test and Evaluation Plan

The contractor shall identify and document the scope, content, methodology, sequence, management and responsibilities for HSIN test activities in the Master Test and Evaluation Plan (MTEP).

4.1.1.1.6 Software Development Plan

The contractor shall develop a Software Development Plan (SDP) for the HSIN NextGen work. The contractor shall document the tailored engineering development activities from the contractor's processes and DHS System Life Cycle.

4.1.1.1.7 Quality Assurance Surveillance Plan

The contractor shall support the Government in developing a Quality Assurance Surveillance Plan (QASP) that aligns to the performance goals of the DHS OPS HSIN NextGen.

4.1.1.1.8 Service Level Agreements (SLA)

The contractor shall support the Government in developing Service Level Agreements (SLA) that align to the performance goals of the DHS OPS HSIN NextGen. The contractor shall monitor and make appropriate adjustments as approved by the Government.

4.1.1.2 Earned Value Management Systems (EVMS)

The contractor shall develop and submit monthly Earned Value reports addressing all applicable tasks under this task order as required by the overarching EAGLE contract, section H.32. The contractor shall submit four (4) hard copies of the required Cost Performance Report (CPR) Formats 1, 3, and 5 and the Contractor Funds Status Report ((CSFR) at the task order level) Earned Value reports to the Contracting Officer's Technical Representative (COTR) on a monthly basis by the 15th business day of each month. In addition, the contractor shall submit the Earned Value reports to the COTR via email. The soft copy Earned Value reports shall be transmitted in Microsoft format.

The required Earned Value reports shall include the following:

- CPR Format 1 WBS-oriented cost report: All costs incurred for the applicable tasks under this order shall be organized according to the WBS at a level to be directed by the COTR.
- CPR Format 3 Baseline Report. This format shall provide information on the task order baseline and change tracking. The contractor shall report the following measures: Budgeted Cost of Work Scheduled (BCWS), Actual Cost of Work Performed (ACWP), Budgeted Cost of Work Performed (BCWP Earned Value), cumulative Cost Performance Index (CPI), and cumulative Schedule Performance Index (SPI). Contractor shall also furnish the cumulative time-based Schedule Performance Index.
- CPR Format 5 Problem Analysis Report/Variance Narrative: This report shall discuss and provide explanations for cost and schedule variances that have exceeded threshold. In addition, this report shall provide an explanation as to why the variance occurred and descriptions on how the contractor plans to resolve the cause of the variance. Contractor shall also furnish data monthly on the success for previous corrective actions taken.
- Contract Funds Status Report: This report shall address the current task order funding levels for all task order CLINs.

The Contractor shall use the information in these EVM reports to analyze the effectiveness of the EVMS and both the contract performance and the overall program progress. The Contractor shall take appropriate action based on those findings.

The contractor shall build an event-based Integrated Master Plan (IMP) for the HSIN and HSIN NextGen system that correlates to the Integrated Master Schedule (IMS), Contract Work Breakdown Structure (CWBS), PWS, EVMS and the contractor's organizational structure. The contractor shall identify, based on the CWBS, a hierarchy of key program Events, Accomplishment, Criteria and supporting efforts that define the HSIN NextGen Program. Each program Event, Accomplishment and Criteria shall have specific entrance and exit criteria.

The contractor shall develop and maintain an Integrated Master Schedule (IMS) developed by logically networking detailed program activities. The schedule shall contain the contract IMP events and milestones, accomplishments, criteria, and activities from contract award to the completion of the contract. The contractor shall ensure schedule integration with its subcontractors and shall verify and ensure the validity of the subcontractors' schedule data, including demonstrating effective methods for incorporating schedule data from subcontractors into the contractor's IMS.

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The contractor shall participate in the Integrated Baseline Review within 90 calendar days after contract award. The contractor shall also participate in an IBR within 90 calendar days whenever a major task order modification has been awarded. The objective of the integrated baseline review is for the Government and the contractor to jointly assess areas, such as the Contractor's planning, to ensure complete coverage of the statement of work, logical scheduling of the work activities, resources, and identification of inherent risks.

4.1.1.3 Subcontract Management

The contractor shall develop a Subcontract Management Plan for planning and oversight of the HSIN program subcontractors.

4.1.1.4 Configuration Management

The contractor shall develop and maintain a Configuration Management Plan (CMP). The contractor shall develop and maintain a Data Management Plan (DMP) as an appendix to the CMP. CM personnel shall provide technical and administrative direction and surveillance to identify and document the functional and physical characteristics of a configuration item, control changes to those characteristics, record and report change processing and implementation status, audit and verify compliance with specified requirements.

4.1.1.5 Program Quality Assurance

The contractor shall establish a Program Quality Plan to identify the appropriate quality assurance activities, methods, and tools for the HSIN NextGen program. The Quality Assurance personnel will perform the activities in accordance with the Program Quality Plan and Quality Assurance Surveillance Plan (QASP):

- Monitor program activities, as described in the QASP,
- Perform work product inspections, including review of deliverables,
- Audit activities and products against their documented processes, specifications, standards, and requirements
- Witness tests,
- · Monitor quality activities of subcontractors,
- Manage the quality of products received from suppliers,
- Ensure that corrective or preventive action taken to eliminate the causes of actual or potential non-conformities is appropriate for scope of the problem and the associated risks,
- · Report the results of OA activities, and
- Assist the Government in quality activity, upon request.

4.1.1.6 Program Reviews

The contractor shall conduct program reviews to assess program status. The contractor shall develop and deliver agendas prior to the conduct of customer program review meetings. Program reviews shall identify program risks and issues supporting course-correction planning. The contractor shall prepare minutes that detail the review.

4.1.1.7 Performance Measures

The contractor shall develop and support performance measures collection and reporting derived from this document and the HSIN Functional Requirement Document (FRD). The contractor shall collect and report performance measures in accordance with the QASP. The contractor performance on the HSIN contract shall be verified against performance based metrics that

permit the Government to monitor and report on the contractor's cost, schedule, technical, and management performance while executing the HSIN NextGen contract. The Government may perform surveillance on the contractor's performance in accordance with the surveillance methodologies presented in the QASP. The Contractor Performance Measurement Matrices may be used by Government evaluators to determine compliance with contracted performance required under the contract.

4.1.2 Spiral 1 – HSIN Critical Sectors (HSIN-CS)

This section provides the core activities that support the technical objectives specified by the Statement of Objectives unique to Spiral 1 HSIN-CS capabilities. Spiral 1 shall be completed 30 days after contract award.

4.1.2.1 Technical Management

The contractor Integrated Product Team (IPT) Lead and team members will participate in Spiral 1 program planning, planning for an efficient HSIN to HSIN-CS technology transition, risk identification and mitigation, and tailoring the development process. All solutions and services shall meet DHS Enterprise Architecture policies, standards, and procedures. The contractor shall comply with the following Homeland Security Enterprise Architecture (HLS EA) requirements:

- All developed solutions and requirements shall be compliant with the HLS EA.
- All IT hardware or software shall be compliant with the HLS EA Technical Reference Model (TRM) Standards and Products Profile.
- All data assets, information exchanges and data standards, whether adopted or developed, shall be submitted to the DHS Enterprise Data Management Office (EDMO) for review and insertion into the DHS Data Reference Model.
- In compliance with OMB mandates, all network hardware shall be Internet Protocol version 6 (IPv6) compatible without modification, upgrade, or replacement.

As appropriate, the contractor will contribute to DHS/OPS EA and Security governance boards and processes.

The contractor implementations shall comply with the policies and requirements set forth in the DHS Geospatial Information Infrastructure (GII), including the following:

- The DHS geospatial model shall be used building the GII.
- All data within the GII, whether adopted or developed, shall be submitted to the DHS EDMO for review and insertion into the DHS Reference Model.

4.1.2.2 Architecture and System Engineering

The contractor shall develop system requirements and architecture to support HSIN-CS functional requirements as defined by Task Order Attachment J2 to support up to 20,000 users. The HSIN-CS architecture shall support the basic functionality required from an information sharing portal. The contractor shall document the HSIN-CS system requirements in a draft HSIN System Specification and system architecture in a draft System Design Document (SDD). System requirements shall be allocated to system design components and trace matrix included with the SDD. System design documentation shall include interfaces between the current HSIN

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and HSIN NextGen to facilitate integrated data exchange in accordance with guidance provided from DHS OPS.

4.1.2.3 Analysis, Design, Development and Implementation

The contractor shall implement HSIN-CS functional requirements as defined by Task Order Attachment J2 to support up to 20,000 users. The HSIN-CS implementation will support the basic functionality required from an information sharing portal.

The contractor will set up lab services and install and configure GOTS and COTS products. Activities will include update of user and access information as well as generation of specialized bulk upload scripts.

The contractor shall document unit and integration test plans and procedures and execute tests to ensure the proper operation and function of the HSIN-CS functional requirements. The contractor shall obtain Government approval to transition to System Integration Testing.

The contractor shall develop Spiral 1 software Version Description Document (VDD) describing the software baseline and/or changes that are incorporated in the software release, all of the physical media and documentation associated with the version, applicable security and privacy considerations and license provisions.

4.1.2.4 Certification and Accreditation

The Government will complete Spiral 1 Certification and Accreditation (C&A) activities. The contractor will provide support to the Government to complete the C&A activities.

4.1.2.5 System Test and Evaluation

The contractor shall test HSIN-CS functional requirements as defined by Task Order Attachment J2 to support up to 20,000 users. The HSIN-CS testing shall support the basic functionality required from an information sharing portal.

The contractor shall document and execute test procedures to ensure the proper operation, usability, and function of the HSIN-CS requirements. The contractor shall also perform regression testing to ensure related capabilities are not degraded. The contractor shall include usability testing from the initial design stages through user acceptance. The contractor shall document the results of the testing performed. The contractor shall include support for Government required testing (e.g. user acceptance testing, security test and evaluation, 508 Compliance, Independent Validation and Verification (IV&V)) and C&A. The contractor shall obtain Government approval to transition to site activation.

The contractor shall hold a Customer Operational Readiness Review to obtain Government approval for site activation. The contractor shall develop and deliver presentation materials prior to the conduct of the review. The contractor shall prepare minutes that detail the review.

4.1.2.6 Organizational Change and Training

4.1.2.6.1 Organizational Change

Organizational change management is an integral part of the implementation of the HSIN NextGen solution. The contractor shall be an active participant in the identification of organizational change issues (e.g. stakeholder and workforce management, communications and

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training) and in developing strategies for mitigating the impact and facilitating the adoption of new and reengineered business processes and supporting applications.

The contractor shall include communication mediums and forums that clearly and concisely communicate the anticipated changes; activities that identify and assess areas of organizational resistance; development of tailored strategies and plans to help guide specific stakeholder groups through the transition; and development of plans to mitigate the adverse affects of the proposed changes and promote the benefits of the transformed business process. The contractor shall interview major stakeholders and determine their information resources and needs for the conduct of their mission. The contractor will communicate the potential benefits, timing and training opportunities associated with the HSIN project.

4.1.2.6.2 Training

The contractor shall design and develop a HSIN Training Plan to facilitate the transition of the users to the HSIN-CS technology; develop training materials; and coordinate training schedules.

The contractor shall prepare training materials to include specific operating techniques for all equipment and for maintenance and test.

The contractor shall support delivery of training to the users of HSIN-CS prior to, concurrent with, or shortly after site activation.

4.1.2.7 Operational/Site Activation

The contractor shall activate HSIN-CS functional requirements as defined by Task Order Attachment J2 to support up to 20,000 users. HSIN-CS shall support the basic functionality required from an information sharing portal.

4.1.2.7.1 Installation Plan

The contractor shall design, develop and provide an installation plan that details overall planning, coordination and site preparations, installation procedures, interconnection with existing systems and conversion of data from legacy systems for HSIN-CS.

- 4.1.2.7.1.1 Facilities Management. The contractor shall develop and execute a facilities management program that plans, modifies, installs and supports the development, initial and continued operations and life cycle support activities of the HSIN NextGen.
- 4.1.2.7.1.2 Installation Drawings. The contractor shall design, develop and provide a complete set of detailed Installation Drawings in electronic medium that support installation of HSIN NextGen equipment in DHS and contractor facilities designated for HSIN NextGen operations and support and the interconnection with the facility infrastructure and interconnecting systems such as power, cooling, grounding and communications networks.

4.1.3 Spiral 2 – HSIN NextGen IOC

This section provides the core activities that support the technical objectives specified by the Statement of Objectives unique to Spiral 2 HSIN NextGen IOC capabilities. The contractor shall deliver the Spiral 2 system for IV&V within 8 months after award and achieve IOC within 12 months after the contract award.

4.1.3.1 Technical Management

The contractor IPTs shall participate in program planning, planning for an efficient HSIN-CS to HSIN NextGen technology transition, risk identification and mitigation, incorporation of lessons learned from the Spiral 1, and tailoring the development process. The contractor shall comply with the following Homeland Security Enterprise Architecture (HLS EA) requirements:

- All developed solutions and requirements shall be compliant with the HLS EA.
- All IT hardware or software shall be compliant with the HLS EA Technical Reference Model (TRM) Standards and Products Profile.
- All data assets, information exchanges and data standards, whether adopted or developed, shall be submitted to the DHS Enterprise Data Management Office (EDMO) for review and insertion into the DHS Data Reference Model.
- In compliance with OMB mandates, all network hardware shall be IPv6 compatible without modification, upgrade, or replacement.

As appropriate, the contractor will contribute to DHS/OPS EA and Security governance boards and processes.

The contractor implementations shall comply with the policies and requirements set forth in the DHS Geospatial Information Infrastructure (GII), including the following:

- The DHS geospatial model shall be used building the GII.
- All data within the GII, whether adopted or developed, shall be submitted to the DHS EDMO for review and insertion into the DHS Reference Model.

4.1.3.2 Architecture and System Engineering

The contractor shall develop a system architecture to support IOC HSIN 2.X functional requirements, including Information Assurance (IA) requirements, a multi-level secure platform, and interfaces with existing HSIN services.

HSIN NextGen shall:

- Enable smooth transition from current HSIN technology;
- Meet the requirements of a trusted and secure environment;
- Provide DHS, partners, and stakeholders with information management capabilities and services including a portal, search, collaboration, enterprise contact management; and
- Provide a Service-Oriented Architecture-based information integration.

HSIN NextGen shall be based on Open Architecture and open standards-based Commercial Off-The-Shelf/Government Off-The-Shelf (COTS/GOTS) products and technologies. HSIN NextGen shall interface with existing HSIN services such as COP and Integrated Common Analytical Viewer (iCAV). The contractor shall participate fully in integration support as dictated by ISAs and joint review & deployment processes to interface with COP and iCAV.

The proposed HSIN NextGen architecture solution shall maximize the use of current HSIN services and applications where feasible. HSIN NextGen will provide a robust, flexible, and highly reliable framework for implementation of tools and services based on open, SOA and

COTS products and technologies. The HSIN NextGen architecture solution shall be aligned with the DHS and Federal Enterprise Architectures. The contractor's architecture and systems engineering solution shall expedite deployment of capabilities and retirement of appropriate legacy systems, combined with enhanced capabilities in many areas, such as collaboration tools and information sharing. The contractor's proposed architecture and systems engineering solution will include transition strategies and high-level plans for migrating the current HSIN to the HSIN NextGen. The contractor's proposed architecture and systems engineering solution shall include an assessment of the risks and rewards associated with various architecture, engineering and operating decisions.

The contractor shall minimize risk by proposing architecture and systems engineering solutions that utilize services currently available and proven in the commercial marketplace and, in some cases, sold as COTS and GOTS products, services, applications, processes and network capabilities with the goal of reducing development costs and shortening lead times to field new technologies.

The contractor will establish a system requirements baseline using the Dynamic Object-Oriented Requirements System (DOORS) tool set and document the HSIN NextGen Spiral 2 IOC system requirements in the HSIN System Specification and system architecture in the HSIN NextGen SDD. System requirements shall be allocated to system design components and the trace matrix included with SDD. The SDD shall include interfaces between the current HSIN and HSIN NextGen to facilitate integrated data exchange in accordance with guidance provided from DHS OPS. The contractor shall define and document the design component interface requirements in an Interface Requirement Specification (IRS).

The contractor shall hold a System Requirements Review (SRR). The contractor shall develop and deliver presentation materials prior to the conduct of the review. The contractor shall prepare minutes that detail the review.

4.1.3.3 Analysis, Design, Development and Implementation

The contractor shall facilitate a smooth transition from the current HSIN technology to the HSIN NextGen capabilities and technology. The contractor shall conduct ongoing evaluation, analysis and validation of system requirements to ensure the delivery of anticipated information technology resources, and sensitive information. Planning and implementation of continuous process improvement solutions are included in this activity.

The contractor shall also provide the planning, analysis, design, development, documentation, integration and qualification of this spiral, including developing, documenting, updating and maintaining interfaces between and among the new HSIN NextGen and the current HSIN that facilitate integrated data exchange of appropriate data in accordance with guidance provided by the DHS OPS. The contractor shall provide the integration of all built or procured HSIN NextGen capabilities and IT Services. In addition, the contractor shall include the development and execution of a strategy and plan for the decommissioning of the current HSIN as HSIN NextGen is incrementally deployed.

The contractor shall implement IOC HSIN 2.X functional requirements, including IA requirements, a multi-level secure platform, and interfaces with existing HSIN services. The contractor shall define and document the design component interface definitions in an Interface Design Document.

The contractor shall document unit and integration test plans and procedures and execute tests to ensure the proper operation and function of the HSIN 2.X functional requirements.

The contractor shall provide ongoing service delivery assessments that result in the validation of required outcomes and performance measures. These may include additional market research, alternative analyses, cost benefit analyses, return on investment studies, as well as validation of operational arrangements for the services required in each increment. The contractor shall assist the government in developing SLAs and QASP with measures that align to the performance goals of the DHS OPS HSIN NextGen.

The contractor shall hold a customer Critical Design Review (CDR). The contractor shall develop and deliver presentation materials prior to the conduct of the review. The contractor shall prepare minutes that detail the review.

The contractor shall develop Spiral 2 software Version Description Document describing the software baseline and/or changes that are incorporated in the software release, all of the physical media and documentation associated with the version, applicable security and privacy considerations and license provisions.

4.1.3.4 Certification and Accreditation

The contractor shall develop, maintain and update the HSIN NextGen C&A package to reflect fielded HSIN NextGen capabilities, architectural changes, and addition of or changes to core services for Spiral 2. The Government will be responsible for completing the C&A activities.

4.1.3.5 System Test and Evaluation

Prior to the deployment of HSIN NextGen capabilities and services, the contractor shall provide system testing. This testing shall ensure the operation and function of the transformed business process and service validating the integration, system, performance and acceptance of the HSIN NextGen capabilities and services. The contractor shall develop and implement test plans, procedures, and documentation to support the various stages of testing (e.g., unit, integration, system, performance, and acceptance) for all HSIN NextGen increments and interfaces. The contractor shall include usability testing from the initial design stages through user acceptance.

The contractor shall test HSIN 2.X functional requirements, including Information Assurance requirements, a multi-level secure platform, interfaces with existing HSIN services, and DHS standards. The contractor shall deliver the HSIN 2.X system for IV&V and C&A within 8 months of contract award. IOC shall be achieved 12 months after contract award. The contractor shall document test plans and procedures and execute tests to ensure the proper operation, usability, and function of the IOC HSIN 2.X requirements. The contractor shall also perform regression testing to ensure related capabilities are not degraded. The contractor shall document the results of the testing performed.

The contractor shall hold a customer Production Readiness Review (PRR) to obtain Government approval to proceed to production. The contractor shall develop and deliver presentation materials prior to the conduct of the review. The contractor shall prepare minutes that detail the review.

The contractor shall hold a customer Operational Readiness Review to obtain Government approval to site activation. The contractor shall develop and deliver presentation materials prior to the conduct of the review. The contractor shall prepare minutes that detail the review.

4.1.3.5.1 Independent Verification and Validation

The contractor shall develop and execute Spiral 2 verification and validation testing. The Government will have approval authority of the test procedures. The Government will witness a subset of the test execution.

4.1.3.6 Organizational Change and Training

4.1.3.6.1 Organizational Change

Organizational change management is an integral part of the implementation of the HSIN NextGen solution. The contractor shall be an active participant in the identification of organizational change issues (e.g. stakeholder and workforce management, communications and training) and in developing strategies for mitigating the impact and facilitating the adoption of new and reengineered business processes and supporting applications.

The contractor shall include communication mediums and forums that clearly and concisely communicate the anticipated changes; activities that identify and assess areas of organizational resistance; development of tailored strategies and plans to help guide specific stakeholder groups through the transition; and development of plans to mitigate the adverse affects of the proposed changes and promote the benefits of the transformed business process. The contractor shall interview major stakeholders and determine their information resources and needs for the conduct of their mission. The contractor will communicate the potential benefits, timing and training opportunities associated with the HSIN project. The contractor shall document Spiral 2 organization change activities in the HSIN Organizational Change Communication Plan and the results in Stakeholder Assessment Reports.

4.1.3.6.2 Training

The contractor shall design and develop a HSIN NextGen Training Plan. This plan shall define the activities needed to:

- Facilitate transition of the HSIN users to the HSIN 2.X capabilities;
- · Identify organizational change issues;
- Developing strategies for mitigating the impact and facilitating the adoption of new and reengineered business processes and supporting applications;
- Identifying communication mediums and forums that clearly and concisely communicate the anticipated changes;
- Develop tailored strategies and plans to help guide specific stakeholder groups through the transition;
- Develop plans to mitigate the adverse affects of the proposed changes and promote the benefits of the transformed business process;
- · Coordinate of training schedules; and
- Support delivery of training.

The contractor shall prepare training materials to include specific operating techniques for all equipment, completed technical data on all requirements, and equipment required for maintenance and test.

The contractor shall support delivery of training to the users of HSIN 2.X functional requirements prior to, concurrent with, or shortly after site activation.

4.1.3.7 Operational/Site Activation

The contractor shall activate IOC HSIN 2.X functional requirements, including Information Assurance requirements, a multi-level secure platform, and interfaces with existing HSIN services. Fifty percent of the users and data will be transitioned from the current HSIN technology to HSIN NextGen, including HSIN-CS users. Appropriate waves of user and data transitioning will be accomplished. Lessons learned from the transition shall be captured to improve future transitions.

4.1.3.7.1 Installation Plan

The contractor shall develop transition plans to facilitate transition of the HSIN technology to the HSIN NextGen. The contractor shall design, develop and provide an Installation Plan that details overall planning, coordination and site preparations, installation procedures, interconnection with existing systems and conversion of data from legacy systems for Spiral 2. The contractor will update the test environment/platform for checkout of new capabilities, regression testing, and performance analysis.

- 4.1.3.7.1.1 Facilities Management. The contractor shall develop and execute a facilities management program that plans, modifies, installs and supports the development, initial and continued operations and life cycle support activities of the HSIN NextGen.
- 4.1.3.7.1.2 Installation Drawings. The contractor shall design, develop and provide a complete set of detailed Installation Drawings in electronic medium that support installation of HSIN NextGen equipment in facilities designated for HSIN NextGen operations and support and the interconnection with the facility infrastructure and interconnecting systems such as power, cooling, grounding and communications networks.

4.1.4 Spiral 4 – HSIN NextGen FOC

This section provides the base year core activities that support the technical objectives specified by the Statement of Objectives unique to Spiral 4 HSIN NextGen capabilities. FOC shall be accomplished 18 months after contract award.

4.1.4.1 Technical Management

The contractor IPTs shall participate in program planning, planning for an efficient HSIN 2.X to 3.X technology transition, risk identification and mitigation, incorporation of lessons learned from the Spiral 2, and tailoring the development process. The contractor shall comply with the following Homeland Security Enterprise Architecture (HLS EA) requirements:

- All developed solutions and requirements shall be compliant with the HLS EA.
- All IT hardware or software shall be compliant with the HLS EA Technical Reference Model (TRM) Standards and Products Profile.
- All data assets, information exchanges and data standards, whether adopted or developed, shall be submitted to the DHS Enterprise Data Management Office (EDMO) for review and insertion into the DHS Data Reference Model.
- In compliance with OMB mandates, all network hardware shall be IPv6 compatible without modification, upgrade, or replacement.

As appropriate, the contractor will contribute to DHS/OPS Enterprise Architecture and Security governance boards and processes.

The contractor implementations shall comply with the policies and requirements set forth in the DHS Geospatial Information Infrastructure (GII), including the following:

- The DHS geospatial model shall be used building the GII.
- All data within the GII, whether adopted or developed, shall be submitted to the DHS EDMO for review and insertion into the DHS Reference Model.

4.1.4.2 Architecture and System Engineering

The proposed HSIN NextGen architecture solution shall maximize the use of current HSIN services and applications where feasible. HSIN NextGen will provide a robust, flexible, and highly reliable framework for implementation of tools and services based on open, SOA and COTS products and technologies. The HSIN NextGen architecture solution shall be aligned with the DHS and Federal Enterprise Architectures. The contractor's architecture and systems engineering solution shall expedite deployment of capabilities and retirement of appropriate legacy systems, combined with enhanced capabilities in many areas, such as collaboration tools and information sharing. The contractor's proposed architecture and systems engineering solution will include transition strategies and high-level plans for migrating the current HSIN to the HSIN NextGen. The contractor's proposed architecture and systems engineering solution shall include an assessment of the risks and rewards associated with various architecture, engineering and operating decisions.

The contractor shall minimize risk by proposing architecture and systems engineering solutions that utilize services currently available and proven in the commercial marketplace and, in some cases, sold as commercial off-the-shelf and Government off-the-shelf products, services, applications, processes and network capabilities with the goal of reducing development costs and shortening lead times to field new technologies.

The contractor shall develop a system architecture to support the remaining HSIN 3.X functional requirements, including Information Assurance requirements, a multi-level secure platform, and interfaces with existing HSIN services.

The contractor shall update the system requirements in the HSIN NextGen System Specification and system architecture in the HSIN NextGen System Design Document. System requirements shall be allocated to system design components and trace matrix included with System Design Document. The contractor shall update the Interface Requirements Specification for data requirement changes.

The contractor shall hold a customer SRR for Spiral 4. The contractor shall develop and deliver presentation materials prior to the conduct of the review. The contractor shall prepare minutes that detail the review.

4.1.4.3 Analysis, Design, Development and Implementation

The contractor shall facilitate a smooth transition from the current HSIN 2.X capabilities to the HSIN 3.X capabilities. The contractor shall conduct ongoing evaluation, analysis and validation of system requirements to ensure the delivery of anticipated information technology resources, and sensitive information. Planning and implementation of continuous process improvement solutions are included in this activity.

The contractor shall also provide the planning, analysis, design, development, documentation, integration and qualification of this spiral, including developing, documenting, updating and

maintaining interfaces that facilitate integrated data exchange of appropriate data in accordance with guidance provided by the DHS OPS. The contractor shall provide the integration of all built or procured HSIN NextGen capabilities and IT Services. In addition, the contractor shall include the development and execution of a strategy and plan for the decommissioning of the current HSIN as HSIN NextGen is incrementally deployed.

The contractor shall provide ongoing service delivery assessments that result in the validation of required outcomes and performance measures. These may include additional market research, alternative analyses, cost benefit analyses, return on investment studies, as well as validation of operational arrangements for the services required in each increment. The contractor shall assist the government in developing SLAs and QASP with measures that align to the performance goals of the DHS OPS HSIN NextGen.

The contractor shall implement FOC, HSIN 3.X functional requirements. The contractor shall update the Interface Design Document for data definition changes.

The contractor shall document unit and integration test plans and procedures and execute tests to ensure the proper operation and function of the HSIN 3.X functional requirements.

4.1.4.4 Certification and Accreditation

The contractor shall develop, maintain and update the HSIN NextGen C&A package to reflect fielded HSIN NextGen capabilities, architectural changes, and addition of or changes to core services for Spiral 4. The Government will be responsible for completing the C&A activities.

4.1.4.5 System Test and Evaluation

Prior to the deployment of HSIN 3.X capabilities and services, the contractor shall provide system testing. This testing shall ensure the operation and function of the transformed business process and service validating the integration, system, performance and acceptance of the HSIN NextGen capabilities and services. The contractor shall develop and implement test plans, procedures, and documentation to support the various stages of testing (e.g., unit, integration, system, performance, and acceptance) for all HSIN NextGen increments and interfaces. The contractor shall include usability testing from the initial design stages through user acceptance. The contractor shall include support for Government required testing (e.g. user acceptance testing, security test and evaluation, 508 Compliance, IV&V and C&A.)

The contractor shall test Full Operational Capability (FOC) HSIN 3.X functional requirements, including Information Assurance requirements, a multi-level secure platform, and DHS standards.

The contractor shall document test plans and procedures and execute tests to ensure the proper operation, usability, and function of the FOC HSIN 3.X requirements. The contractor shall also perform regression testing to ensure related capabilities are not degraded. The contractor shall document the results of the testing performed.

4.1.4.6 Organizational Change and Training

4.1.4.6.1 Organizational Change

Organizational change management is an integral part of the implementation of the HSIN NextGen solution. The contractor shall be an active participant in the identification of organizational change issues (e.g. stakeholder and workforce management, communications and

training) and in developing strategies for mitigating the impact and facilitating the adoption of new and reengineered business processes and supporting applications.

The contractor shall include communication mediums and forums that clearly and concisely communicate the anticipated changes; activities that identify and assess areas of organizational resistance; development of tailored strategies and plans to help guide specific stakeholder groups through the transition; and development of plans to mitigate the adverse affects of the proposed changes and promote the benefits of the transformed business process. The contractor shall interview major stakeholders and determine their information resources and needs for the conduct of their mission. The contractor will communicate the potential benefits, timing and training opportunities associated with the HSIN project. The contractor shall document Spiral 4 organization change plans in the HSIN Organizational Change Communication Plan.

4.1.4.6.2 Training

The contractor will update the HSIN NextGen Training Plan to facilitate transition of the HSIN NextGen Spiral 2 users to the HSIN NextGen Spiral 4 capabilities, and incorporate HSIN 3.X functional requirements.

The contractor shall prepare training materials to include specific operating techniques for all equipment, completed technical data on all requirements, and equipment required for maintenance and test.

4.1.5 HSIN NextGen Operations and Maintenance (O&M) Support

4.1.5.1 Program Management

The contractor shall update the Transition Plan submitted with the HSIN Proposal. The draft plan will be provided within 3 days after contract award and the final within 15 days after contract award. The contractor shall transition the O&M services for the current HSIN technology, including COP, within 90 days of task order award.

The contractor shall operate and maintain the current HSIN-CS technology and HSIN NextGen IOC, which includes the Common Operating Picture (COP) application and, services, tools, associated Oracle database, and transition of users and data. The O&M support shall provide:

- Personnel, equipment, and materials necessary to provide Help Desk Services
 [excluding GFE provided Help Desk tools: e.g. 866 help desk number, help desk email,
 Remedy Ticketing Solution and CISCO call centers with associated hardware] to include the
 associated hardware and software licenses, their currency and upgrades as required, and all
 other maintenance documentation and support agreements that will enable complete
 Operations & Maintenance (O&M) support at all levels.
- System Monitoring (on-site or remote capability utilizing an approved network performance monitoring tool).
- Capture system and mission performance metrics and provide reporting versus SLA
- Support development of, modification to, and execution of all O&M related SLA
- Support and maintenance of approved interfaces with other systems and subsystems
- Support to Configuration Management Process
- Preventative Maintenance on hardware, software per a defined schedule
- Corrective maintenance as required to include patch management

- System security vulnerability monitoring and proactive management of hardware and software security enhancements
- Support to Certification and Accreditation activities
- Development, test, and release of Engineering Change Requests (ECR)
- Over the phone training support for users and close interaction with Organization Change and Training Team to address user training needs
- Highly trained Surge Staffing (all tiers) in direct support of National Security Special Events and National Level Exercises or incidents that require a coordinated national response (i.e. Presidential elections, TOPOFF-5, Hurricanes etc.).

4.1.5.2 Help Desk Services

The contractor shall maintain a Help Desk providing 24x7x365 services to the HSIN NextGen user community. The contractor shall provide phone based level 1 support for customer requests for service, user training via phone communications, reports of incidents through a Help Desk responsible for end-to-end call and problems management. The contractor shall track and measure average speed to answer.

4.1.5.3 Tier 2 – System Administration

The contractor shall provide Tier 2 - System Administration staff to perform system monitoring, system and application maintenance, new site creation and site modifications and upgrades as captured within the Change Management automated processing tool and approved by the Change Control Board (CCB), problem detection and correction, and backup/recovery. The Tier 2 - System Administration staff will also be responsible for minor bug fixes and patches and conduct system security vulnerability scans.

4.1.5.4 Tier 3 – Infrastructure & Network Services

The contractor shall provide Tier 3 staff to install or integrate requested and approved hardware and software modifications, baseline Engineering Change Packages (ECP) and implement enhancements approved by the HSIN NextGen PMO and HSIN NextGen CCB, and test/implement major patches or fixes that may be required. The Tier 3 staff will also work directly with the Spiral 1, 2 and 4 IPT to assume responsibility for all system functional improvements once these improvements have been approved by DHS and moved to production. Tier 3 staff will also provide system security support to include enhancements, corrections and fixes to ensure the highest level of security across HSIN NextGen.

4.2 Option 1

This section is divided into the major activities of Option 1 year, including Program and Technical Management, Spiral 3, Spiral 4, and Operations & Maintenance.

4.2.1 Program and Technical Management

4.2.1.1 Program Planning and Execution

The contractor will continue program and technical management, risk management, and update plans to incorporate necessary changes including IPT Structure (e.g. removal of Spiral 1 and 2 IPTs), and to incorporate lessons learned from completed Spirals. Plans to be updated include:

• Program Plan

- Integrated Master Plan
- Integrated Master Schedule
- Tailored Development Process
- Master Test and Evaluation Plan
- Software Development Plan
- Quality Assurance Surveillance Plan
- Service Level Agreements

4.2.1.2 Earned Value Management Systems (EVMS)

The contractor shall develop and submit monthly Earned Value reports addressing all applicable tasks under this task order as required by the overarching EAGLE contract, section H.32. The contractor shall submit four (4) hard copies of the required Cost Performance Report (CPR) Formats 1, 3, and 5 and the Contractor Funds Status Report ((CSFR) at the task order level) Earned Value reports to the COTR on a monthly basis by the 15th business day of each month. In addition, the contractor shall submit the Earned Value reports to the COTR via email. The soft copy Earned Value reports shall be transmitted in Microsoft format.

The required Earned Value reports shall include the following:

- CPR Format 1 WBS-oriented cost report: All costs incurred for the applicable tasks under this order shall be organized according to the WBS at a level to be directed by the COTR.
- CPR Format 3 Baseline Report: This format shall provide information on the task order baseline and change tracking. The contractor shall report the following measures: Budgeted Cost of Work Scheduled (BCWS), Actual Cost of Work Performed (ACWP), Budgeted Cost of Work Performed (BCWP – Earned Value), cumulative Cost Performance Index (CPI), and cumulative Schedule Performance Index (SPI). Contractor shall also furnish the cumulative time-based Schedule Performance Index.
- CPR Format 5 Problem Analysis Report/Variance Narrative: This report shall discuss and
 provide explanations for cost and schedule variances that have exceeded threshold. In
 addition, this report shall provide an explanation as to why the variance occurred and
 descriptions on how the contractor plans to resolve the cause of the variance. Contractor shall
 also furnish data monthly on the success for previous corrective actions taken.
- Contract Funds Status Report: This report shall address the current task order funding levels for all task order CLINs.

The Contractor shall use the information in these EVM reports to analyze the effectiveness of the EVMS and both the contract performance and the overall program progress. The Contractor shall take appropriate action based on those findings.

The contractor shall build an event-based Integrated Master Plan (IMP) for the HSIN and HSIN NextGen system that correlates to the Integrated Master Schedule (IMS), CWBS, Performance Work Statement (PWS), EVMS and the contractor's organizational structure. The contractor shall identify, based on the CWBS, a hierarchy of key program Events, Accomplishment, Criteria and supporting efforts that define the HSIN Program. Each program Event, Accomplishment and Criteria shall have specific entrance and exit criteria.

The contractor shall develop and maintain an Integrated Master Schedule (IMS) developed by logically networking detailed program activities. The schedule shall contain the contract IMP

events and milestones, accomplishments, criteria, and activities from contract award to the completion of the contract. The contractor shall ensure schedule integration with its subcontractors and shall verify and ensure the validity of the subcontractors' schedule data, including demonstrating effective methods for incorporating schedule data from subcontractors into the contractor's IMS.

The contractor shall participate in the Integrated Baseline Review within 90 calendar days after Option 1 award. The contractor shall also participate in an IBR within 90 calendar days whenever a major task order modification has been awarded. The objective of the integrated baseline review is for the Government and the contractor to jointly assess areas, such as the Contractor's planning, to ensure complete coverage of the statement of work, logical scheduling of the work activities, resources, and identification of inherent risks.

4.2.1.3 Subcontract Management

The contractor shall update the Subcontract Management Plan for planning and oversight of the HSIN program subcontractors. The subcontract program manager will provide programmatic direction and oversight to the subcontractor.

4.2.1.4 Configuration Management

The contractor shall update the CM Plan. CM personnel will continue to provide technical and administrative direction and surveillance to identify and document the functional and physical characteristics of a configuration item, control changes to those characteristics, record and report change processing and implementation status, audit and verify compliance with specified requirements.

4.2.1.5 Program Quality Assurance

The contractor shall update the Program Quality Plan to identify the appropriate quality assurance activities, methods, and tools for the HSIN NextGen program. The QA personnel will perform the activities in accordance with the Program Quality Plan and QASP:

- Monitor program activities, as described in the QASP,
- Perform work product inspections, including review of deliverables,
- Audit activities and products against their documented processes, specifications, standards, and requirements
- · Witness tests,
- Monitor quality activities of subcontractors,
- Manage the quality of products received from suppliers,
- Ensure that corrective or preventive action taken to eliminate the causes of actual or potential non-conformities is appropriate for scope of the problem and the associated risks,
- · Report the results of quality assurance activities, and
- Assist the Government in quality activity, upon request.

4.2.1.6 Program Reviews

The contractor shall conduct program reviews to assess program status. The contractor shall develop and deliver agendas prior to the conduct of customer program review meetings. Program reviews shall identify program risks and issues supporting course-correction planning. The contractor shall prepare minutes that detail the review.

4.2.1.7 Performance Measures

The contractor shall update and continue support performance measures collection and reporting.

4.2.2 Spiral 3 – HSIN NextGen Maturing Operational Capability (MOC)

This section provides the core activities that support the technical objectives specified by the Statement of Objectives unique to Spiral 3 HSIN NextGen capabilities. Core activities include:

- Program and Technical Management
- Organizational Change and Training

4.2.2.1 Technical Management

The contractor IPTs will participate in program planning, planning for an efficient transition of users and data, risk identification and mitigation, and appropriate tailoring or the development process.

4.2.2.2 Organizational Change and Training

4.2.2.2.1 Organizational Change

Organizational change management is an integral part of the implementation of the HSIN NextGen solution. The contractor shall be an active participant in the identification of organizational change issues (e.g. stakeholder and workforce management, communications and training) and in developing strategies for mitigating the impact and facilitating the adoption of new and reengineered business processes and supporting applications.

The contractor shall include communication mediums and forums that clearly and concisely communicate the anticipated changes; activities that identify and assess areas of organizational resistance; development of tailored strategies and plans to help guide specific stakeholder groups through the transition; and development of plans to mitigate the adverse affects of the proposed changes and promote the benefits of the transformed business process. The contractor shall interview major stakeholders and determine their information resources and needs for the conduct of their mission. The contractor will communicate the potential benefits, timing and training opportunities associated with the HSIN project.

4.2.2.2.2 Training

The contractor shall support delivery of training to the remaining users of HSIN-CS prior to, concurrent with, or shortly after site activation.

4.2.2.3 Operational/Site Activation

The contractor shall develop transition plans to facilitate decommissioning of the current HSIN technology. The contractor shall activate the remaining users and data from the current HSIN technology to the HSIN NextGen 16 months after contract award. The contractor shall decommission the current technology and perform regression testing as appropriate.

4.2.2.4 Decommissioning

The contractor shall transition the remaining users and data from the current HSIN technology to the HSIN NextGen. The contractor shall decommission the current HSIN technology.

4.2.3 Spiral 4 – HSIN NextGen FOC

This section provides the Option 1 year core activities that support the technical objectives specified by the Statement Of Objectives unique to Spiral 4 HSIN NextGen capabilities. Core activities include:

- Program and Technical Management
- Architecture and Systems Engineering of HSIN NextGen
- HSIN NextGen Analysis, Design, Development and Implementation
- Testing
- Deployment
- Organizational Change and Training

4.2.3.1 Technical Management

The contractor IPTs will participate in program planning, planning for an efficient HSIN 2.X to 3.X technology transition, risk identification and mitigation, incorporation of lessons learned from the Spiral 1, and tailoring the development process. The contractor shall comply with the following Homeland Security Enterprise Architecture (HLS EA) requirements:

- All developed solutions and requirements shall be compliant with the HLS EA.
- All IT hardware or software shall be compliant with the HLS EA Technical Reference Model (TRM) Standards and Products Profile.
- All data assets, information exchanges and data standards, whether adopted or developed, shall be submitted to the DHS Enterprise Data Management Office (EDMO) for review and insertion into the DHS Data Reference Model.
- In compliance with OMB mandates, all network hardware shall be Internet Protocol version 6 compatible without modification, upgrade, or replacement.

As appropriate, the contractor will contribute to DHS/OPS Enterprise Architecture and Security governance boards and processes.

4.2.3.2 Architecture and System Engineering

The contractor shall continue development of the system architecture to support the remaining FOC HSIN 3.X functional requirements, including Information Assurance requirements, a multilevel secure platform, and interfaces with existing HSIN services.

The proposed HSIN NextGen architecture solution shall maximize the use of current HSIN services and applications where feasible. HSIN NextGen will provide a robust, flexible, and highly reliable framework for implementation of tools and services based on open, SOA and COTS products and technologies. The HSIN NextGen architecture solution shall be aligned with the DHS and Federal Enterprise Architectures. The contractor's architecture and systems engineering solution shall expedite deployment of capabilities and retirement of appropriate legacy systems, combined with enhanced capabilities in many areas, such as collaboration tools and information sharing. The contractor's proposed architecture and systems engineering solution will include transition strategies and high-level plans for migrating the current HSIN to the HSIN NextGen. The contractor's proposed architecture and systems engineering solution shall include an assessment of the risks and rewards associated with various architecture, engineering and operating decisions.

The contractor shall minimize risk by proposing architecture and systems engineering solutions that utilize services currently available and proven in the commercial marketplace and, in some cases, sold as commercial off-the-shelf and Government off-the-shelf products, services, applications, processes and network capabilities with the goal of reducing development costs and shortening lead times to field new technologies.

The contractor shall update the system requirements in the HSIN NextGen System Specification and system architecture in the HSIN NextGen System Design Document. System requirements shall be allocated to system design components and trace matrix included with System Design Document. The contractor shall update the Interface Requirements Specification for data requirement changes.

4.2.3.3 Analysis, Design, Development and Implementation

The contractor shall facilitate a smooth transition from the current HSIN 2.X capabilities to the HSIN 3.X capabilities and technology. The contractor shall conduct ongoing evaluation, analysis and validation of system requirements to ensure the delivery of anticipated information technology resources, and sensitive information. Planning and implementation of continuous process improvement solutions are included in this activity.

The contractor shall also provide the planning, analysis, design, development, documentation, integration and qualification of this spiral, including developing, documenting, updating and maintaining interfaces that facilitate integrated data exchange of appropriate data in accordance with guidance provided by the DHS OPS. The contractor shall provide the integration of all built or procured HSIN NextGen capabilities and IT Services. In addition, the contractor shall include the development and execution of a strategy and plan for the decommissioning of the current HSIN as HSIN NextGen is incrementally deployed.

The contractor shall provide ongoing service delivery assessments that result in the validation of required outcomes and performance measures. These may include additional market research, alternative analyses, cost benefit analyses, return on investment studies, as well as validation of operational arrangements for the services required in each increment. The contractor shall assist the government in developing SLAs and QASP with measures that align to the performance goals of the DHS OPS HSIN NextGen.

The contractor shall implement FOC, HSIN 3.X functional requirements. The contractor shall update the Interface Design Document for data definition changes.

The contractor shall document unit and integration test plans and procedures and execute tests to ensure the proper operation and function of the HSIN 3.X functional requirements.

The contractor shall develop and deliver presentation materials prior to the conduct of the review. The contractor shall prepare minutes that detail the review.

The contractor shall develop Spiral 4 software Version Description Document describing the software baseline and/or changes that are incorporated in the software release, all of the physical media and documentation associated with the version, applicable security and privacy considerations and license provisions.

4.2.3.4 Certification and Accreditation

The contractor shall develop, maintain and update the C&A package to reflect fielded HSIN NextGen capabilities, architectural changes, and addition of or changes to core services for Spiral 4. The Government will be responsible for completing the C&A activities.

4.2.3.5 System Test and Evaluation

Prior to the deployment of HSIN NextGen capabilities and services, the contractor shall provide system testing. This testing shall ensure the operation and function of the transformed business process and service validating the integration, system, performance and acceptance of the HSIN NextGen capabilities and services. The contractor shall develop and implement test plans, procedures, and documentation to support the various stages of testing (e.g., unit, integration, system, performance, and acceptance) for all HSIN NextGen increments and interfaces. The contractor shall include usability testing from the initial design stages through user acceptance. The contractor shall include support for Government required testing (e.g. user acceptance testing, security test and evaluation, 508 Compliance, IV&V and C&A.)

The contractor shall test FOC HSIN 3.X functional requirements, including Information Assurance requirements, a multi-level secure platform, and DHS standards. FOC shall be achieved 18 months after contract award.

The contractor shall document test plans and procedures and execute tests to ensure the proper operation, usability, and function of the FOC HSIN 3.X requirements. The contractor shall also perform regression testing to ensure related capabilities are not degraded. The contractor shall document the results of the testing performed.

The contractor shall hold a customer Production Readiness Review to obtain Government approval to proceed to production. The contractor shall develop and deliver presentation materials prior to the conduct of the review. The contractor shall prepare minutes that detail the review.

The contractor shall hold a customer Operational Readiness Review to obtain Government approval to site activation. The contractor shall develop and deliver presentation materials prior to the conduct of the review. The contractor shall prepare minutes that detail the review.

4.2.3.5.1 Independent Verification and Validation

The contractor shall develop and execute Spiral 4 verification and validation testing. The Government will have approval authority of the test procedures. The Government will witness a subset of the test execution.

4.2.3.6 Organizational Change and Training

4.2.3.6.1 Organizational Change

Organizational change management is an integral part of the implementation of the HSIN NextGen solution. The contractor shall be an active participant in the identification of organizational change issues (e.g. stakeholder and workforce management, communications and training) and in developing strategies for mitigating the impact and facilitating the adoption of new and reengineered business processes and supporting applications.

The contractor shall include communication mediums and forums that clearly and concisely communicate the anticipated changes; activities that identify and assess areas of organizational

resistance; development of tailored strategies and plans to help guide specific stakeholder groups through the transition; and development of plans to mitigate the adverse affects of the proposed changes and promote the benefits of the transformed business process. The contractor shall interview major stakeholders and determine their information resources and needs for the conduct of their mission. The contractor will communicate the potential benefits, timing and training opportunities associated with the HSIN project. The contractor shall document Spiral 4 organization change activities in the HSIN Organizational Change Communication Plan and the results in Stakeholder Assessment Reports.

4.2.3.6.2 Training

The contractor will update the HSIN NextGen Training Plan to facilitate transition of the HSIN 2.X users to the HSIN 3.X capabilities.

The contractor shall prepare training materials. Training materials shall contain specific operating techniques for all equipment, completed technical data on all requirements, and equipment required for maintenance and test.

The contractor shall support delivery of training to the users of HSIN NextGen functional requirements 3.X prior to, concurrent with, or shortly after site activation.

4.2.3.7 Operational/Site Activation

The contractor shall activate FOC, HSIN 3.X functional requirements 18 months after contract award.

4.2.3.7.1 Installation Plan

The contractor shall develop transition plans to facilitate transition of the HSIN NextGen Spiral 2 technology to the HSIN NextGen Spiral 4 technology. The contractor shall design, develop and provide an Installation Plan that details overall planning, coordination and site preparations, installation procedures, interconnection with existing systems and conversion of data from legacy systems for Spiral 4. The contractor will update the test environment/platform for checkout of new capabilities, regression testing, and performance analysis.

- 4.2.3.7.1.1 Facilities Management. The contractor shall update the facilities management program that plans, modifies, installs and supports the development, initial and continued operations and life cycle support activities of the HSIN NextGen.
- 4.2.3.7.1.2 Installation Drawings. The contractor shall design, develop and provide a complete set of detailed Installation Drawings in electronic medium that support installation of HSIN NextGen equipment in facilities designated for HSIN NextGen operations and support and the interconnection with the facility infrastructure and interconnecting systems such as power, cooling, grounding and communications networks.

4.2.4 HSIN NextGen O&M Support

4.2.4.1 Program Management

The contractor shall operate and maintain the current HSIN technology, through MOC; and HSIN NextGen IOC (FRD 2.X) / MOC / FOC (FRD 3.X); which includes the Common Operating Picture (COP) application and, services, tools, associated Oracle database and transition of users and data. The O&M support shall provide:

• Personnel, equipment, and materials necessary to provide Help Desk Services

[excluding GFE provided Help Desk tools: e.g. 866 help desk number, help desk email, Remedy Ticketing Solution and CISCO call centers with associated hardware] to include the associated hardware and software licenses, their currency and upgrades as required, and all other maintenance documentation and support agreements that will enable complete Operations & Maintenance (O&M) support at all levels.

- System Monitoring (on-site or remote capability utilizing an approved network performance monitoring tool)
- Capture system and mission performance metrics and provide reporting versus SLA
- Support development of, modification to, and execution of all O&M related SLA
- Support and maintenance of approved interfaces with other systems and subsystems
- Support to Configuration Management Process
- Preventative Maintenance on hardware, software per a defined schedule
- Corrective maintenance as required to include patch management
- System security vulnerability monitoring and proactive management of hardware and software security enhancements
- Support to C&A activities
- Development, test, and release of Engineering Change Requests (ECR)
- Over the phone training support for users and close interaction with Organization Change and Training Team to address user training needs
- Highly trained Surge Staffing (all tiers) in direct support of National Security Special Events and National Level Exercises or incidents that require a coordinated national response (i.e. Presidential elections, TOPOFF-5, Hurricanes etc.).

4.2.4.2 Help Desk Services

The contractor shall maintain a Help Desk providing 24x7x365 services to the HSIN NextGen user community. The contractor shall provide phone based level 1 support for customer requests for service, user training via phone communications, reports of incidents through a Help Desk responsible for end-to-end call and problems management. The contractor shall track and measure average speed to answer.

4.2.4.3 Tier 2 - System Administration

The contractor shall provide Tier 2 - System Administration staff to perform system monitoring, system and application maintenance, new site creation and site modifications and upgrades as captured within the Change Management automated processing tool and approved by the Change Control Board (CCB), problem detection and correction, and backup/recovery. The Tier 2 - System Administration staff will also be responsible for minor bug fixes and patches and conduct system security vulnerability scans.

4.2.4.4 Tier 3 – Infrastructure & Network Services

The contractor shall provide Tier 3 staff to install or integrate requested and approved hardware and software modifications, baseline Engineering Change Packages (ECP) and implement enhancements approved by the HSIN NextGen PMO and HSIN NextGen CCB, and test/implement major patches or fixes that may be required. The Tier 3 staff will also work directly with the Spiral 1, 2 and 4 IPT to assume responsibility for all system functional

improvements once these improvements have been approved by DHS and moved to production. Tier 3 staff will also provide system security support to include enhancements, corrections and fixes to ensure the highest level of security across HSIN NextGen.

4.3 **Option 2**

This section is divided into the major activities of Option 2 year, including Program and Technical Management and Operations & Maintenance.

4.3.1 Program and Technical Management

This section provides the Option 2 year Program and Technical Management activities that support the technical objectives specified by the SOO.

4.3.1.1 Program Planning and Execution

The contractor will continue program and technical management, risk management, and update plans to incorporate necessary changes including IPT Structure, and to incorporate lessons learned from completed Spirals. Plans to be updated include:

- Program Plan
- Integrated Master Plan
- Integrated Master Schedule
- Tailored Development Process
- Master Test and Evaluation Plan
- Software Development Plan
- Quality Assurance Surveillance Plan
- Service Level Agreements

4.3.1.2 Earned Value Management Systems (EVMS)

The contractor shall develop and submit monthly Earned Value reports addressing all applicable tasks under this task order as required by the overarching EAGLE contract, section H.32. The contractor shall submit four (4) hard copies of the required Cost Performance Report (CPR) Formats 1, 3, and 5 and the Contractor Funds Status Report ((CSFR) at the task order level) Earned Value reports to the COTR on a monthly basis by the 15th business day of each month. In addition, the contractor shall submit the Earned Value reports to the COTR via email. The soft copy Earned Value reports must be transmitted in Microsoft format.

The required Earned Value reports shall include the following:

- CPR Format 1 WBS-oriented cost report: All costs incurred for the applicable tasks under this order shall be organized according to the WBS at a level to be directed by the COTR.
- CPR Format 3 Baseline Report: This format shall provide information on the task order baseline and change tracking. The contractor shall report the following measures: Budgeted Cost of Work Scheduled (BCWS), Actual Cost of Work Performed (ACWP), Budgeted Cost of Work Performed (BCWP - Earned Value), cumulative Cost Performance Index (CPI), and cumulative Schedule Performance Index (SPI). Contractor shall also furnish the cumulative time-based Schedule Performance Index.
- CPR Format 5 Problem Analysis Report/Variance Narrative: This report shall discuss and provide explanations for cost and schedule variances that have exceeded threshold. In addition, this report shall provide an explanation as to why the variance occurred and

descriptions on how the contractor plans to resolve the cause of the variance. Contractor shall also furnish data monthly on the success for previous corrective actions taken.

• Contract Funds Status Report: This report shall address the current task order funding levels for all task order CLINs.

The Contractor shall use the information in these EVM reports to analyze the effectiveness of the EVMS and both the contract performance and the overall program progress. The Contractor shall take appropriate action based on those findings.

The contractor shall build an event-based Integrated Master Plan (IMP) for the HSIN and HSIN NextGen system that correlates to the Integrated Master Schedule (IMS), CWBS, Performance Work Statement (PWS), EVMS and the contractor's organizational structure. The contractor shall identify, based on the CWBS, a hierarchy of key program Events, Accomplishment, Criteria and supporting efforts that define the HSIN Program. Each program Event, Accomplishment and Criteria shall have specific entrance and exit criteria.

The contractor shall develop and maintain an Integrated Master Schedule (IMS) developed by logically networking detailed program activities. The schedule shall contain the contract IMP events and milestones, accomplishments, criteria, and activities from contract award to the completion of the contract. The contractor shall ensure schedule integration with its subcontractors and shall verify and ensure the validity of the subcontractors' schedule data, including demonstrating effective methods for incorporating schedule data from subcontractors into the contractor's IMS.

The contractor shall participate in the Integrated Baseline Review within 90 calendar days after Option 2 award. The contractor shall also participate in an IBR within 90 calendar days whenever a major task order modification has been awarded. The objective of the integrated baseline review is for the Government and the contractor to jointly assess areas, such as the Contractor's planning, to ensure complete coverage of the statement of work, logical scheduling of the work activities, resources, and identification of inherent risks.

4.3.1.3 Subcontract Management

The contractor shall update the Subcontract Management Plan for planning and oversight of the HSIN program subcontractors. The subcontract program manager will provide programmatic direction and oversight to the subcontractor.

4.3.1.4 Configuration Management

The contractor shall update the Configuration Management Plan (CMP). The contractor shall update the Data Management Plan. Configuration Management personnel will provide technical and administrative direction and surveillance to identify and document the functional and physical characteristics of a configuration item, control changes to those characteristics, record and report change processing and implementation status, audit and verify compliance with specified requirements.

4.3.1.5 Program Quality Assurance

The contractor shall update the Program Quality Plan to identify the appropriate quality assurance activities, methods, and tools for the HSIN NextGen program. The Quality Assurance personnel will perform the activities in accordance with the Program Quality Plan and QASP:

- Monitor program activities, as described in the QASP,
- Perform work product inspections, including review of deliverables,
- Audit activities and products against their documented processes, specifications, standards, and requirements,
- Witness tests,
- Monitor quality activities of subcontractors,
- Manage the quality of products received from suppliers,
- Ensure that corrective or preventive action taken to eliminate the causes of actual or potential non-conformities is appropriate for scope of the problem and the associated risks,
- Report the results of quality assurance activities, and
- Assist the Government in quality activity, upon request.

4.3.1.6 Program Reviews

The contractor shall conduct program reviews to assess program status. The contractor shall develop and deliver agendas prior to the conduct of customer program review meetings. Program reviews shall identify program risks and issues supporting course-correction planning. The contractor shall prepare minutes that detail the review.

4.3.1.7 Performance Measures

The contractor shall update and continue support performance measures collection and reporting.

4.3.2 HSIN NextGen O&M Support

4.3.2.1 Program Management

The contractor shall operate and maintain HSIN NextGen, which includes the Common Operating Picture (COP) application and, services, tools and associated Oracle database. The O&M support shall provide:

- Personnel, equipment, and materials necessary to provide Help Desk Services
 [excluding GFE provided Help Desk tools: e.g. 866 help desk number, help desk email,
 Remedy Ticketing Solution and CISCO call centers with associated hardware] to include the
 associated hardware and software licenses, their currency and upgrades as required, and all
 other maintenance documentation and support agreements that will enable complete
 Operations & Maintenance (O&M) support at all levels.
- System Monitoring (on-site or remote capability utilizing an approved network performance monitoring tool).
- Capture system and mission performance metrics and provide reporting versus SLA
- Support development of, modification to, and execution of all O&M related SLA
- Support and maintenance of approved interfaces with other systems and subsystems
- Support to Configuration Management Process
- Preventative Maintenance on hardware, software per a defined schedule
- Corrective maintenance as required to include patch management
- System security vulnerability monitoring and proactive management of hardware and software security enhancements
- Support to Certification and Accreditation activities

- Development, test, and release of Engineering Change Requests (ECR)
- Over the phone training support for users and close interaction with Organization Change and Training Team to address user training needs
- Highly trained Surge Staffing (all tiers) in direct support of National Security Special Events and National Level Exercises or incidents that require a coordinated national response (i.e. Presidential elections, TOPOFF-5, Hurricanes etc.).

4.3.2.2 Help Desk Services

The contractor shall maintain a Help Desk providing 24x7x365 services to the HSIN NextGen user community. The contractor shall provide phone based level 1 support for customer requests for service, user training via phone communications, reports of incidents through a Help Desk responsible for end-to-end call and problems management. The contractor shall track and measure average speed to answer.

4.3.2.3 Tier 2 – System Administration

The contractor shall provide Tier 2 - System Administration staff to perform system monitoring, system and application maintenance, new site creation and site modifications and upgrades as captured within the Change Management automated processing tool and approved by the Change Control Board (CCB), problem detection and correction, and backup/recovery. The Tier 2 - System Administration staff will also be responsible for minor bug fixes and patches and conduct system security vulnerability scans.

4.3.2.4 Tier 3 – Infrastructure & Network Services

The contractor shall provide Tier 3 staff to install or integrate requested and approved hardware and software modifications, baseline Engineering Change Packages (ECP) and implement enhancements approved by the HSIN NextGen PMO and HSIN NextGen CCB, and test/implement major patches or fixes that may be required. The Tier 3 staff will also work directly with the Spiral 1, 2 and 4 IPT to assume responsibility for all system functional improvements once these improvements have been approved by DHS and moved to production. Tier 3 staff will also provide system security support to include enhancements, corrections and fixes to ensure the highest level of security across HSIN NextGen.

4.4 **Option 3**

This section is divided into the major activities of Option 3 year, including Program and Technical Management and Operations & Maintenance.

4.4.1 Program and Technical Management

This section provides the Option 3 year Program and Technical Management activities that support the technical objectives specified by the Statement Of Objectives.

4.4.1.1 Program Planning and Execution

The contractor shall perform program planning and management to support DHS objectives of the HSIN NextGen. The contractor shall update plans for Option 3 and incorporate lessons learned from completed Spirals. Plans to be updated include:

- Program Plan
- Integrated Master Plan
- Integrated Master Schedule
- Tailored Development Process

- Master Test and Evaluation Plan
- Software Development Plan
- Quality Assurance Surveillance Plan
- Service Level Agreements

4.4.1.2 Earned Value Management Systems (EVMS)

The contractor shall develop and submit monthly Earned Value reports addressing all applicable tasks under this task order as required by the overarching EAGLE contract, section H.32. The contractor shall submit four (4) hard copies of the required Cost Performance Report (CPR) Formats 1, 3, and 5 and the Contractor Funds Status Report ((CSFR) at the task order level) Earned Value reports to the COTR on a monthly basis by the 15th business day of each month. In addition, the contractor shall submit the Earned Value reports to the COTR via email. The soft copy Earned Value reports must be transmitted in Microsoft format.

The required Earned Value reports shall include the following:

- CPR Format 1 WBS-oriented cost report: All costs incurred for the applicable tasks under this order shall be organized according to the WBS at a level to be directed by the COTR.
- CPR Format 3 Baseline Report: This format shall provide information on the task order baseline and change tracking. The contractor shall report the following measures: Budgeted Cost of Work Scheduled (BCWS), Actual Cost of Work Performed (ACWP), Budgeted Cost of Work Performed (BCWP Earned Value), cumulative Cost Performance Index (CPI), and cumulative Schedule Performance Index (SPI). Contractor shall also furnish the cumulative time-based Schedule Performance Index.
- CPR Format 5 Problem Analysis Report/Variance Narrative: This report shall discuss and
 provide explanations for cost and schedule variances that have exceeded threshold. In
 addition, this report shall provide an explanation as to why the variance occurred and
 descriptions on how the contractor plans to resolve the cause of the variance. Contractor shall
 also furnish data monthly on the success for previous corrective actions taken.
- Contract Funds Status Report: This report shall address the current task order funding levels for all task order CLINs.

The Contractor shall use the information in these EVM reports to analyze the effectiveness of the EVMS and both the contract performance and the overall program progress. The Contractor shall take appropriate action based on those findings.

The contractor shall build an event-based Integrated Master Plan (IMP) for the HSIN and HSIN NextGen system that correlates to the Integrated Master Schedule (IMS), CWBS, Performance Work Statement (PWS), EVMS and the contractor's organizational structure. The contractor shall identify, based on the CWBS, a hierarchy of key program Events, Accomplishment, Criteria and supporting efforts that define the HSIN Program. Each program Event, Accomplishment and Criteria shall have specific entrance and exit criteria.

The contractor shall develop and maintain an Integrated Master Schedule (IMS) developed by logically networking detailed program activities. The schedule shall contain the contract IMP events and milestones, accomplishments, criteria, and activities from contract award to the completion of the contract. The contractor shall ensure schedule integration with its subcontractors and shall verify and ensure the validity of the subcontractors' schedule data,

including demonstrating effective methods for incorporating schedule data from subcontractors into the contractor's IMS.

The contractor shall participate in the Integrated Baseline Review within 90 calendar days after Option 3 award. The contractor shall also participate in an IBR within 90 calendar days whenever a major task order modification has been awarded. The objective of the integrated baseline review is for the Government and the contractor to jointly assess areas, such as the Contractor's planning, to ensure complete coverage of the statement of work, logical scheduling of the work activities, resources, and identification of inherent risks.

4.4.1.3 Subcontract Management

The contractor shall update the Subcontract Management Plan for planning and oversight of the HSIN program subcontractors. The subcontract program manager will provide programmatic direction and oversight to the subcontractor.

4.4.1.4 Configuration Management

The contractor shall update the Configuration Management Plan (CMP). The contractor shall update the Data Management Plan. Configuration Management personnel will provide technical and administrative direction and surveillance to identify and document the functional and physical characteristics of a configuration item, control changes to those characteristics, record and report change processing and implementation status, audit and verify compliance with specified requirements.

4.4.1.5 Program Quality Assurance

The contractor shall update the Program Quality Plan to identify the appropriate quality assurance activities, methods, and tools for the HSIN NextGen program. The Quality Assurance personnel will perform the activities in accordance with the Program Quality Plan and QASP:

- Monitor program activities, as described in the QASP,
- Perform work product inspections, including review of deliverables,
- Audit activities and products against their documented processes, specifications, standards, and requirements,
- Witness tests,
- Monitor quality activities of subcontractors,
- Manage the quality of products received from suppliers,
- Ensure that corrective or preventive action taken to eliminate the causes of actual or potential non-conformities is appropriate for scope of the problem and the associated risks,
- Report the results of quality assurance activities, and
- Assist the Government in quality activity, upon request.

4.4.1.6 Program Reviews

The contractor shall conduct program reviews to assess program status. The contractor shall develop and deliver agendas prior to the conduct of customer program review meetings. Program reviews shall identify program risks and issues supporting course-correction planning. The contractor shall prepare minutes that detail the review.

4.4.1.7 Performance Measures

The contractor shall update and continue support performance measures collection and reporting.

4.4.2 HSIN NextGen O&M Support

4.4.2.1 Program Management

The contractor shall operate and maintain HSIN NextGen, which includes the Common Operating Picture (COP) application and, services, tools and associated Oracle database. The O&M support shall provide:

- Personnel, equipment, and materials necessary to provide Help Desk Services
 [excluding GFE provided Help Desk tools: e.g. 866 help desk number, help desk email,
 Remedy Ticketing Solution and CISCO call centers with associated hardware] to include the
 associated hardware and software licenses, their currency and upgrades as required, and all
 other maintenance documentation and support agreements that will enable complete
 Operations & Maintenance (O&M) support at all levels
- System Monitoring (on-site or remote capability utilizing an approved network performance monitoring tool)
- Capture system and mission performance metrics and provide reporting versus SLA
- Support development of, modification to, and execution of all O&M related SLA
- Support and maintenance of approved interfaces with other systems and subsystems
- Support to Configuration Management Process
- Preventative Maintenance on hardware, software per a defined schedule
- Corrective maintenance as required to include patch management
- System security vulnerability monitoring and proactive management of hardware and software security enhancements
- Support to Certification and Accreditation activities
- Development, test, and release of Engineering Change Requests (ECR)
- Over the phone training support for users and close interaction with Organization Change and Training Team to address user training needs
- Highly trained Surge Staffing (all tiers) in direct support of National Security Special Events and National Level Exercises or incidents that require a coordinated national response (i.e. Presidential elections, TOPOFF-5, Hurricanes etc.).

4.4.2.2 Help Desk Services

The contractor shall maintain a Help Desk providing 24x7x365 services to the HSIN NextGen user community. The contractor shall provide phone based level 1 support for customer requests for service, user training via phone communications, reports of incidents through a Help Desk responsible for end-to-end call and problems management. The contractor shall track and measure average speed to answer.

4.4.2.3 Tier 2 - System Administration

The contractor shall provide Tier 2 - System Administration staff to perform system monitoring, system and application maintenance, new site creation and site modifications and upgrades as captured within the Change Management automated processing tool and approved by the Change

Control Board (CCB), problem detection and correction, and backup/recovery. The Tier 2 - System Administration staff will also be responsible for minor bug fixes and patches and conduct system security vulnerability scans.

4.4.2.4 Tier 3 – Infrastructure & Network Services

The contractor shall provide Tier 3 staff to install or integrate requested and approved hardware and software modifications, baseline Engineering Change Packages (ECP) and implement enhancements approved by the HSIN NextGen PMO and HSIN NextGen CCB, and test/implement major patches or fixes that may be required. The Tier 3 staff will also work directly with the Spiral 1, 2 and 4 IPT to assume responsibility for all system functional improvements once these improvements have been approved by DHS and moved to production. Tier 3 staff will also provide system security support to include enhancements, corrections and fixes to ensure the highest level of security across HSIN NextGen.

4.5 Option 4

This section is divided into the major activities of Option 4 year, including Program and Technical Management and Operations & Maintenance.

4.5.1 Program and Technical Management

This section provides the Option 4 year Program and Technical Management activities that support the technical objectives specified by the Statement Of Objectives.

4.5.1.1 Program Planning and Execution

The contractor shall perform program planning and management to support DHS objectives of the HSIN NextGen. The contractor shall update plans for Option 4 and incorporate lessons learned from completed Spirals. Plans to be updated include:

- Program Plan
- Integrated Master Plan
- Integrated Master Schedule
- Tailored Development Process
- Master Test and Evaluation Plan
- Software Development Plan
- Quality Assurance Surveillance Plan
- Service Level Agreements

4.5.1.2 Earned Value Management Systems (EVMS)

The contractor shall develop and submit monthly Earned Value reports addressing all applicable tasks under this task order as required by the overarching EAGLE contract, section H.32. The contractor shall submit four (4) hard copies of the required Cost Performance Report (CPR) Formats 1, 3, and 5 and the Contractor Funds Status Report ((CSFR) at the task order level) Earned Value reports to the COTR on a monthly basis by the 15th business day of each month. In addition, the contractor shall submit the Earned Value reports to the COTR via email. The soft copy Earned Value reports must be transmitted in Microsoft format.

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• CPR Format 1 - WBS-oriented cost report: All costs incurred for the applicable tasks under this order shall be organized according to the WBS at a level to be directed by the COTR.

- CPR Format 3 Baseline Report: This format shall provide information on the task order baseline and change tracking. The contractor shall report the following measures: Budgeted Cost of Work Scheduled (BCWS), Actual Cost of Work Performed (ACWP), Budgeted Cost of Work Performed (BCWP - Earned Value), cumulative Cost Performance Index (CPI), and cumulative Schedule Performance Index (SPI). Contractor shall also furnish the cumulative time-based Schedule Performance Index.
- CPR Format 5 Problem Analysis Report/Variance Narrative: This report shall discuss and provide explanations for cost and schedule variances that have exceeded threshold. In addition, this report shall provide an explanation as to why the variance occurred and descriptions on how the contractor plans to resolve the cause of the variance. Contractor shall also furnish data monthly on the success for previous corrective actions taken.
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The contractor shall develop and maintain an Integrated Master Schedule (IMS) developed by logically networking detailed program activities. The schedule shall contain the contract IMP events and milestones, accomplishments, criteria, and activities from contract award to the completion of the contract. The contractor shall ensure schedule integration with its subcontractors and shall verify and ensure the validity of the subcontractors' schedule data, including demonstrating effective methods for incorporating schedule data from subcontractors into the contractor's IMS.

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and administrative direction and surveillance to identify and document the functional and physical characteristics of a configuration item, control changes to those characteristics, record and report change processing and implementation status, audit and verify compliance with specified requirements.

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- Monitor program activities, as described in the QASP,
- Perform work product inspections, including review of deliverables,
- Audit activities and products against their documented processes, specifications, standards, and requirements
- Witness tests,
- Monitor quality activities of subcontractors,
- Manage the quality of products received from suppliers,
- Ensure that corrective or preventive action taken to eliminate the causes of actual or potential non-conformities is appropriate for scope of the problem and the associated risks,
- Report the results of quality assurance activities, and

Assist the Government in quality activity, upon request.

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The contractor shall conduct program reviews to assess program status. The contractor shall develop and deliver agendas prior to the conduct of customer program review meetings. Program reviews shall identify program risks and issues supporting course-correction planning. The contractor shall prepare minutes that detail the review.

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4.5.2 HSIN NextGen O&M Support

4.5.2.1 Program Management

The contractor shall operate and maintain HSIN NextGen, which includes the Common Operating Picture (COP) application and, services, tools and associated Oracle database. The O&M support shall provide:

- Personnel, equipment, and materials necessary to provide Help Desk Services [excluding GFE provided Help Desk tools: e.g. 866 help desk number, help desk email, Remedy Ticketing Solution and CISCO call centers with associated hardware] to include the associated hardware and software licenses, their currency and upgrades as required, and all other maintenance documentation and support agreements that will enable complete Operations & Maintenance (O&M) support at all levels.
- System Monitoring (on-site or remote capability utilizing an approved network performance monitoring tool).
- Capture system and mission performance metrics and provide reporting versus SLA

- Support development of, modification to, and execution of all O&M related SLA
- Support and maintenance of approved interfaces with other systems and subsystems
- Support to Configuration Management Process
- Preventative Maintenance on hardware, software per a defined schedule
- Corrective maintenance as required to include patch management
- System security vulnerability monitoring and proactive management of hardware and software security enhancements
- Support to Certification and Accreditation activities
- Development, test, and release of Engineering Change Requests (ECR)
- Over the phone training support for users and close interaction with Organization Change and Training Team to address user training needs
- Highly trained Surge Staffing (all tiers) in direct support of National Security Special Events and National Level Exercises or incidents that require a coordinated national response (i.e. Presidential elections, TOPOFF-5, Hurricanes etc.).

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The contractor shall maintain a Help Desk providing 24x7x365 services to the HSIN NextGen user community. The contractor shall provide phone based level 1 support for customer requests for service, user training via phone communications, reports of incidents through a Help Desk responsible for end-to-end call and problems management. The contractor shall track and measure average speed to answer.

4.5.2.3 Tier 2 – System Administration

The contractor shall provide Tier 2 - System Administration staff to perform system monitoring, system and application maintenance, new site creation and site modifications and upgrades as captured within the Change Management automated processing tool and approved by the Change Control Board (CCB), problem detection and correction, and backup/recovery. The Tier 2 - System Administration staff will also be responsible for minor bug fixes and patches and conduct system security vulnerability scans.

4.5.2.4 Tier 3 – Infrastructure & Network Services

The contractor shall provide Tier 3 staff to install or integrate requested and approved hardware and software modifications, baseline Engineering Change Packages (ECP) and implement enhancements approved by the HSIN NextGen PMO and HSIN NextGen CCB, and test/implement major patches or fixes that may be required. The Tier 3 staff will also work directly with the Spiral 1, 2 and 4 IPT to assume responsibility for all system functional improvements once these improvements have been approved by DHS and moved to production. Tier 3 staff will also provide system security support to include enhancements, corrections and fixes to ensure the highest level of security across HSIN NextGen.

5.0 PERFORMANCE STANDARDS

Section 13 of this PWS contains the detailed performance standards associated with the activities defined as performance requirements in the previous section. In addition, Section 14 provides a cross reference from this document (PWS) to the Statement Of Objectives, Functional Requirements, and the Contract Work Breakdown Structure.

6.0 INCENTIVES

There are currently no defined incentives for this program.

7.0 DELIVERABLES AND DELIVERY SCHEDULE

The following table lists outputs from the performance identified in this document. Also identified is a reference to the PWS paragraph and the date of submission. The contractor shall provide electronic copies of each deliverable. Electronic copies shall be delivered via email attachment or other media by mutual agreement of the Government and Contractor. The electronic copies shall be compatible with MS Office 2003 or other applications as appropriate and mutually agreed to by the Government and Contractor. The contractor shall use best commercial practice for formatting deliverables under this contract. All of the Government's comments on deliverables shall be incorporated in the succeeding version or the contractor shall demonstrate to the Government's satisfaction why such comments should not be incorporated.

	DELIVERABLE AND MI	LESTONE SCHEDU	ile Propinsi
CDRL	Title	PWS Reference	Date of Submission
0001	Spiral 1 – HSIN-CS	4.1.2	30 days after contract award
0002	Spiral 2 – HSIN NextGen Requirements 2.X IV&V Delivery	4.1.3	240 days after contract award (8 months)
0003	Spiral 2 – HSIN NextGen Requirements 2.X IOC	4.1.3	365 days after contract award (12 months)
0004	Spiral 3 – HSIN NextGen Requirements 2.X MOC	4.2.2	480 days after contract award (16 months)
0005	Spiral 4 – HSIN NextGen Requirements 3.X FOC	4.1.4, 4.2.3	540 days after contract award (18 months)
0006	Integrated Baseline Reviews (IBRs)	4.1.1.2, 4.2.1.2, 4.3.1.2, 4.4.1.2, 4.5.1.2	90 days after contract award
0007	Earned Value Reports	4.1.1.2, 4.2.1.2, 4.3.1.2, 4.4.1.2, 4.5.1.2	Monthly, after PMB established
8000	IT Security Plan	4.1.1.1.4	30 days after contract award
0009	IT Security Accreditation	4.1.1.1.4	180 days after contract award (6 months)
0010	Contractor Personnel – Background Investigation	11.0	30 days before the start date of the contract or 30 days prior to entry on duty
0011	Contractor Personnel – Terminations/Resignations	. 11.0	5 days after occurrence
0012	Program Plan	4.1.1.1.1	IAW IMS

C DRL	DELIVERABLE AND MI	Carrier and a company of the company	
v. 60 - 1 - 20 - 10 - 10 - 10 - 10 - 10 - 10		PWS Reference	Date of Submission
0013	Integrated Master Plan (IMP)	4.1.1.2, 4.2.1.2,	At IBR
		4.3.1.2, 4.4.1.2,	
	The second secon	4.5.1.2	
0014	Integrated Master Schedule (IMS)	4.1.1.2, 4.2.1.2,	At IBR
		4.3.1.2, 4.4.1.2,	
		4.5.1.2	
0015	Subcontractor Management Plan	4.1.1.3, 4.2.1.3,	IAW IMS
		4.3.1.3, 4.4.1.3,	
		4.5.1.3	
0016	Configuration Management Plan	4.1.1.4, 4.2.1.4,	IAW IMS
		4.3.1.4, 4.4.1.4,	To the state of th
alik A Milital a Louis Ballania (Aliana)		4.5.1.4	
0017	Program Quality Plan	4.1.1.5, 4.2.1.5,	IAW IMS
		4.3.1.5, 4.4.1.5,	
manda a a salah da salah s		4.5.1.5	MANAGAMAN (S. S. S
0018	Quality Assurance Surveillance Plan	4.1.1.1.7	IAW IMS, jointly developed with DHS input
0019	Master Test and Evaluation Plan	4.1.1.1.5	IAW IMS
0020	Software Development Plan	4.1.1.1.6	IAW IMS
0021	Transition Plan Draft	4.1.5.1	3 days after contract award
0021	Transition Plan Final	4.1.5.1	15 days after contract award
0022	Program Review Agenda, Contents, and	4.1.1.6, 4.2.1.6,	IAW IMS
0023	Minutes	4.3.1.6, 4.4.1.6,	IAW IIVIS
	Minutes .	4.5.1.6	
0024	TICINI New Con Continue Consideration	4.1.3.2, 4.2.3.2	IAW IMS
- of non-service, management and compared to the	HSIN NextGen System Specification		the management of the second s
0025	HSIN NextGen System Design Document	4.1.3.2, 4.2.3.2	IAW IMS
0026	HSIN NextGen Interface Requirement Specification	4.1.3.2, 4.2.3.2	IAW IMS
0027	HSIN NextGen Interface Design Document	4.1.3.3, 4.2.3.3	IAW IMS
0028	Technical Review Agenda, Contents, and	4.1.2.5, 4.1.3.2,	IAW IMS
	Minutes	4.1.3.3, 4.1.3.5,	
		4.1.4.2, 4.2.3.3,	And the second s
		4.2.3.5	
0029	Installation Plans	4.1.2.7.1, 4.1.3.7.1,	IAW IMS
	·	4.2.3.7.1	
0030	Installation Drawings	4.1.2.7.1.2,	IAW IMS
	- J	4.1.3.7.1.2,	
		4.2.3.7.1.2	
0031	Training Plan	4.1.2.6.2, 4.1.3.6.2,	IAW IMS
	Ĭ	4.1.4.6.2, 4.2.3.6.2	
0032	Training Materials	4.1.2.6.2, 4.1.3.6.2,	IAW IMS
		4.1.4.6.2, 4.2.2.2.1,	
		4.2.3.6.2	
0033	Organizational Change Communication Plan	4.1.2.6.1, 4.1.3.6.1,	IAW IMS
	Burning Criming Collins and I was	4.1.4.6.1, 4.2.2.2.1,	
		4.2.3.6.1	
0034	Stakeholder Assessment Reports	4.1.2.6.1, 4.1.3.6.1,	IAW IMS
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		4.2.3.6.1	
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8.0 GOVERNMENT-FURNISHED EQUIPMENT AND INFORMATION

The DHS will provide, at no cost to the Contractor, when required and authorized by the contract:

- Workspace and furnishings at the designated DHS work sites for staff employees who are assigned by the contractor to the fulfillment of the HSIN contract;
- Government forms, publications and documents, except those offered for sale to the public;
- Access to computers, laptops, common-use software, data-access services, communications
 networks, and other resources owned or leased and operated by the DHS as appropriate for
 the completion of the Contractor's responsibilities;
- Required facility and network security access credentials and management of such credentials for use on DHS sites and networks;
- Help Desk tools, (e.g. 866 help desk number, help desk email, Remedy, Ticketing Solution and CISCO call centers with associated hardware)

9.0 PLACE OF PERFORMANCE

The primary place of performance for the HSIN NextGen task order contractor shall be at the contractor's Oakton Virginia facility, 10455 White Granite Drive, Suite 400. The Oakton facility is within fifty miles of the DHS Office of Operations Coordination (OPS) at the Nebraska Avenue Complex (NAC) in NW Washington DC. HSIN NextGen system build activities shall be conducted at the DHS Data Centers (to be determined) and HSIN NextGen testing tasks may require periods of travel to one or more of the DHS HSIN NextGen stakeholder offices located in the continental United States, United States territories, and internationally. The HSIN Next Generation System shall be physically hosted at no less than two geographically-separated DHS Data Centers, which include Government owned, Government operated, and contractor owned and contractor operated. The locations of these geographically separated data centers shall be at the sole discretion of DHS. Contractors will be provided the necessary physical and remote access.

9.1 Travel Requirements

The contractor shall comply with the guidance in FAR 31.205-46 using the regulations specified below:

- Federal Travel Regulations (FTR) prescribed by the General Services Administration, for travel in the contiguous United States.
- Joint Travel Regulations (JTR), Volume 2, DoD Civilian Personnel, Appendix A. prescribed by the Department of Defense, for travel in Alaska, Hawaii, and outlying areas of the United States.
- Department of State Standardized Regulations (DSSR) (Government Civilians, Foreign Areas), Section 925, "Maximum Travel Per Diem Allowances for Foreign Areas", prescribed by the Department of State, for travel in areas not covered in the FTR or JTR.

Prior to any long distance travel, the contractor shall prepare a Travel Authorization Request for Government review and COTR approval. The contractor shall use only the minimum number of

travelers and rental cars needed to accomplish the task(s). Travel shall be scheduled during normal duty hours whenever possible.

Requests for travel approval shall contain:

- Date, time and points of departure
- · Destination, time and dates of arrival
- Name of each contractor employee and position title
- Include a description of the travel proposed including a statement as to purpose
- Identify the Task Order number
- Identify the CLIN(s) associated with the travel
- Be submitted in advance of the travel with sufficient time to permit review and approval.

10.0 PERIOD OF PERFORMANCE

This PWS covers the task order's basic and four option performance periods. The task order's basic period of performance shall be from the effective date of the task order award through the task order month 12 (one year). Beyond the base period, there are four one-year option periods. Taken together with the base period

Period of Performance				
Base Period	365 calendar days			
Option Year 1	365 calendar days after Base period			
Option Year 2	365 calendar days after Option period			
Option Year 3	365 calendar days after Option period			
Option Year 4	365 calendar days after Option period			

and option periods, the task order term may last for a total period not to exceed five years. Periods of Task Order Performance to begin upon date of task order award.

11.0 SECURITY

The Contractor shall be responsible for Information Technology (IT) security for all systems connected to a DHS network or operated by the Contractor for DHS, regardless of location. This clause applies to all or any part of the contract that includes information technology resources or services for which the Contractor must have physical or electronic access to sensitive information contained in DHS unclassified systems that directly support the agency's mission.

The contractors shall comply DHS Management Directive (MD) 11042.1 Safeguarding Sensitive But Unclassified (For Official Use Only) Information, MD 4300.1 Information Technology Systems Security, and the DHS Sensitive Systems Handbooks.

Contractors shall not use or redistribute any DHS information processed, stored, or transmitted by the contractor except as specified in the task order.

Interconnections between DHS and non-DHS IT systems shall be established only through controlled interfaces and via approved service providers. The controlled interfaces shall be accredited at the highest security level of information on the network. Connections with other Federal agencies shall be documented based on interagency agreements, memoranda of understanding, service level agreements or interconnect service agreements.

Components shall document interconnections with other external networks with an Interconnection Security Agreement (ISA). Interconnections between DHS Components shall require an ISA when there is a difference in the security categorizations for confidentiality,

integrity, and availability for the two networks. ISAs shall be signed by both DAAs or by the officials designated by the DAA.

Contractor employees (to include applicants, temporaries, part-time and replacement employees) requiring access to sensitive information, shall undergo a position sensitivity analysis based on the duties, outlined in the Position Designation Determination (PDD) for Contractor Personnel, each individual will perform on the contract. Prospective Contractor employees shall submit the required forms to OSI through the COTR no less than thirty (30) days before the start date of the contract or thirty (30) days prior to entry on duty of any employees, whether a replacement, addition, subcontractor employee, or vendor.

The COTR shall be notified of all terminations/resignations within five (5) days of occurrence. The Contractor shall return to the COTR all DHS issued identification cards and building passes that have either expired or have been collected from terminated employees. If an identification card or building pass is not available to be returned, a report shall be submitted to the COTR, referencing the pass or card number, name of individual to who it was issued and the last known location and disposition of the pass or card.

When sensitive government information is processed on DHS telecommunications and automated information systems, the Contractor shall provide for the administrative control of sensitive data being processed and adhere to the procedures governing such data as outlined in "DHS IT Security Program – Publication DHS MD 4300.Pub".

All Contractor employees using DHS automated systems or processing DHS sensitive data shall receive Security Awareness Training.

Contractors involved with management, use, or operation of any IT systems that handle sensitive information within or under the supervision of DHS, shall receive periodic training at least annually in security awareness and accepted security practices and systems rules of behavior. Contractors with significant security responsibilities, shall receive specialized training specific to their security responsibilities annually. The level of training shall be commensurate with the individual's duties and responsibilities and is intended to promote a consistent understanding of the principles and concepts of telecommunications and IT systems security.

The Contractor shall ensure that requirements are allocated in the functional requirements and system design documents to security requirements are based on the DHS policy, NIST standards and applicable legislation and regulatory requirements.

The Contractor shall ensure that all aspects of data security requirements (i.e. confidentiality, integrity, and availability) are included in the functional requirements and system design, and ensure that they meet the minimum requirements as set forth in the DHS Sensitive Systems Handbook and policies and procedures.

The platform must be implemented in a data center that meets the DHS Extranet Security requirements as specified in the DHS 4300A.

12.0 QUALITY ASSURANCE SURVEILLANCE PLAN

The contractor will assist the Government in developing a Quality Assurance Surveillance Plan with measures defined in Section 13 of this document.

HOMELAND SECURITY INFORMATION NETWORK (HSIN)

FUNCTIONAL REQUIREMENTS DOCUMENT (FRD)

Version 5.0



Submitted:

11 March 2008

Developed for:

DHS/Office of Operations Coordination (OPS)

HSIN 2.X (Basis for Procurement – Must be hosted in 3.X Solution)

HSIN 3.X (New Development)

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1 INTRODUCTION

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1.1 Purpose

The purpose of this Functional Requirements Document (FRD) is to define and outline the known services and functional requirements for the next generation Homeland Security Information Network (HSIN). The update enhances the current HSIN implementation.

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- Information presented with an italic typeface in a bulleted list represents functionality (or a non-business requirement) that is completely new to HSIN. Information that is non-italicized in a bulleted list represents existing functionality of the HSIN system. Appendix A provides a list of acronyms used in this FRD. Appendix B identifies additional sources which may be of use when reviewing this document.
- Appendix C presents a glossary of many of the key terms used in this document. Some acronyms will be found spelled out as a footnote, rather than the original text. This was done on a limited basis to preserve
- 14 the formal citation of a document.

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1.1.1 Mission

The mission of the HSIN Next Generation System is to provide a secure and trusted national platform for information sharing and collaboration between Federal, State, Local, Tribal, Territorial, Private Sector and International partners engaged in preventing, protecting from, responding to and recovering from all threats, hazards and incidents within the authority of the Department of Homeland Security (DHS).

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1.1.2 Scope

The HSIN Next Generation System is a national sharing and collaboration platform that provides and/or serves as a conduit to Sensitive but Unclassified (SBU) data and analysis regarding people, places, things, events, resources and activities lawfully owned, maintained by and shared in a multi-directional, trusted and secure environment. DHS and other domestic and international users, who are in mission partnership with DHS for the purpose of supporting missions to prevent, protect from, respond to and recover from all threats, hazards and incidents included within the official scope of DHS authority.

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HSIN Next Generation development includes the design, development, integration and test, and implementation of a multi-level secure Open Architecture system. Figure 1 provides a pictorial view of the structure of this FRD.

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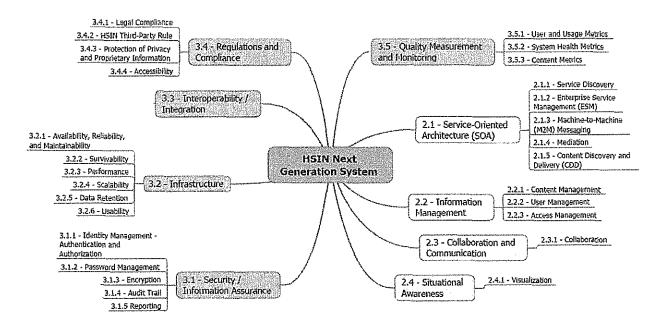


Figure 1. HSIN Next Generation System Requirements Structure

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1.1.3 Vision

The vision of the DHS Office of Operations Coordination (OPS) Chief Information Officer (CIO) is for HSIN Next Generation to be the Homeland Security community's information sharing tool of choice for protecting, preventing, responding to, and recovering from terrorist attacks and natural and man-made disasters.

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In its end state, the HSIN Next Generation System is envisioned to provide to members of the Homeland Security Community relevant and actionable information that will support them in executing their responsibilities across the entire spectrum of Homeland Security operations. More specifically, the goal is "to enhance the ability of the United States to mange domestic incidents by establishing a single, comprehensive national incident management system" as stated by Homeland Security Presidential Directive (HSPD) 5 (referenced as "HSPD-5" hereafter).

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1.1.4 HSIN Description

The current HSIN is a primary communication and collaboration system that supports the unified effort to prevent and deter terrorist attacks, and prepare for and respond to any natural or man-made disaster. The HSIN system provides a means to plan, coordinate, collaborate, execute, report, analyze, and promote situational awareness. HSIN acquisition objectives are outlined in the HSIN Program Wide Acquisition Plan (AP) include:

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- Providing a common, interoperable information technology (IT) architecture for gathering, fusing, analyzing, and reporting all threats, all hazards information to the U.S. Homeland.
- Hosting the DHS National Operations Center (NOC) to provide leaders and stakeholders with timely, accurate, relevant, and highly integrated all-source information to enhance operational situational awareness and actionable decision making.

HSIN supports DHS executions under the Homeland Security Act (HSA) of 2002, HSPD-5, DHS
 Strategic Plan, and DHS Objectives.

1.1.5 HSIN Functional Objectives

The primary HSIN functional objectives are as follows:

 Establish a robust national information sharing and collaboration system in support of the counter terrorism and emergency response missions, ensuring timely and reliable access to and use of information.

 Provide key leadership, planners and community stakeholders at all levels of government
with the best possible information and situation awareness for planning, coordinating, and
conducting operations related to the prevention of crises, and responding to, mitigating, and
recovering from the effects of crises.

• Provide a system with a secure, integrated architecture that is cross-platform with all Federal, State, Local, Tribal, Territorial, Private Sector and International partners.

• Provide authorized access to data stores, shared services (i.e. federated searches), near real-time collaboration, accessible information, systematic information gathering, and dissemination.

 • Provide a standards-based architecture to enable the private sector to interact and share information on critical infrastructure and key resources with government organizations.

1.2 Project Description

 DHS OPS enables strategic decision-making and operations through National-level contingency planning and incident coordination, situational awareness and operational assessments, and information sharing and subject matter expertise. By taking these actions, OPS enhances mission effectiveness and unity of effort for all threats/all-hazards Homeland Security operations.

OPS CIO is currently managing the development, implementation, and program execution of two major investments, HSIN and DHS NOC Common Operational Picture (COP), both of which are used in the DHS OPS NOC.

HSIN provides a common, interoperable IT architecture for gathering, fusing, analyzing, and reporting information and threats to the U.S. Homeland. This is achieved by ensuring timely and accurate dissemination of relevant information to Homeland Security stakeholders.

HSIN is currently connecting Community of Interest (COI) members from law enforcement agencies, emergency management and first responder agencies, intelligence agencies, private sector infrastructure stakeholders, DHS component organizations, and international partners. Access rights to the system will be determined by the user's COI-vetted classification, as well as their role-based privileges for services and content. HSIN Next Generation will continue to increase functionality, access levels and infrastructure, increasing community and user trust, utility and utilization.

The HSIN Next Generation System will improve sharing of timely, validated, protected, and actionable all threats/all-hazards information. The HSIN Next Generation System will promote more rapid and effective interchange and coordination among the DHS enterprise and Federal, State, Local, Tribal, Territorial, Private Sector and International partners, thus ensuring effective multi-directional sharing of information, as described below.

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1.3 Assumptions and Constraints

1.3.1 Assumptions

- The HSIN Next Generation System will draw upon the existing HSIN system and capabilities, rather than be a complete infrastructure replacement.
- The solution that meets these requirements will be a combination of Government Off-the-Shelf (GOTS) and Commercial Off-the-Shelf (COTS) hardware, firmware, and software components.
 - The HSIN Next Generation System must be resilient and adaptable as threats change, technologies evolve and information needs shift.

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1.3.2 Constraints

- The HSIN Next Generation System must incorporate *all* of the existing functionality of the HSIN 2.x system (as denoted in Table 1, the Requirements Traceability Matrix, beginning on page 52), in addition to the completely new functionality for the 3.x system as defined herein.
- The HSIN Next Generation System implementation must require no installation of any clientside software.
 - The HSIN Next Generation System implementation must be entirely web browser-based.
- Users accessing HSIN, except users accessing HSIN via the Internet, must use OneNET, unless a waiver is obtained from the DHS CIO.
 - The HSIN Next Generation System must provide load balancing between production sites and application servers.
 - The HSIN Next Generation System must support a data replication/data mirroring capability to enable concurrency of information between the production sites.
 - The HSIN Next Generation System must comply with all DHS policies, legalities, and standards as described herein.
 - The HSIN Next Generation System does not include building an email system.
- The HSIN Next Generation program does not have any control of the user operating environment.

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1.4 Interfaces to External Systems

- 140 The HSIN Next Generation System context diagram (see Figure 2 on page 5) provides a visual depiction
- of the system, its external interfaces, and its users. System interfaces will be compliant with the
- 142 Information Sharing Environment (ISE) Implementation Plan. There will be a variety of usage
- agreements that may be required. These may be in the form of End-User License Agreements (EULAs),
- which will become more critical as looser coupling occurs via the Service-Oriented Architecture (SOA)
- structure, or a more formal Interface Security Agreement (ISA) with attendant Service Level Agreement
- 146 (SLA).

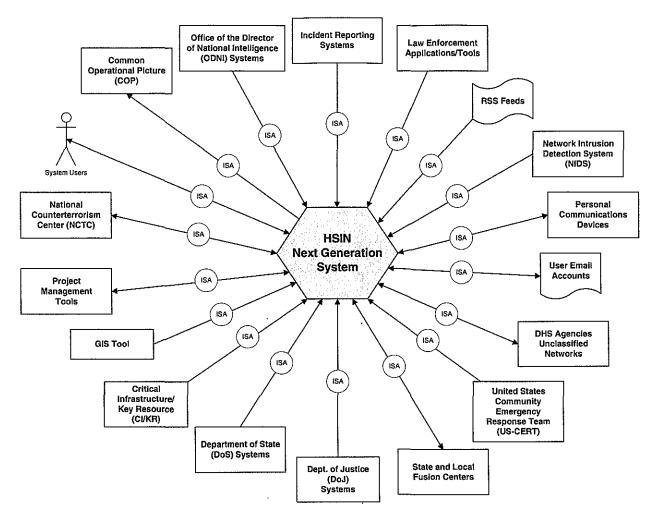


Figure 2. HSIN Next Generation System Context Diagram

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1.5 Points of Contact

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^{1 &}quot;STD" stands for "Standard."

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² "ANSI/NISO" stands for "American National Standards Institute/National Information Standards Organization."

^{3 &}quot;JSR" stands for "Java Specification Request."

^{4 &}quot;GIS" stands for "Geodata Interoperability Specification."

HSIN Next Generation Attachment J-2

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^{5 &}quot;P.L." stands for "Public Law."

2 FUNCTIONAL REQUIREMENTS

2.1 Service-Oriented Architecture (SOA)

The HSIN Next Generation System will promote interoperability between DHS enterprise and Federal, State, Local, Tribal, Territorial, Private Sector and International partners through an SOA. The HSIN Next Generation SOA objective is intended to define a set of capabilities that can be satisfied with commercially available products, open standards and include the following enterprise core services: Enterprise Service Management (ESM), Content Discovery and Delivery (CDD), Machine-to-Machine (M2M) Messaging, and Service Discovery.

The HSIN Next Generation SOA framework will provide the infrastructure required to support the development of web services to promote the sharing of data that is of value to organizations supporting the mission of securing the homeland. The HSIN Next Generation SOA framework includes the Core Enterprise Services described above, but will also incorporate provisioning of services to support and encourage the development and use of services for use with external system communication.

The HSIN Next Generation System architecture will require an open system approach, which employs modular design tenets, uses widely supported and consensus based standards for its key interfaces and is subject to independent validation and verification (IV&V) tests to ensure the openness of its key interfaces.

The Operational View 1 (OV-1) diagram (refer to Figure 3 on page 10) illustrates the HSIN Next Generation operating environment. HSIN Next Generation facilitates information sharing among Federal, State, Local, Tribal, Territorial, Private Sector and International partners by providing a wide range of services for each to use in accomplishing their respective missions. Additionally, HSIN capabilities will be extended to federated users who are authorized users of other networks, but whose credentials will be accepted for access to HSIN information. The following definitions are used to clarify the types of users and services.

• Core HSIN Next Generation System Users: These are users whose accounts are maintained by the HSIN Next Generation System.

Federated Users: These are users whose accounts are maintained elsewhere, but whose
credentials are recognized and honored by the HSIN Next Generation System's security/access
policy.

 • HSIN Next Generation System Services: Services available to all HSIN users through the HSIN Next Generation System.

Figure 3. HSIN Next Generation Information Sharing Overview

The SOA requirements for the HSIN Next Generation System are listed below:

- The HSIN Next Generation System shall use SOA to assure the interoperability of collaborative systems and the ability to seamlessly share data.
- The HSIN Next Generation System shall comply with the DHS SOA Framework as outlined in, DHS Service Oriented Architecture Technical Framework, 12 February 2007.
- The HSIN Next Generation System shall comply with the Service Discovery Standards of the DHS Enterprise Portal Standards List, including Simple Object Access Protocol (SOAP).
- The HSIN Next Generation System shall comply with the Information Sharing Environment Implementation Plan, November 2006.

2.1.1 Service Discovery

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A key component of the HSIN Next Generation System SOA framework will be a searchable repository of services that provides an asset management capability for services within DHS and supports the full life-cycle of services and service artifacts. Service Discovery allows service providers to publish/advertise service specifications, metadata, and service accessibility to the entire community. Service Discovery also allows service consumers to discover information as advertised by providers.

The service discovery requirements for the HSIN Next Generation System are listed below:

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The HSIN Next Generation System shall be able to discover, identify and use services that are external to HSIN Next Generation System.

The HSIN Next Generation System SOA framework shall incorporate a searchable repository

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- The HSIN Next Generation System shall conform to the UDDI V3.0.2 standard, including Service Discovery specification for support of the SOA framework.

of services that provides an asset management capability for services within DHS.

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The HSIN Next Generation System shall comply with the Service Discovery Standards of the DHS Enterprise Portal Standards List, including UDDI.

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2.1.2 Enterprise Service Management (ESM)

The ESM capability collects information to support monitoring and management of all web services within the HSIN Next Generation system. To accomplish this objective, the ESM capability provides the ability to measure Service Level Metrics with an SLA, is aware of the situational status of services, and provides service status information to external consumers such as the DHS Infrastructure Services Management Center.

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The ESM requirements for the HSIN Next Generation System are listed below:

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The HSIN Next Generation System ESM capability shall collect information to support monitoring and management of web services within the HSIN Next Generation System.

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The HSIN Next Generation System ESM capability within the HSIN Next Generation System shall interface with the DHS infrastructure toolset.

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2.1.3 Machine-to-Machine (M2M) Messaging

The use of M2M Messaging will provide the HSIN Next Generation System with the infrastructure to establish and sustain a reliable bridge between multiple organizations for the interoperable sharing of data.

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The M2M Messaging requirements for the HSIN Next Generation System are listed below:

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The HSIN Next Generation System Machine-to-Machine Messaging capability shall allow DHS software applications to interoperate in order to perform synchronous and asynchronous messaging.

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The HSIN Next Generation System Machine-to-Machine Messaging capability shall allow other agency's software applications to interoperate in order to perform synchronous and asynchronous messaging.

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2.1.4 Mediation

361 The HSIN Next Generation System Mediation capability provides the infrastructure to integrate data 362 providers seamlessly with data consumers and other data providers. The focus of this integration is to 363 provide the capability to translate schemas and orchestrate interactions between web services into a

workflow supporting HSIN stakeholder missions. This capability will provide DHS with the infrastructure to translate messages that allows the sharing of data between multiple organizations.

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The mediation requirements for the HSIN Next Generation System are listed below:

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 The HSIN Next Generation System Mediation capability shall support data format transformations in compliance with the National Information Exchange Model (NIEM).

371 372 The HSIN Next Generation System Mediation capability shall support rules-based data routing.

373 374 The HSIN Next Generation System Mediation capability shall support orchestration of web services.

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2.1.5 Content Discovery and Delivery (CDD)

377 378 379 The HSIN Next Generation System CDD capability will provide a fast response method of information transport. This CDD capability facilitates the movement of content around the enterprise for rapid access, enterprise federated alerts and transactional messaging capabilities. This system capability will also incorporate enterprise subscription and publishing capabilities and mediation-enabling services to

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facilitate disaster recovery efforts.

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This CDD capability may include, but is not limited to, the establishment of publish/subscribe channels in which users receive content published over a predefined channel. It may also encompass the capability to provide a distributed content cache (i.e., the capability for transparent pull of content from regional locations during user requests to support responsiveness). The CDD provides Content Staging data replication and forward staging solutions into the HSIN Next Generation System. This functionality supports responsiveness and provides guaranteed reliable delivery in accordance with assigned handling instructions, configurable bandwidth use, and transfer scheduling.

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The CDD requirements for the HSIN Next Generation System are listed below:

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The HSIN Next Generation System shall incorporate a CDD capability.

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• The HSIN Next Generation System shall provide for performing federated searches for enterprise content across federated search-enabled SBU data sources.

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• The HSIN Next Generation System shall provide for indexing the search-enabled enterprise content.

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• The HSIN Next Generation System shall provide for searching other federated content repositories across SBU classifications.

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• The HSIN Next Generation System shall provide for automatically indexing external content.

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• The HSIN Next Generation System shall provide for establishing catalogs of tagged information.

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• The HSIN Next Generation System shall provide for searching these established catalogs of tagged information.

405 406 • The HSIN Next Generation System shall provide for migrating COI-specific data sources to support federated search, saving for reuse, archiving, and de-confliction.

• The HSIN Next Generation System shall be able to discover, identify and use content that is resident external to HSIN Next Generation System.

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2.2 Information Management

2.2.1 Content Management

A primary function of the HSIN Next Generation System is to serve as a central point of information sharing and collaboration across agencies and components within and outside of the federal government. The ability to create, protect, and manage content is of utmost importance. Content Management is the collection and dissemination of either raw or processed data for the operational use of COI members and for use by the various analytical COIs.

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In support of critical situations and emergencies that would require high-volume information processing the HSIN Next Generation System's content management capabilities must support bulk content management operations such as upload and download. Integrated content metadata extraction is needed to ease content organization within the HSIN Next Generation System environment for all content operation transactions, and bulk content operation transactions.

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The general content management requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall provide capabilities to allow information gathered at the all levels to be processed, analyzed, disseminated, and integrated with information gathered at the all other levels.
- The HSIN Next Generation System shall provide a content management system that allows the user to create, update, publish, translate, archive and retrieve accessible content.
 - The HSIN Next Generation System shall provide multiple logical repositories such that user access can be restricted to an individual Agency/Unit repository.
 - The HSIN Next Generation System shall provide the user with the ability to distinguish new data, changed data, and unchanged data. (For example, the system will distinguish changed content within a file, document, or other content piece).
 - The HSIN Next Generation System shall provide visual indications of changed or new content.
 - The HSIN Next Generation System shall support the logical storage of and ability to easily visually distinguish content that is hierarchically (parent-child) related.
 - The HSIN Next Generation System shall allow users to create and remove content folders as needed for content organization.
 - The HSIN Next Generation System shall be capable of accessing content which is stored in external repositories or systems.
- The HSIN Next Generation System shall allow the user to "tag" content for access.
 - The HSIN Next Generation System shall display content based on user privilege.
 - The HSIN Next Generation System shall allow end-user to be able to redact or sanitize data for public use and distribute to all communities that need the data.

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- The HSIN Next Generation System shall provide the capability to remove content from view or access.
- The HSIN Next Generation System shall provide the author/data provider with the ability to set content validity time.
 - The HSIN Next Generation System shall maintain a record of retention schedules and removal schedules.
 - The HSIN Next Generation System shall provide check-in/check-out control for each piece of content stored in the content repository, for controlled information provisioning.
 - The HSIN Next Generation System shall provide version management capabilities to keep track of different versions of the same information with their revisions and renditions.
 - The HSIN Next Generation System shall provide "dynamic linking" capabilities to maintain link integrity.
 - The HSIN Next Generation System shall provide "dynamic linking" capabilities to identify inactive links.
 - The HSIN Next Generation System shall support bulk content management operations such as upload, download and remove.
 - The HSIN Next Generation System shall provide the capability to segregate content based upon individual community governance preferences.
 - The HSIN Next Generation System shall be capable of handling Protected Critical Infrastructure Information (PCII) data.
 - The HSIN Next Generation System shall be certified to handle PCII data.
 - The HSIN Next Generation System shall provide end-users with the ability to execute Freedom of Information Act (FOIA) requests.
 - The HSIN Next Generation System shall only provide the FOIA requestor with the content that the Agency "owns."
 - The HSIN Next Generation System shall permanently "tag" all content with originating identifying information, including author and agency, which enables permanent/continuous/persistent ownership of all content.
 - The HSIN Next Generation System shall "tag" all content to track individuals what have downloaded a particular content piece.
 - The HSIN Next Generation System shall allow content owners to "tag" all content with accessibility information, which enables Section 508 compliance of all content.
- The HSIN Next Generation System shall provide the capability to "tag" content with handling procedures for each piece of content (i.e., how long to store and where to store).
- The HSIN Next Generation System shall allow content to be saved to a user-defined subject.
- The HSIN Next Generation System shall allow content to be retrieved by a user-defined subject.
- The HSIN Next Generation System shall allow the author/agency that introduced the content into the system to retain all rights over any content they "publish."

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487 The HSIN Next Generation System shall provide the ability to use analytical tools on content 488 for the purposes of analyzing for patterns. 489 The HSIN Next Generation System shall provide the ability for user-defined content 490 attributes. 491 The HSIN Next Generation System shall provide the ability to search and link across portals 492 for content containing an attribute. 493 The HSIN Next Generation System shall allow content submitters to choose to prevent the content from being saved onto other user's computers. 494 495 The HSIN Next Generation System shall allow content submitters to choose to prevent the 496 content from being copied. The HSIN Next Generation system shall provide users with spell-check capabilities so that 497 the spelling of text entered in free-text field can be checked before submission. 498 499 The HSIN Next Generation System shall comply with the Content Management Standards of the DHS Enterprise Portal Standards List, including: 500 501 DoD 5015.2-STD, Design Criteria Standard for Electronic Records Management 502 Software Applications 503 OASIS OpenDocument, Version 1.x 504 ISO 15489 (Parts 1 and 2) 505 JSR 170/283 506 507 2.2.1.1 Content Type 508 The HSIN Next Generation System will be able to support a diverse array of content types on its content 509 management platform and many different types of industry sensitive information. The HSIN Next 510 Generation System should enable users to create, share, and edit simple and rich digital content. 511 512 The content type requirements for the HSIN Next Generation System are listed below: 513 514 The HSIN Next Generation System shall support, but not limited to, the following various 515 content types, for capture classification, attachment to workflows, editing, printing, and 516 managing as: 517 Microsoft Office suite (Word, Excel, PowerPoint, Project, Access, Publisher, InfoPath, 518 and Visio) 519 Websites

eXtensible Markup Language (XML) / HyperText Markup Language (HTML) / eXtensible

Stylesheet Language Transformation (XSLT) / Cascading Style Sheet (CSS)

- 522 Portable Document Format (PDF)
- 523 Tagged Image File Format (TIFF)
- 524 *Bitmap (BMP)*

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- 525 Joint Photographic Experts Group (JPEG)
- 526 Portable Network Graphic (PNG)

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527	· —	Email, including archive formats (Microsoft Outlook and Lotus Notes)
528	-	Email attachments
529	_	Geospatial documentation/data
530		Databases (Structured Query Language [SQL], Oracle, Microsoft Access)
531	-	WinZip
532		Adobe Page Maker
533	_	Adobe Photoshop
534	_	Rich Media
535	_	Adobe animation (e.g. Flash, Shockwave)
536	_	Streaming video
537	-	Workflow tools
538	-	Faxes routed through electronic gateways
539	_	Others as may be determined by the government
540 541		e HSIN Next Generation System shall support National Oceanic and Atmospheric istration (NOAA) Vessel Monitoring System (VMS) data.
542 543		e HSIN Next Generation System shall provide protection of information in accordance s characteristics, down to individual content components in documents.
544	• Th	e HSIN Next Generation System shall provide a means of compressing content.
545 546		e HSIN Next Generation System shall provide a means of tagging and ingesting external and attachments directly to the system repository.
547 548 549		ne HSIN Next Generation System shall provide a means of maintaining the original format external emails and attachments so they can be copied back into the originating nment.
550 551		te HSIN Next Generation System shall provide selective inclusion/exclusion of external attachments and multipart emails and attachments for capture into the system repository.
552	• Th	e HSIN Next Generation System shall provide an ability to capture external email heading.
553	• Th	e HSIN Next Generation System shall provide the ability to save email in .msg format.
554 555	• The metad	te HSIN Next Generation System shall provide capability for tagging content using ata.
556 557	• Th	ne HSIN Next Generation System shall provide the user the ability to define metadata pries.
558 559		ne HSIN Next Generation System shall retain all metadata associated with any piece of attachmentation during its entire life-cycle.
560 561		ne HSIN Next Generation System shall enable users to create, share, and edit simple and igital content including any tagging necessary for accessibility (Section 508 compliance).

563 2.2.1.2 Search and Discovery

Search is a critical cornerstone to the information exchange and sharing objectives of the HSIN Next

- 565 Generation System. To meet the needs of information retrieval from across disparate agencies,
- 566 communities, and sources, the HSIN Next Generation System must employ a uniform federated search
- interface that can issue broad reaching flexible queries, and results-merging and ranking capabilities.
- While not all data sources might be local to the HSIN Next Generation System, all data featured in the

HSIN Next Generation System should be indexed for ease of search.

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The search and discovery requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall provide federated search engine capability based on user access privileges.
- The HSIN Next Generation System shall provide all applicable search result titles and classification levels, regardless of user access privilege.
- The HSIN Next Generation System shall display a point of contact (POC) for search results the user does not have privileges to access.
- The HSIN Next Generation System shall provide the ability and require that the user select to have their document returned in search results if the searcher does not have access otherwise. NOTE: The default for every posting shall be to NOT be searchable by non-privileged users
- The HSIN Next Generation System shall provide capability to query systems of record.
- The HSIN Next Generation System shall provide capability to unambiguously index information.
- The HSIN Next Generation System shall provide capability to display search results.
- The HSIN Next Generation System shall provide capability to export search results.
- The HSIN Next Generation System shall perform crawler-type indexing for enhanced search (e.g., Google desktop).
 - The HSIN Next Generation System shall comply with the Search Standards of the DHS Enterprise Portal Standards List, including ISO 23950:1998, Information Retrieval (Z39.50).
 - The HSIN Next Generation System shall allow the end-users to select any content from a search for use directly through the browser or for downloading onto their personal computer (PC).
 - The HSIN Next Generation System shall allow users to search on specific file formats.
- The HSIN Next Generation System shall allow users to search on specific validity dates.
 - The HSIN Next Generation System shall allow users to search based on alternative text for images and visual file formats.
 - The HSIN Next Generation System shall allow users to search on metadata associated with content.

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2.2.1.3 Personalization/Customization

- Due to extensive reach of the HSIN Next Generation System into various levels among Federal, State,
- 603 Local, Tribal, Territorial, Private Sector and International partners, it is imperative that the HSIN Next
- Generation System be adaptable to each user communities? needs in terms of functionality and user

experience. The need for customization can come from perspectives of various levels of agencies and users. Not all of the HSIN Next Generation System features are used in the same manner or context across communities that have unique missions or processes.

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Personalization will significantly influence the customization capabilities of the HSIN Next Generation System. The HSIN Next Generation System is expected to be a completely dynamic system, which will use operating procedures, to be defined by administrators, to build pages based on such things as a user's logins and items previously viewed to intelligently decide what to show on a page.

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The customization requirements for the HSIN Next Generation System are listed below:

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The HSIN Next Generation System shall support personalization.

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The HSIN Next Generation System shall provide the ability to customize on a per device basis.

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The HSIN Next Generation System shall allow users to choose a customized set of links available to them.

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The HSIN Next Generation System shall allow users to customize their homepage.

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The HSIN Next Generation System shall allow the user to configure display of system components available to them.

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The HSIN Next Generation System shall provide the ability to select content from multiple communities and configure display per their preference.

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The HSIN Next Generation System shall allow integration of common components from multiple communities (e.g., single calendar for all events across all user access areas).

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The HSIN Next Generation System shall use operating procedures to dynamically customize the user experience.

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The HSIN Next Generation System shall use the end-user's cookie setting choices as part of each user's profile.

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The HSIN Next Generation System shall allow users to create home pages containing portlets within the HSIN Next Generation framework.

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The HSIN Next Generation System shall enable users to tag all content as necessary for accessibility (Section 508 compliance).

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The HSIN Next Generation System shall comply with the personalization standards of the Enterprise Portal Standards List, including:

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HTML 4.x

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Asynchronous JavaScript and XML (AJAX)

- Portlets/Webparts - JSR 168

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2.2.1.4 Content Subscriptions

- The HSIN Next Generation System will offer the ability for all users to configure individual Really
- 644 Simple Syndication (RSS) feed lists. Through this list, users may subscribe to content updates from 645 various syndications for objects, events, and sources. The aggregation of this information should be
- 646 presented in a uniform setting for all HSIN Next Generation System users.

The content subscription requirement for the HSIN Next Generation System is listed below:

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The HSIN Next Generation System shall provide content subscription capabilities.

651 652 The HSIN Next Generation System shall provide the ability to configure individual RSS Feed lists.

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2.2.2 User Management

The HSIN Next Generation System's administrators and approved users will have the ability to manage users and account settings. Maintaining and managing the HSIN Next Generation System repository of users is critical to the security and integrity of the system. HSIN will have basic user management and assignment capabilities. HSIN Next Generation member managers will be able to define, create, modify, delete and add users.

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The user management requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall provide registration to admit a new user into the system.
- The HSIN Next Generation System shall provide registration to admit new users into the system in bulk.
 - The HSIN Next Generation System shall use agency active directories in support of managing users.
 - The HSIN Next Generation System shall enforce user acceptance of an approved access agreement to gain access to the System for the first time.
 - The HSIN Next Generation system shall enforce user acceptance of an approved access agreement to gain access to the system at account revalidation.
 - The HSIN Next Generation system shall support the automatic creation/maintenance of accounts with appropriate role attributes defined by a Security Assertion Markup Language (SAML) assertion.
 - The HSIN Next Generation system shall provide the capability for users to establish user groups by individual users or by specifying user metadata.
 - The HSIN Next Generation system shall provide the capability for users to share groups with other users.
 - The HSIN Next Generation System shall allow the assignment of security levels to approved users or groups of users.
 - The HSIN Next Generation System shall provide a workflow capability to manage the user management process.
 - The HSIN Next Generation System shall provide an emergency workflow process to give access in bulk without having to go through the standard workflow process.
 - These accounts shall be tagged as "Special" and shall be deactivated after a predetermined time period.

689 2.2.2.1 Role-Based Access and Role Definition

The assignment of roles is critical to the HSIN Next Generation System. Role assignment and privileges within the HSIN Next Generation System will dictate user access to specific areas and content. The system should also flag users for removal based on their defined roles.

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The role-based access and role definition requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall support roles in the user repository.
- The HSIN Next Generation System shall provide role-based access control across all templates, content, processes, and repositories for:
 - Individual users
- 701 Groups of users
- 702 Individual directories/domains
- 703 Subdirectories
- 704 Sites
- The HSIN Next Generation System shall assign content access privileges to roles in the user repository.
- The HSIN Next Generation System shall assign users to roles in the user repository.
- The HSIN Next Generation System shall be capable of assigning a user to multiple roles.
- The HSIN Next Generation System shall be capable of assigning a user to multiple roles on a temporary basis.
 - The HSIN Next Generation System shall assign role access requirements to a single piece of content in the user repository.
 - The HSIN Next Generation System shall define role access requirements to a collection of content in the user repository.
 - The HSIN Next Generation System shall have the ability to define role access requirements in a single operation to a collection of content.
 - The HSIN Next Generation System shall have the ability to define role access requirements in a single operation to a collection of services.
 - The HSIN Next Generation System shall have the ability to define groups of collections role access requirements in a single operation.
 - The HSIN Next Generation System shall have the ability to remove temporary role assignments after a predefined period of time automatically.

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2.2.3 Access Management

- Users will be provided access to the HSIN Next Generation System content based on their role and mission within the community. This should include HSIN Next Generation System COI, pages, services (such as applications), and content.
 - The HSIN Next Generation System shall allow the establishment of discrete access rights for all content, including custom content and functions.

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- 730 The HSIN Next Generation System shall provide security levels that can be set by the system approved users (i.e., users granted some system administrative privileges, usually on a temporary basis).
 - The HSIN Next Generation System shall allow the assignment of security levels and temporary privileges to approved roles to access approved content to which the end-user already has access (e.g., delegate rights downstream).
 - The HSIN Next Generation System shall allow approved end-users to have temporary privileges.
 - The HSIN Next Generation System shall provide the ability for approved roles to override access controls to release/unlock content.
 - The HSIN Next Generation System shall ensure that the end-user cannot use the system in any way to identify the presence of content to which they are unauthorized.
 - The HSIN Next Generation System shall restrict search and reporting access rights based on a discrete role or privilege.
 - The HSIN Next Generation System shall restrict content editing access rights, based on a discrete role or privilege.
 - The HSIN Next Generation System shall support the restriction to content print access rights, based on a discrete role or privilege.
 - The HSIN Next Generation System shall restrict content view only access rights, based on a discrete role or privilege.
 - The HSIN Next Generation System shall restrict content metadata view only access rights, based on a discrete role or privilege.
 - The HSIN Next Generation System shall restrict content delete access rights, based on a discrete role or privilege.
 - The HSIN Next Generation System shall restrict content workflow access rights, based on a discrete role or privilege.
 - The HSIN Next Generation System shall allow approved users to transfer ownership of content allocated to users who may have left the organization.

2.3 Collaboration and Communication

2.3.1 Collaboration

- The HSIN Next Generation System will maximize the quality and accessibility of content by allowing end-users to enforce standard production workflows, by providing effective tools for organizing,
- 762 did used to discrete standard production workings, by providing effective tools for organizing,
- categorizing and scheduling content. Collaboration is a primary requirement of the HSIN Next Generation
- System, consisting of two or more persons working together to support the mission. This consists of real-
- time communications, collaborating through discussion boards, Instant Messaging (IM) and other means
- 766 of communicating with other users.767
- 768 The HSIN Next Generation System should be designed with "presence technology" in mind. Presence
- technology makes collaboration possible wherever and whenever users are online. Providing this
- technology to such things as IM makes real-time collaboration effortless and intuitive. A driver with a
- 771 GPS-enabled device is an example of presence technology. The driver can be tracked and sent messages

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warning about traffic delays and suggesting alternate routes. Presence technology is an integral part of third generation (3G) wireless networks, and is being employed across a wide variety of communication devices, including cell phones, laptop computers, personal digital assistants (PDAs), television sets, and pagers.

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The HSIN Next Generation System must provide comprehensive web-based meeting capabilities that allow users from various jurisdictions to attend and participate. This must include the ability for multiple users to view presentation data of any visual and/or audio type presented in real-time. The common practices in this capability area dictates the functions for administration of presentation, screen publishing, attendance tracking, question sharing, and various other support functions that enable interactive information presentation for virtual meetings.

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The general collaboration requirements for the HSIN Next Generation System are listed below:

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• The HSIN Next Generation System shall provide joint, simultaneous and controlled information sharing capabilities as defined by roles.

The HSIN Next Generation System shall support industry best practices for device presence sensing capabilities whenever and wherever possible.

- The HSIN Next Generation System shall provide online meeting support capabilities.
- The HSIN Next Generation System shall provide virtual whiteboard capabilities.
- The HSIN Next Generation System shall allow the end-users to post content in multiple locations, in one transaction (federated posting). (Note: The intent of this requirement is not to duplicate content).
- The HSIN Next Generation System shall provide a community calendar feature that enables users to view and log related timelines and schedules.
- The HSIN Next Generation System shall allow users to add events to external personal calendar tools.
- The HSIN Next Generation System shall provide polling capabilities.
- The HSIN Next Generation System shall provide survey capabilities.
- The HSIN Next Generation System shall compartmentalize Internet protocols for seamlessly sharing real-time video information.
 - The HSIN Next Generation System shall synchronize Internet protocols for seamlessly sharing real-time video information.
- The HSIN Next Generation System shall provide an email gateway.
- The HSIN Next Generation System shall allow multiple user edit of content.

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2.3.1.1 Alerts, Notifications, and Announcements

The HSIN Next Generation System must have the ability to send alerts, notifications and post public announcements by an automated event or manual triggers to what would be a dynamically configurable set of HSIN end-users through multiple mediums. Mediums may include, but is not limited to, web portal, email, Short Message Service (SMS), and Wireless Application Protocol (WAP).

Task Order# HSHQDC-08-J-00134 11 March 2008

The alert, notification, and announcement requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall have the ability to process real-time alerts, notifications, and announcements.
- The HSIN Next Generation System shall allow approved users to send alerts regarding any type of announcements.
 - The HSIN Next Generation System shall allow approved users to send alerts, notifications, and announcements to individual users or groups of users.
 - The HSIN Next Generation System shall allow for personal creation of "alert groups" as well as administrator groups for all users with specified permissions.
 - The HSIN Next Generation system shall provide end users with the subject (or other indicator) of the content referenced in a notification or alert.
 - The HSIN Next Generation System shall support incoming messages, enabling interactive responses to alerts, notifications, and announcements.
 - The HSIN Next Generation System shall provide the recipients with a brief description of why the alert, notification, or announcements was sent, as entered by the author.
 - The HSIN Next Generation System shall allow end-users to report receiving an alert, notification, or announcement in error and request to opt out any future related alerts.
 - The HSIN Next Generation System shall capture and record when a user reports that they received an alert, notification, or announcement in error, for later analysis.
- The HSIN Next Generation system shall allow end-users to view all of the alerts, notifications, and announcements they have received.
 - The HSIN Next Generation System shall allow users to view alerts, notifications, and announcements they have sent.
 - The HSIN Next Generation System shall be able to store, recall, and display all sent alerts, notifications, and announcements, including their footers and any metadata.
 - The HSIN Next Generation System shall allow a user to view the name of the alert, notification, or announcement sender for all of the alerts they have received.
 - The HSIN Next Generation System shall provide receipt confirmation capabilities for alerts, notifications, and announcements.
 - The HSIN Next Generation System shall allow for senders of view alerts, notifications, and announcements to track and print reports of acknowledgement.
 - The HSIN Next Generation System shall allow approved users to view the names of recipients who have opened their intended view alerts, notifications, and announcements for supported alert types.
 - The HSIN Next Generation System shall allow approved users to set priorities for view alerts, notifications, and announcements.
- The HSIN Next Generation system shall allow end users to use a content keyword in order to define automated content alerts, notifications, and announcements.

- The HSIN Next Generation system shall provide alerts, notifications and announcements of new content based on content metadata fields.
 - The HSIN Next Generation System shall allow end-users to set the preferences, without help desk intervention, for which communication medium they will receive view alerts, notifications, and announcements
 - The HSIN Next Generation System shall allow view alerts, notifications, and announcements to be displayable on the homepage.
 - The HSIN Next Generation System shall comply with the Alerts / Warnings / Notification Standards of the DHS Enterprise Portal Standards List, including:
 - Web Notification Service (WNS) 0.1.0 in accordance with the OpenGIS Web Notification Service discussion paper
 - Common Alerting Protocol (CAP), V1.x

Content Alerts, Notifications, and Announcements

In addition to the ability for all HSIN Next Generation System users to receive triggered alerts, notifications, and announcements, the system must provide the capability to customize a subscription service for alerts, notifications, and announcements to any object or event at a granular level in the HSIN Next Generation System. Syndication of all content and events within the HSIN Next Generation System is necessary to enable the information feed aggregation feature. An example would be a new file upload of a certain type that is posted to a specific community that triggers an email notification to authorized persons of interest.

The content alert, notification, and announcement requirements for the HSIN Next Generation System are listed below:

- The HSIN Next Generation System shall provide end-users the ability to navigate directly to the content that is referenced in the view alert, notification, or announcement.
- The HSIN Next Generation System shall provide the ability to update alerts, notifications, and announcements.
- The HSIN Next Generation System shall provide the ability to remove alerts, notifications, and announcements.

Alerting Warning System (AWS)

The projected number of cross-agency users that HSIN targets to support and integrate into the network places the HSIN Next Generation System in a unique strategic position to be the single centralized point of critical information dissemination with time-sensitivity (as required by HSPD-5). Federal Emergency Management Agency (FEMA) initiated the Integrated Public Alert and Warning System (IPAWS) from Executive Order 13407, making it the Nation's next generation public communications and warning capability. To support the mission to improve reliability, security and accessibility of public alerts and warnings, the HSIN Next Generation System will integrate with IPAWS.

The Alerting Warning System requirements for the HSIN Next Generation System are listed below:

• The HSIN Next Generation System shall support the IPAWS requirements for alerting.

Department of Homeland Security
HOMELAND SECURITY INFORMATION NETWORK (HSIN)
FUNCTIONAL REQUIREMENTS DOCUMENT (FRD)
Version 5.0

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- The HSIN Next Generation System shall integrate with the DHS chosen alerting tool.
 - The HSIN Next Generation System shall require approved users to provide a brief explanation of why they are sending the alert.
 - The HSIN Next Generation System shall require approved users to select a pre-defined footer when entering alerts.
 - The HSIN Next Generation System shall allow approved users to send alerts to multiple communication medium and device including email and SMS.
 - The HSIN Next Generation System shall allow end-users to receive alerts via multiple communication mediums, including email and SMS.
 - The HSIN Next Generation System shall allow approved users to override the end-users defined communication medium preferences, on a per alert basis.
 - The HSIN Next Generation System shall truncate messages sent via SMS at 60 characters. The remaining message shall be sent via email.
 - The HSIN Next Generation System shall allow approved users to send alerts that are only available to the user through the web portal, which will send an external notification of the waiting alert.
 - The HSIN Next Generation System shall be capable of handling alerts at different priority levels.

2.3.1.2 User Community Directory

The HSIN Next Generation System must allow COIs to maintain a local user community directory drawing relevant user contact information based on dynamic COI membership accounts. This information would be statically displayed and available for authorized users to obtain.

The user community directory requirements for the HSIN Next Generation System are listed below:

- The HSIN Next Generation System shall provide a User Community Directory containing an interactive contact database which is inclusive of all community users.
- The HSIN Next Generation System shall allow the User Community Directory to be searchable as permissions allow.
- The HSIN Next Generation System shall provide User Community Directory functionality to integrate with Instant Messaging functions.
- The HSIN Next Generation System shall provide User Community Directory functionality to provide management of lists (subscription, create, edit, delete) by user and/or role.
- The HSIN Next Generation System shall provide User Community Directory functionality to integrate with other services of HSIN.
- 936 The HSIN Next Generation System shall allow export of the User Community Directory as permissions allow.
- The HSIN Next Generation System shall allow users of an approved role to omit the User Community Directory from display and access.
 - The HSIN Next Generation System shall provide end-users the ability to share contact information with other end-users.

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- The HSIN Next Generation System shall provide end-users the ability to choose which contact information to share with other end-users within their COI.
 - The HSIN Next Generation System shall provide end-users the ability to choose which contact information to share with other end-users outside of their COI.
 - The HSIN Next Generation System shall provide authorized users the ability to create contact lists.
 - The HSIN Next Generation System shall provide authorized users the ability to save contact lists.
 - The HSIN Next Generation System shall provide authorized users the ability to update contact lists they have created when authorized.
 - The HSIN Next Generation System shall provide authorized users the ability to share contact lists they created with other users when authorized.
 - The HSIN Next Generation System shall provide authorized users the ability to remove contact lists.

957 2.3.1.3 Instant Messaging (IM)

The HSIN Next Generation System will provide an IM application.

The IM requirements for the HSIN Next Generation System are listed below:

- The HSIN Next Generation System shall provide real-time IM capability with presence sensing.
- The HSIN Next Generation System shall allow IM by user title or name.
- The HSIN Next Generation System shall allow end-users to perform searches on IM sessions.
 - The HSIN Next Generation System shall allow the end-users to have multiple IM windows open at the same time.
 - The HSIN Next Generation System shall allow the end-users to cut and paste text from or into an IM session.
 - The HSIN Next Generation System shall allow the end-users to print a discussion or dialogue from an IM.
- The HSIN Next Generation System shall record and retain all user communication via IM.
- The HSIN Next Generation System shall provide file transfer via IM.
- The HSIN Next Generation System shall encrypt text-based messaging in accordance with NIST standards.
- The HSIN Next Generation System shall allow end-users to create both persistent and temporary chat rooms.
- The HSIN Next Generation System Instant Messaging software clients shall meet all Section 508 Software (1194.21) provisions.
- 980 The HSIN Next Generation System shall comply with the Instant Messaging Standards of the 981 DHS Enterprise Portal Standards List, including:

982	_	Hypertext Transfer Protocol Secure (HTTPS)
983		Hypertext Transfer Protocol (HTTP)
984	_	HyperText Markup Language (HTML)
985	_	Multimedia Internet Message Extension (MIME)
986		Session Initiation Protocol (SIP)
987		Real-Time Protocol (RTP)
988	_	eXtensible Messaging and Presence Protocol (XMPP)
989 990	_	Internet Relay Chat (IRC)

2.3.1.4 Discussion Boards

The HSIN Next Generation System will provide a web forum function for all HSIN Next Generation System COIs. All HSIN Next Generation communities must be able to create their own discussion boards that are managed by COI administrators or approved users, who should be able to edit and remove threads and moderate community users. As part of the overall solution to information assurance, the threaded discussion will also carry the feature of discussion archival per all legal requirements of certain HSIN Next Generation System participating agencies.

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The discussion board requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall provide Discussion Board capabilities.
- The HSIN Next Generation System shall provide threaded discussion capabilities.
- The HSIN Next Generation System shall archive threaded discussions for not less than five years in accordance with minimum legal requirements of certain HSIN Next Generation System participating agencies.
 - The HSIN Next Generation System shall allow end-users to create new discussions as needed.
 - The HSIN Next Generation System shall allow authorized end-users to participate in existing discussions as role/permissions allow.
 - The HSIN Next Generation System shall allow end-users to filter discussion threads by thread attributes (e.g. topic, date).
 - The HSIN Next Generation System shall allow authorized end-users to remove discussion threads.
- The HSIN Next Generation System shall allow end-users to update discussion threads.
- The HSIN Next Generation System shall provide capabilities for archiving discussion threads.
- The HSIN Next Generation System shall allow for the end-users to post something on multiple discussion boards in one transaction (federated posting).
- The HSIN Next Generation System Discussion Boards shall meet all Section 508 provisions
 for web content.

The HSIN Next Generation System shall comply with the Message Board Standards of the DHS Enterprise Portal Standards List, including:
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2.3.1.5 Feedback

The feedback functionality within the HSIN Next Generation System is required to play a major role in the upkeep and maintenance of the HSIN Next Generation System usability and end-user relationships. This feedback feature must account for a process that involves a two-tier response system where all HSIN Next Generation System user feedback is vetted by the immediate COI administrators or approved users before being escalated to the HSIN Next Generation System Program Management level. The functionality of the feedback feature will be based on the system's integrated content management and workflow capabilities.

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The scope of the feedback feature must include, but not be limited to, the following types:

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Change requests

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- 1038 Service requests
- 1039 New functionality
- 1040 Bug fix
- 1041 Training request
 - General comments

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1046 1047 To support the handling of various types of feedback filtered through the HSIN Next Generation System, it must provide workflow actions and status reporting for all authorized HSIN Next Generation System end-user groups involved in the resolution process. At various intervals of events and status changes, the HSIN Next Generation System shall automatically notify feedback stakeholders of those changes and feedback responses.

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The feedback requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall provide a feedback workflow form.
- The HSIN Next Generation System shall ensure that the receipt of Feedback Forms shall be subject to role based access.
 - The HSIN Next Generation System shall allow end-users to manage and respond to feedback.
- The HSIN Next Generation System shall allow users to assign a numeric rating to document content, events, tools, and applications.
 - The HSIN Next Generation System shall allow users to filter by the assigned numeric rating.
 - The HSIN Next Generation System shall provide social book marking for users to view the internal and external web pages most popular with other users.
 - The HSIN Next Generation System forms shall allow people using assistive technology to access the information, field elements, and functionality required for completion and submission of the form, including all directions and cues.

2.3.1.6 Workflow Management

The HSIN Next Generation System will facilitate the automation of processes involving combinations of human and machine based activities; particularly those involving IT applications and tools.

To facilitate information exchange and collaboration between its end-users from various jurisdictions, the HSIN Next Generation System must be able to automate content processing transactions between users and/or communities that have established formal manual handling processes. Potential tasks and activities that would require automation support include, though not limited to, information submission, vetting, and validation.

The HSIN Next Generation System will be able to tag data with its source (author or agency). This original source tag will remain intact regardless of where the data may travel.

The HSIN Next Generation System will provide support for information exchange and tracking and the ability to capture and track community task lists. This function must entail the ability to track task list item details and the individuals assigned to the task, and report on task status and percentage complete when changed either manually or automatically due to a work flow. The task list must also enable HSIN Next Generation System COIs to prioritize a comprehensive list based on a set of attributes that can be sorted within a display.

The workflow management requirements for the HSIN Next Generation System are listed below:

• The HSIN Next Generation System shall provide workflow model capabilities for routing, action and closure.

• The HSIN Next Generation System shall provide the users with a visualization and textual equivalent of the process and organization structures within a workflow.

 • The HSIN Next Generation System will provide the users with reminders, deadlines, business rules and other common functionalities associated with workflows.

 • The HSIN Next Generation System shall provide monitoring and documentation of workflow process status, routing and outcomes.

 • The HSIN Next Generation System shall provide transactional support at COI level in line with COI business operations surrounding:

- Information Submission

Information Vetting

Information Validation

 • The HSIN Next Generation System shall provide a task list capability that is integrated with the work flow capabilities.

• The HSIN Next Generation System shall provide users with accessible online form creation.

The HSIN Next Generation System shall provide users the ability to save task lists.
 The HSIN Next Generation System shall provide users the ability to update task lists.

 • The Next Generation System shall provide users the ability to remove task lists they have created when authorized.

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1107 The HSIN Next Generation System shall provide users the ability to remove a task from task 1108 lists. 1109 The HSIN Next Generation System shall provide users the ability to share task lists they 1110 created with other users when authorized. 1111 The HSIN Next Generation System shall comply with the Business Process / Workflow 1112 Standards of the DHS Enterprise Portal Standards List, including Web Services for Business 1113 Process Execution Language (WS-BPEL) V2.x. 1114 1115 2.4 Situational Awareness 1116 2.4.1 Visualization 1117 Data visualization is the use of interactive, visual representations of abstract and non-abstract data to 1118 provide for decision support and situational awareness. Visualization provides user interactivity and 1119 dynamic visual representation. The user can modify the visualization in real-time, thus affording 1120 perception of patterns and structural relations in the abstract data in question. 1121 1122 The HSIN Next Generation System will support visualization tools to view data in graphical, geospatial 1123 and temporal views. It is the intent of DHS to implement geospatial, graphical, statistical, relational and 1124 temporal visualization tools as integrated components supporting an information design. These tools 1125 should provide the ability to visually display situational data in a geospatial manner and the ability to 1126 layer multiple types of situational data within the same graphical presentation. 1127 1128 The visualization requirements for the HSIN Next Generation System are listed below: 1129 1130 The HSIN Next Generation System shall display or provide access to situational data in a 1131 geospatial, tabular, graphic, or textual manner. 1132 The HSIN Next Generation System shall support graphical visualization tools. 1133 The HSIN Next Generation System shall support geospatial visualization tools. 1134 The HSIN Next Generation System shall support temporal view visualization tools. 1135 The HSIN Next Generation System shall comply with the Geospatial Standards of the DHS 1136 Enterprise Portal Standards List, including: 1137 Web Map Service (WMS) 1.1.1 1138 Web Terrain Service (WTS) 0.5 1139 Information Systems eXtensible Markup Language (IS XML) 1140 XML for Image and Map Annotation (XIMA v0.4) 1141 Wireless Communication Service (WCS) 1.0 1142 Web Feature Service (WFS) 1.0 1143

1144 2.4.1.1 Viewing Environment

The HSIN Next Generation System will provide an information and exchange environment to share and collaborate on data with multiple users. Users will be able to log into, navigate and edit data in the

environment. The viewing environment will support users working collaboratively on documents and data.

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1150 The viewing environment requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall allow the end-users to filter on the source of data to block if needed (such as a spam filter).
- 1154 The HSIN Next Generation System shall provide a homepage upon user logon.
 - The HSIN Next Generation System shall support the integration of visualization views into applications and information.
 - The HSIN Next Generation System shall provide navigation and controls on visualization views.
 - The HSIN Next Generation System shall allow users to select elements on visualization views.
 - The HSIN Next Generation System shall always display the current DHS national threat level and provide severity color codes for incident data analysis and display, in all views.

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2.4.1.2 Geospatial Information System (GIS) Mapping

DHS Preparedness Directorate commissioned the development of a geospatial-intelligence decision-support tool that maps real-time situation awareness information. The HSIN Next Generation System must support data gathering and data merging functions that supply data layers to, at a minimum, the DHS mandated GIS tool map intelligence.

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The GIS mapping environment requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall be compliant with the Homeland Security Geospatial Information Infrastructure (GII).
- The HSIN Next Generation System shall be designed in accordance with the DHS geospatial data model.
 - The HSIN Next Generation System shall allow end-users to use the display/map to create boundaries for data sharing.
 - The HSIN Next Generation System shall allow end-users to use a map to set the duration of displayed data.
 - The HSIN Next Generation System shall allow users to view a notification that data is about to expire.
 - The HSIN Next Generation System shall allow end-users to use the map to mark data for analysis.
- The HSIN Next Generation System shall allow end-users to recall data displayed on the map.
- The HSIN Next Generation System shall allow import and export of GIS layers.
 - The HSIN Next Generation System must provide GIS Mapping Common Service.

3 Non-Business Requirements

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3.1 Security / Information Assurance

The overall security objective of the HSIN Next Generation System is to ensure adequate protection of the Sensitive but Unclassified category of information shared and transmitted through the HSIN Next Generation System as mandated by DHS through policy guidance such as DHS Management Directive (MD) 4300A, DHS Secure Baseline Configuration Guidelines, and NIST Special Publication 800-53. While HSIN must conform to established technical security requirements, it must also achieve its mission goals of enabling and promoting information sharing among cross-component users by making data

available for access to authorized personnel.

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The general information assurance/security requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall comply with the security operating principles mandated in DHS MD 4300A.
- The HSIN Next Generation System shall provide network security monitoring capabilities in accordance with DHS MD 4300A.
 - The HSIN Next Generation System shall provide intrusion detections capabilities in accordance with DHS MD 4300A.
 - The HSIN Next Generation System shall comply with the Certification and Accreditation (C&A) policy in accordance with DHS MD 4300A.
- The HSIN Next Generation System shall provide an alert when suspicious users login.
- The HSIN Next Generation System shall provide an alert when users login from a suspicious Internet Protocol (IP) address.
- 1213 The HSIN Next Generation System shall block logins from IP addresses on block list.
- The HSIN Next Generation System shall provide virus protection capabilities in accordance with DHS MD 4300A.
 - The HSIN Next Generation System shall meet the FIPS PUB 199 rating of "High" for all categories.
 - The HSIN Next Generation System shall provide compartmentalized security in support of SBU information.
- The HSIN Next Generation System shall support multi-level security for compartmentalizing, labeling, and identifying multiple types of data classification.
- The HSIN Next Generation System shall provide access control across all templates, content, processes, and repositories for:
- 1224 Individual users
- 1225 Groups of users
- 1226 Individual directories/domains
- 1227 Subdirectories

1228 – Sites

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- The HSIN Next Generation System shall provide authorized users the ability to provide / revoke all privileges from a specified group or selected user(s).
 - The HSIN Next Generation System shall be able to prevent "expired" content from being viewed after the specified date and time.
 - **Note:** While posting data to the system, a user can set a date and time at which the data will no longer be available for use, because it will be removed from the system at that time.
 - The HSIN Next Generation System shall protect data against unauthorized access, modification, and withholding.
- The HSIN Next Generation System shall identify the source of the original document and the source of any changes.

3.1.1 Identity Management – Authentication and Authorization

- As part of the overall HSIN Next Generation System security objective, identity management must provide a comprehensive, process-oriented approach to the consolidation of identity data and deployment across the DHS enterprise and Federal, State, Local, Tribal, Territorial, Private Sector and International partners. Authentication and authorization processes and standards are included in this objective.
- Authorization of the HSIN Next Generation System end-users should be comprised of user management functions that support the definitions of user communities, roles, and related system privileges. Access control within the system must be designed to enforce the principle of least privilege in accordance to user type and security level. The HSIN Next Generation System controls must be designed to ensure that each user is authenticated before access is permitted.
 - The authentication and authorization requirements for the HSIN Next Generation System are listed below:
 - The HSIN Next Generation System shall provide the capabilities to authenticate the identity of users accessing the system.
 - The HSIN Next Generation System shall use E-Authentication to authenticate the identity of users accessing the system.
 - The HSIN Next Generation System shall provide authentication capabilities in accordance with DHS MD 4300A.
 - The HSIN Next Generation System shall complete user authentication using HSPD-12 guidance.
 - The HSIN Next Generation System shall leverage the HSPD-12 compliant, DHS Single Sign-On (SSO) defined authentication methodology.
 - The HSIN Next Generation System shall store user authentication credentials in the user repository.
- The HSIN Next Generation System shall only transmit user authentication credentials in an encrypted form.
- The HSIN Next Generation System shall ensure that all remote devices and external systems use NIST-compliant authentication mechanisms when accessing system resources.

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- The HSIN Next Generation System shall provide control of access to system resources (content, registries and repositories).
- The HSIN Next Generation System shall indicate requested access is denied if roles, securities, and policies are not met.
- The HSIN Next Generation System shall grant a user access to system content only if the user has been authorized to access the content.
 - The HSIN Next Generation System shall enforce the principle of least privilege in accordance with user type and security level.
 - The HSIN Next Generation System shall provide a time out capability.
- 1280 The HSIN Next Generation System shall notify the user and give sufficient time (30 seconds) to indicate more time is required.
 - The HSIN Next Generation System shall control interactions between users and content to ensure confidentiality.
 - The HSIN Next Generation System processes (i.e., workflows) shall run as a defined username and associated role.
 - The HSIN Next Generation System shall not be dependent on hard-coded usernames (usernames shall not indicate the role of the user).
 - The HSIN Next Generation System shall share user identification/authentication functionality with all services.
 - The HSIN Next Generation System shall be PKI-enabled⁶ to support access by individual users with valid PKI certificates in accordance with FIPS PUB 201 and HSPD-12.
 - The HSIN Next Generation System shall provide alternate credential (certificate or token) association process.
 - Note: These credentials must be verified and validated by HSIN Next Generation System in accordance with the credential issuer policies.
 - The HSIN Next Generation System shall provide two factor authentication as defined by OMB M06-16 and DHS MD 4300A.

3.1.2 Password Management

The HSIN Next Generation System will have a robust password management system. The password management system will allow system administrators to operate, regulate and maintain the passwords of all HSIN Next Generation System users. The password management system will allow for automated password management such as expiration notices and password renewal ability. The Password Management capability will comply with the DHS MD 4300A.

The password management requirements for the HSIN Next Generation System are listed below:

• The HSIN Next Generation System shall provide user/user group password management capabilities.

⁶ "PKI" stands for "Public Key Infrastructure."

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11 March 2008 The HSIN Next Generation System shall provide username and password management 1310 1311 facilities such that: - User name length are enforced 1312 1313 Password length and composition are enforced 1314 Password changes are enforced after defined periods 1315 Password changes are enforced after first use, in accordance with DHS MD 4300A 1316 The HSIN Next Generation System shall provide an interactive mechanism to automatically reset a forgotten or lost password or associated newly issued alternate credential (certificate or 1317 1318 token) without going through the help desk. The HSIN Next Generation System shall allow Service/Agency level policy option to disable 1319 1320 username and password credentials after alternate credential (certificate or token) association is 1321 performed on account. 1322 The HSIN Next Generation System shall provide an automatic mechanism for alerting users 1323 of their password expiration. 1324 The HSIN Next Generation System shall allow self provisioning of passwords. 1325 1326 3.1.3 Encryption 1327 The HSIN Next Generation System encryption will provide secure and private communications between 1328 users. The encryption will be used on prescribed applications to ensure the integrity of the data 1329 transmitted through the system. 1330 The encryption requirements for the HSIN Next Generation System are listed below: 1331 1332 1333 The HSIN Next Generation System shall be capable of encrypting content. 1334 The HSIN Next Generation System shall be capable of managing encrypted content. The HSIN Next Generation System shall use only Advanced Encryption Standard (AES) 1335 1336 algorithms that have been validated under FIPS PUB 140-2 or National Security Agency (NSA) Type 2 or Type 1 encryption for protecting sensitive information. 1337 The HSIN Next Generation System shall use only cryptographic modules that have been 1338 1339 validated in accordance with FIPS PUB 140-2. 1340 The HSIN Next Generation System shall use the AES in accordance with FIPS PUB 197. 1341 1342 3.1.4 Audit Trail 1343 Each user of the HSIN Next Generation System is to be individually accountable for his or her actions 1344 while using the system. System auditing tools will provide the ability to track a user's activities. Audit 1345 trails maintain a record of system activity by system or application processes by individual user activity. 1346 1347 The HSIN Next Generation System will collect, store and distribute operating requests to repudiate 1348 content registries and repositories. The audit process will allow for transaction accounting and review of 1349 all content and user activity. This capability enables an authorized user to follow a user/content 1350 throughout the session. Examples include; download activity, page view activity, tool usage, session

durations and contributions.

The audit trail requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall provide security audit capabilities as stated in DHS MD 4300A.
- The HSIN Next Generation System shall be able to audit all user activity.
- 1358 The HSIN Next Generation System shall be able to audit all administrative activity.
- The HSIN Next Generation System shall have the ability to track which users have accessed selected content material.
- The HSIN next Generation System shall provide the capability for intelligence analysis of audit records.
 - The HSIN Next Generation System shall provide and auditing mechanism that can handle process flows across multiple services.
 - The HSIN Next Generation System shall provide an end-to-end audit trial of all services accessed across the business processes.
 - The HSIN Next Generation System shall provide account audits to include entry points.
 - The HSIN Next Generation System shall be able to audit all of the changes made to any portal content accessed through the system.
 - The HSIN Next Generation System shall allow the end-users to refuse any or all cookies without affecting the basic usability of the system.
 - The HSIN Next Generation System shall provide authorized users the ability to retrieve and review system audit logs.
 - The HSIN Next Generation System shall provide an audit history for the posting of all content to the system.
 - The HSIN Next Generation System shall retain audit logs as required in subsection 3.2.5, Data Retention.

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3.1.5 Reporting

The reporting requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall allow authorized end-users to build complex or simple system queries.
- The HSIN Next Generation System shall have the capability to store a report generation query and presentation templates for repeated execution.
 - The HSIN Next Generation System shall restrict access to saved report queries to approved users or groups of users.
 - The HSIN Next Generation System shall have the ability to generate and view a report of content based on metadata elements.
 - The HSIN Next Generation System shall allow the user to access the content directly from the report.

HSIN Next Generation Attachment J-2

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- The HSIN Next Generation System shall be capable of integrating with external commercial reporting tools that allow analysis and representation of results graphically.
 - The HSIN Next Generation System shall provide configurable reporting functions to endusers across all repositories with forms of content that can be restricted by security and access rights.
 - The HSIN Next Generation System shall provide the report design capability for users to create and build customized reports.
 - The HSIN Next Generation System shall allow end-users to add graphs, bitmaps or tables to the reports.
 - The HSIN Next Generation System shall allow for sharing of reports among a specified workgroup, user(s) or all system.
 - The HSIN Next Generation System shall allow previewing of a report before printing.
 - The HSIN Next Generation System shall allow for batch scheduling of reports.
 - The HSIN Next Generation System shall automatically attach reports and distribute via each to specified end-users.
 - The HSIN Next Generation System shall report on all data (users, privileges, metadata schemas, workflows, reports, queries, versions, etc)..
 - The HSIN Next Generation System shall provide an ad-hoc reporting facility to allow users to specify parameters and produce reports based on the contents of any selection of the information made available by any portals.
 - The HSIN Next Generation System shall allow end-users to add text equivalents for graphs, bitmaps including row, column and table header tags to tables to reports.

3.2 Infrastructure

The HSIN Next Generation System infrastructure will be built to support the mission needs of DHS and the COIs. The infrastructure must support availability, reliability, maintainability and survivability performance requirements. To ensure greater stability and recovery in the event of an incident the HSIN Next Generation System infrastructure will be redundant and geographically diverse between the primary and backup sites.

The HSIN Next Generation System infrastructure will consist of heterogeneous, distributed resources based on COTS hardware and software components. Within the context of this document the infrastructure includes physical components required to host and facilitate communication between users of the software components. Infrastructure also includes providing the resources to host applications developed for HSIN Next Generation users.

The infrastructure requirements for the HSIN Next Generation System are listed below:

- The HSIN Next Generation System shall have an enhanced backup/restore mechanism which will allow the restoration of all system components.
- The HSIN Next Generation System shall be physically hosted at DHS Data Center, which
 include Government owner, Government operated, and contractor owned and contractor operated,

- at no less than two geographically-separated data centers. (The locations of these geographicallyseparated data centers shall be at the sole discretion of DHS).
- The HSIN Next Generation System shall provide an Open API capability.
- The HSIN Next Generation System shall provide a database interface capability.
- HSIN Next Generation System shall deliver a developed and tested low bandwidth version of
 the Next Generation HSIN System.

1441 3.2.1 Availability, Reliability, and Maintainability

- Operational availability of minimal essential sustained and survivable mission capability for the HSIN
- Next Generation System is a primary factor in the performance criteria. The systems must be available
- and at all times, including when the national infrastructure is stressed or degraded and shall support full
- capability during Continuity of Operation Plan (COOP) Plan conditions. Therefore, it is essential that the
- Next Generation System exhibit high, measurable availability and reliability, and consistent performance.

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1448 **3.2.1.1 Availability**

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- 1449 HSIN is considered operational when users can successfully log-on to any COI site, access the COP, and
- can collaborate and communicate via one or more of the following methods: instant messaging, alerts,
- and discussion groups. The following definitions provide additional details regarding the severity of
- outages that impact operational availability. These definitions are currently used to categorize HSIN
- 1453 system severity levels.
- 1455 <u>Catastrophic Failure</u>: An incident that causes total loss of all HSIN services. Users are prevented from
- performing tasks necessary for mission critical operations. Failure requires immediate resolution as the
- 1457 complete system cannot be used until the repair has been made.
- 1458 Failure: An incident that causes total loss of functionality for one of the HSIN services and severely
- 1459 affects system use. The problem is of a time-sensitive nature. While it does not cause a complete work
- stoppage, no workaround is available and operational activities can only continue in a restricted fashion.
- Alternatively, it may be a "critical failure" for which a customer-acceptable workaround exists.
- 1462 **Issue:** An incident during which the system is operational but one or more components are operating
- differently than expected. It does not result in a failure, but causes the system to produce incorrect,
- incomplete, or inconsistent results, or impairs system usability.
- 1465 **Incident:** A defect that causes system degradation or loss of non-critical business functionality. This
- 1466 includes degradation of expected system response times for a particular tool to the extent that operational
- activities suffer. The defect does not cause a failure or impair usability, and the desired processing results
- are easily obtained by working around the defect.
- 1469 **Routine Problem:** A problem that is commonly resolved within the span of a Help Desk call or quickly
- resolved following the call. If there is a defect, it is the result of non-conformance to a standard, related
- 1471 to the aesthetics of the system, or a request for an enhancement. A defect at this level may be deferred or
- even ignored at the discretion of DHS. It can be resolved in a future system update or not at all.

1474 The availability requirements for the HSIN Next Generation System are listed below:

• The HSIN Next Generation System shall meet an operational availability of 99.99% throughout the calendar year.

1479 3.2.1.2 Reliability

1480 The HSIN infrastructure will maintain reliability during peak demand or periods of stress. Vendors have 1481 the flexibility to distribute the HSIN Next Generation System load across sites; however, this peak 1482 volume demand (or multiple national level events) does not in any way alleviate the system's reliability 1483 requirements.

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The reliability requirements for the HSIN Next Generation System are listed below:

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The HSIN Next Generation System shall function such that failure or removal of any component or item in the system does not cause a failure to any other component(s) or item(s).

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3.2.1.3 Maintainability

Maintenance and support concepts and requirements need to be developed and established as early as possible during system design and development, including accessibility, diagnostics, repair, and sparing for all maintenance levels. Maintenance includes Operational and Depot Levels, with Intermediate Level Maintenance included, if applicable. Requirements for manpower factors that impact system design, such as maintenance ratios, will be identified during an early phase.

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Repair and maintenance criteria need to be established for all applicable levels in terms of time, accuracy, built-in-test, testability, availability, reliability, maintainability, support equipment requirements (including automatic test equipment), and manpower skills, knowledge and abilities. Software maintenance includes, but may not be limited to, source, maintainability, recoverability coding, and transition planning. Life-cycle cost will play a key role, and support/maintenance concepts will incorporate a balance between readiness and life-cycle cost.

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The maintainability requirements for the HSIN Next Generation System are listed below:

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The HSIN Next Generation System shall be configured to allow the removing, repairing, and replacing equipment without the need to remove additional system equipment.

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The HSIN Next Generation System shall allow tool and application updating without a change of infrastructure.

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3.2.2 Survivability

1512 1513 The HSIN Next Generation System will remain operational during and following a system or environmental disturbance. This requires resources reconstituted in time or failover in place.

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The survivability requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall exhibit failover redundant data systems within 60 seconds of a component failure with no loss of stored data.
- 1519 The HSIN Next Generation System shall maintain COOP functionality in support of a 1520 minimum of three concurrent national level events.

1522 **3.2.3 Performance**

The HSIN Next Generation System performance requirements describe the functional capability and user capacity of the system. The capabilities and user capacity help define characteristics of the system that support the mission and other major functional areas.

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The performance requirements for the HSIN Next Generation System are listed below:

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Note: The time requirements below do not consider network latency, due to that being dependent upon the users connection and is out of the systems control.

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• The HSIN Next Generation System shall distribute and/or support the distribution of key information to the end-users within 30 minutes of request for key information.

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• The HSIN Next Generation System shall update posted content with changes within (1) minute of being posted by the end-user.

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• The HSIN Next Generation System shall have a page render time of (10) seconds.

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• The HSIN Next Generation System shall provide search results in (15) seconds.

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• The HSIN Next Generation System shall make available content within one (1) minute of being posted by the end-user.

The HSIN Next Generation System shall process user login in (10) seconds.

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The HSIN Next Generation System shall make available decisions within fifteen (15) minutes of being entered by a user. (**Note:** A decision is defined as any communication to the user in the form of alerts, files, reports, or other content types).

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• The HSIN Next Generation System shall provide synchronous services to consumers at the time that they are requested (i.e., the services must be up and running).

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3.2.4 Scalability

1548 1549 1550 The HSIN Next Generation will be designed to facilitate consistent and graceful expansion. The system will be capable of maintaining momentum on Federal, State, Local, Tribal, Territorial, Private Sector and International partners subscription expansion.

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The scalability requirements for the HSIN Next Generation System are listed below:

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• The HSIN Next Generation System shall be able to sustain normal DHS operations during three concurrent national level events.

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• The HSIN Next Generation System shall support at least two million unique user accounts.

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• The HSIN Next Generation System shall support at least 120,000 concurrent, active users.

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3.2.5 Data Retention

- The OPS Records Manager is working HSIN Program Management personnel to request records
- disposition schedules and coordination of those schedules with the National Archives and Records
- 1562 Administration (NARA) for the HSIN Next Generation System. In accordance with the signed Privacy
- 1563 Impact Assessment (PIA), dated 22 June 2007, the HSIN Next Generation System will operate in
- 1564 accordance with NARA guidance.

The general data retention requirements, based on current guidance, for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall retain audit logs on-line for 90 days.
- The HSIN Next Generation System shall retain audit logs off-line for 7 years.
- The HSIN Next Generation System shall retain data in accordance with the retention schedules of each community, not to exceed on-line retention beyond 90 days and off-line retention beyond 7 years.
- The HSIN Next Generation System shall provide the capability for content to be tagged for review, based on content metadata fields.
 - The HSIN Next Generation system shall provide the capability for content to be tagged for retention, based on content metadata fields.
 - The HSIN Next Generation system shall provide the capability for content to be tagged for disposition, based on content metadata fields.

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3.2.6 Usability

The HSIN Next Generation System interfaces and functions will be designed for ease-of-use at all levels.

All functionality and toolsets offered through the HSIN Next Generation system will be accessible to all users.

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The usability requirements for the HSIN Next Generation System are listed below:

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• The HSIN Next Generation System shall provide page identification at the top of each page within the portal.

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allow users to track where they are in the system hierarchy at all times.

• The HSIN Next Generation System navigational breadcrumbs shall be active hyperlinks to

The HSIN Next Generation System shall provide "breadcrumbs" during system navigation to

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facilitate navigation between pages.
 The HSIN Next Generation System shall be display-configurable to allow for different

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resolutions on user workstation desktops.

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• The HSIN Next Generation System shall be display-configurable to allow for use preferences for fonts and colors on user workstation desktops.

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• The HSIN Next Generation System shall provide detailed context-sensitive error messages.

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• The HSIN Next Generation System shall provide an easily recognizable logout button to enable a quick and graceful exit from the system.

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• The HSIN Next Generation System shall provide HSIN online user guides.

1602 1603 1604 • The HSIN Next Generation System shall provide tutorials, context sensitive help files (web-based/indexed/searchable), user guide (printable), feedback mechanisms, password reset process, and Frequently Asked Questions (FAQs).

- The HSIN Next Generation System shall provide a system Help page.
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- The HSIN Next Generation System shall provide administrative tools.

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- The HSIN Next Generation System shall provide a link to the homepage that is available to the user at all times.
 - The HSIN Next Generation System shall provide a context-sensitive help link that is available to the user at all times.
- The HSIN Next Generation System shall allow users to view author of each page/community/ portal.
 - The HSIN Next Generation System shall allow users to create communities/events automatically.

3.3 Interoperability / Integration

- The HSIN Next Generation system will be the hub connecting the DHS community and their information sharing networks and applications for all Federal, State, Local, Tribal, Territorial, Private Sector and International partners engaged in preventing, protecting from, responding to and recovering from all threats, hazards and incidents within the authority of DHS. Interoperability and system integration is a key component to the realization of such a connection. There are several allied networks and programs that serve, support, or leverage HSIN for the COIs.
- The interoperability/integration requirements for the HSIN Next Generation System are listed below: 1625
 - The HSIN Next Generation System shall be interoperable with all DHS agencies SBU networks, at the same security level or below.
 - The HSIN Next Generation System shall be interoperable with the U.S. Community Emergency Response Team.
- The HSIN Next Generation System shall serve as a host platform to the COP application.
- The HSIN Next Generation System shall provide data to the COP application.
- The HSIN Next Generation System shall be interoperable with Department of Justice (DoJ) systems that provide information sharing that aligns with HSIN objectives.
 - The HSIN Next Generation System shall be interoperable with the National Infrastructure Coordination Center (NICC) systems that provide information sharing that aligns with HSIN objectives.
 - The HSIN Next Generation System shall be interoperable with the NPPD systems that provide information sharing that aligns with HSIN objectives.
 - The HSIN Next Generation System shall support Security Assertions Markup Language (SAML) 2.0 in order to interoperate with other systems.
- The HSIN Next Generation System shall be interoperable with systems of other Federal agencies that share the same technology standards as HSIN.
- The HSIN Next Generation System shall be capable of sharing situational data with a GIS tool.
- The HSIN Next Generation System shall provide workflow capability for disparate HSIN communities to submit and vet data.
- The HSIN Next Generation System shall be accessible from any encryption-capable web browser.

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- The HSIN Next Generation System shall be Internet Protocol, version 6 (IPv6) compatible/compliant.
- The HSIN Next Generation System shall allow all authorized users to log onto the system from any internet-accessible computer.
 - The HSIN Next Generation System shall use a communication channel to interoperate with external systems. The channel shall be independent of the technology used by either system.
 - The HSIN Next Generation System shall be able to provide data to Homeland Secure Data Network (HSDN).
 - The HSIN Next Generation System shall provide a way to assure external systems and users that it is authentically the HSIN Next Generation System.
 - The HSIN Next Generation System shall comply with the Electronic Mail Server Standards of the DHS Enterprise Portal Standards List.
 - The HSIN Next Generation System shall comply with the Web Server Standards of the DHS Enterprise Portal Standards List.
 - The HSIN Next Generation System shall comply with the Application Server Standards of the DHS Enterprise Portal Standards List.
 - The HSIN Next Generation System shall comply with the Database Access Service Standards of the DHS Enterprise Portal Standards List.
 - The HSIN Next Generation System shall comply with the Security Standards of the DHS Enterprise Portal Standards List.

3.4 Regulations and Compliance

Information coordination referred below includes information gathering, processing, dissemination, sharing and archiving and all other record management practices involving information maintained and exchanged through the HSIN Next Generation System.

The regulation and compliance requirement for the HSIN Next Generation System is listed below:

- The HSIN Next Generation System shall be compliant with the Code of Federal Regulations (CFR) Part 23.
- The HSIN Next Generation System shall be compliant with the Homeland Security Enterprise Architecture (HLS EA), February 2007.
- The HSIN Next Generation System hardware or software shall be compliant with the HLS EA Technical Reference Model (TRM) Standards and Products Profile.
- The HSIN Next Generation System shall be compliant with the Assessment of The Policy and Strategy Framework for the HSIN, dated 25 October 2006.

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3.4.1 Legal Compliance

- 1687 The HSIN Next Generation System users involved in the information coordination process discussed
- below are subject to the Federal, State, Local, Tribal, Territorial, Private Sector and International
- government information management, privacy, public disclosure (or "sunshine") statutes and regulations
- 1690 of their jurisdictions. Compliance with all applicable laws and regulations is a non-delegable

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responsibility of individual users and the agencies to which they belong. Some representative examples of the types of statutes and regulations applicable include, but are not limited to: 5 U.S.C. Part 552, The Freedom of Information Act; 5 U.S.C. Part 552b, The Privacy Act of 1974 (as amended); 28 C.F.R. Part 23, Criminal Intelligence System Operating Policies; Executive Order 12333, United States Intelligence Activities, amended by Executive Order 13355 27 Aug 04; and DoD 5240.1, DoD Intelligence Activities that Affect United States Persons. These laws and regulations are only applicable to the extent that they apply to a particular agency, entity or individual using the HSIN Next Generation.

The HSIN Next Generation System communities provided for the exclusive use of the Sector Coordinating Councils (SCCs) and their designees may only be used for purposes authorized by the United States Government in conjunction with the SCC, which serves as exclusive proprietary owner and steward of the information residing within those HSIN Next Generation System communities. The Government may monitor and audit the usage of the SCC communities to ensure the security of the network and to prevent its use for any purpose that constitutes a violation of law. Use of SCC HSIN Next Generation System communities and the information contained therein is governed by the procedures and requirements of the respective SCCs.

3.4.2 HSIN Third-Party Rule

Information reported or posted by a Federal, State, Local, Tribal, Territorial, Private Sector and International partners may be coordinated among the applicable communities to which it was reported or posted, but remains in the "custody and exclusive control" of the source submitter. Such information is subject to limitations on use/dissemination imposed by the reporting/posting source privacy and information release requirements imposed by law or regulatory policy.

The HSIN Third-Party Rule requirement for the HSIN Next Generation System is listed below:

The HSIN Next Generation System shall release data among sectors upon receipt of an indication that the data owner (such as a COI) has deemed it releasable.

3.4.3 Protection of Privacy and Proprietary Information

Other than the Federal, State, Local, Tribal, Territorial, Private Sector and International partner users that are directly subject to the privacy and information requirements imposed by the laws and policies of their jurisdictions, no HSIN Next Generation System user shall be afforded access to privacy or proprietary record information obtained within the HSIN Next Generation System. Private sector information which may be proprietary or otherwise sensitive will be managed in compliance with all security and safeguarding provisions imposed by law and/or as agreed upon between the applicable private sector entities and the source agency.

The HSIN Next Generation System will enable users to indicate whether the information contains any personally identifiable information. All data assets and information exchanges that contain personally identifiable information will be submitted to the DHS Privacy Office for review and approval for privacy compliance, including the Privacy Act, E-Government Act, Homeland Security Act, and DHS Privacy Policies prior to inclusion in HSIN.

The Protection of Privacy and Proprietary Information requirement for the HSIN Next Generation System is listed below:

• The HSIN Next Generation System shall provide protection for privacy or proprietary record information obtained within the system from unauthorized users.

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- The HSIN Next Generation System shall audit the actual use of Personally Identifiable Information (PII) to demonstrate compliance with all of the applicable principles and privacy protection requirements.
- The HSIN Next Generation System shall comply with the Federal Information Security
 Management Act (FISMA).
- 1745 The HSIN Next Generation System shall comply with the National Institute of Standards and Technology (NIST) FIPS.
- The HSIN Next Generation System shall comply with the E-Government Act of 2002.
- The HSIN Next Generation System shall comply with the OMB Circular A-11.
 - The HSIN Next Generation System shall comply with the NIST 800-60.
- The HSIN Next Generation System shall comply with the Code of Federal Regulations 6 CFR
 Part 5, Subpart B, Privacy Act.
 - The HSIN Next Generation System shall comply with DHS Management Directive (MD) 0470.1.
 - The HSIN Next Generation System shall be able to identify Personally Identifiable Information (PII) either through automated means or through user action.
 - The HSIN Next Generation System shall be able to identify by both by specific user and user groups who has accessed, amended, distributed, or deleted each piece of PII.
 - The HSIN Next Generation System shall be able to lock user accounts, if privacy training has not been completed within one year.
 - The HSIN Next Generation System shall be able to track who and when the inclusion of new datasets that contain PII was approved.

Disclaimer: The compliance policies and rules concerning information coordination are not intended to create or confer any right, privilege or benefit to any private person including any person in litigation with the United States or any agency or individual using the HSIN Next Generation System.

3.4.4 Accessibility

Section 508 of the Rehabilitation Act (29 U.S.C. 794d), as amended, requires that when Federal agencies develop, procure, maintain or use electronic and information technology (EIT), they must ensure that it is accessible to people with disabilities. Federal employees and members of the public who have disabilities must have access to and use of information and services that are comparable to the access and use available to non-disabled Federal employees and members of the public.

The accessibility requirements for the HSIN Next Generation System were derived from the DHS MD 4010.2, Section 508 Program Management Office & Electronic and Information Technology Accessibility, dated 26 October 2005.

The accessibility requirements for the HSIN Next Generation System are listed below:

DHS has identified the following applicable standards from the Electronic and Information
Technology Accessibility Standards (Section 508) 36 CFR 1194.31: Functional Performance Criteria

- The HSIN Next Generation System shall provide at least one mode of operation and information retrieval that does not require user vision, or support for assistive technology used by people who are blind or visually impaired shall be provided.
 - Note: This includes full keyboard-only access for all functions of the system.
 - The HSIN Next Generation System shall provide at least one mode of operation and information retrieval that does not require visual acuity greater than 20/70 that must be in audio and enlarged print output working together or independently, or support for assistive technology used by people who are visually impaired shall be provided.
 - The HSIN Next Generation System shall provide at least one mode of operation and information retrieval that does not require user hearing, or support for assistive technology used by people who are deaf or hard of hearing.
 - The HSIN Next Generation System shall provide, where audio information is important for the use of the product, at least one mode of operation and information retrieval in an enhanced auditory fashion, or support for assistive hearing devices.
 - The HSIN Next Generation System shall provide at least one mode of operation and information retrieval that does not require user speech, or support for assistive technology used by people with disabilities.
 - The HSIN Next Generation System shall provide at least one mode of operation and information retrieval that does not require fine motor control or simultaneous actions and that is operable with limited reach and strength.
 - The HSIN Next Generation System shall provide support for assistive technology such as tracking focus, providing user-controlled keyboard or automatic navigation (focus control) to updated content, to ensure the updated information is available to users who are blind or have low vision disabilities comparable to access by users without disabilities.

DHS has identified the following applicable standards from the Electronic and Information Technology Accessibility Standards (Section 508) 36 CFR 1194.22: Web-based intranet and internet information and applications

- The HSIN Next Generation System shall present a text equivalent for every non-text element (e.g., via "alt", "longdesc", or in element content).
- The HSIN Next Generation System shall support the capabilities to synchronize equivalent alternatives for any multimedia presentation with the presentation.
 - Note: All Web-based multimedia must also comply with the item 5 ("Video and Multimedia Technical Requirements") of the matrix in the MD 4010.2 Section 508 Program Management Office & Electronic and Information Technology.
- The HSIN Next Generation System shall present Web pages such that all information conveyed with color is also available without color, for example from context or markup.
- The HSIN Next Generation System shall provide the ability to organize documents so they are readable without requiring an associated style-sheet.
 - The HSIN Next Generation System shall present data tables in such a way that identifies the row and column headers for data tables.

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- 1823 The HSIN Next Generation System shall present markup to associate data cells and header cells for data tables that have two or more logical levels of row or column headers.
 - The HSIN Next Generation System shall provide the ability to title all frames with text that facilitates frame identification and navigation.
 - The HSIN Next Generation System shall support the ability for all pages to be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55Hz.
 - The HSIN Next Generation System shall use a standard interface that is accessible to both users with and without disabilities with rare exception.
 - Note: Upon rare exception with DHS approval, providing a text-only page with equivalent information or functionality may be permitted to make a web site accessible, when accessibility and conformance of this requirement cannot be accomplished in any other way.
 - The HSIN Next Generation System shall ensure that the content of the text only page shall be updated whenever the primary page changes.
 - The HSIN Next Generation System shall provide the capabilities for the information provided by the script to be identified with functional text that can be read by assistive technology.
 - The HSIN Next Generation System shall allow users to use assistive technology to access the information, field elements, and functionality required for completion and submission of electronic forms that are designed to be competed on-line, including all directions and cues.
 - The HSIN Next Generation System shall provide a method that permits users to skip repetitive navigation links.

DHS has identified the following applicable standards from the Electronic and Information Technology Accessibility Standards (Section 508) 36 CFR 1194.41: Information, Documentation, and support

- The HSIN Next Generation System shall provide Web-based (HTML) product training, support and help documentation to the end users identified in 36 CFR 1194.31 (Functional Performance Criteria) of the MD 4010.2 Section 508 Program Management Office & Electronic and Information Technology, which must comply with the 36 CFR 1194.22 (Web-based Technical Requirements) of the MD 4010.2 Section 508 Program Management Office & Electronic and Information Technology.
- The HSIN Next Generation System shall provide support services for products that accommodate the communication needs of end-users with disabilities.

DHS has identified the following applicable standards from the Electronic and Information Technology Accessibility Standards (Section 508) 36 CFR 1194.21: Software Applications and operating systems

- The HSIN Next Generation System shall support the ability for product functions to be executable from a keyboard where the function itself or the result of performing a function can be discerned textually.
- The HSIN Next Generation System shall provide/use applications that do not disrupt or disable activated features of other products that are identified as accessibility features, where those features are developed and documented according to industry standards.

- The HSIN Next Generation System shall provide/use applications that do not disrupt or disable activated features of any operating system that are identified as accessibility features where the application programming interface for those accessibility features has been documented by the manufacturer of the operating system and is available to the product developer.
 - The HSIN Next Generation System shall provide a well defined on-screen indication of the current focus that moves among interactive interface elements as the input focus changes.
 - The HSIN Next Generation System shall provide a well defined on-screen indication of the current focus that is programmatically exposed so that assistive technology can track focus and focus changes.
 - The HSIN Next Generation System shall provide sufficient information about the user interface including the identity, operation and state of the element to assistant technology.
 - The HSIN Next Generation System shall provide the information conveyed by images representing program elements in text.
 - The HSIN Next Generation System shall provide a consistent assigned meaning of images throughout an application's performance, when bitmap images are used to identify controls, status indicators, or other programmatic elements.
 - The HSIN Next Generation System shall provide textual information through operating system functions for displaying text, which includes text content, text input caret location, and text attributes at a minimum.
 - The HSIN Next Generation System shall provide applications that do not override user selected contrast and color selections and other individual display attributes.
 - The HSIN Next generation System shall display animation in at least one non-animated presentation mode at the option of the user.
 - The HSIN Next generation System shall convey information that indicates an action, prompts a response, or distinguishes a visual element, without the use of color coding.
 - The HSIN Next Generation System shall provide a variety of color selections capable of producing a range of contrast levels, for use when a product permits users to adjust color and contrast settings.
 - The HSIN Next Generation System shall not use flashing or blinking text, objects or other elements having flash or blink frequency greater than 2 Hz and Lower than 55 Hz.

DHS has identified the following applicable standards from the Electronic and Information Technology Accessibility Standards (Section 508) 36 CFR 1194.24: Video and multimedia products.

- The HSIN Next Generation System shall provide the ability for open or closed caption for any multimedia, regardless of format that contain speech or other audio information necessary for the comprehension of the content.
- Note: For the purposes of this requirement, closed or open captioning will mean the inclusion of synchronized equivalent text embedded within a presentation that permits user selectable controls to turn the feature on-off unless permanent.
- The HSIN Next Generation System shall support audio described for any multimedia, regardless of format that contain speech or other audio information necessary for the comprehension of the content.

• The HSIN Next Generation System shall allow the end-users to select the display or presentation of alternate text presentation or audio descriptions, unless permanent.

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• The HSIN Next Generation System shall allow the end-users to select the display or presentation of alternate text presentation or audio descriptions, unless permanent.

1910 3.5 Quality Measurement and Monitoring

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The HSIN Next Generation System will be able to monitor and evaluate its effectiveness to satisfy user needs. The system will capture and generate meaningful reports of statistical metrics. These reports will be dynamic and configurable and shall be accessible to all authorized users. Formal systemic measures of usage, health and content will be an integral component of the HSIN Next Generation System.

The quality measurement and monitoring requirements for the HSIN Next Generation System are listed below:

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 The HSIN Next Generation System shall provide measurement, storage, and reporting of usage, health and content statistics on a periodic basis as specified by an authorized user.
 - The HSIN Next Generation System shall provide metrics on demand, when requested by an authorized user.
- The HSIN Next Generation System shall generate detailed statistical reports.
- The HSIN Next Generation System shall time-tag all portal transactions.
- 1925 The HSIN Next Generation System shall provide statistics concerning portal usage.
- The HSIN Next Generation System shall provide a dashboard for metrics.
- 1927 The HSIN Next Generation System shall provide business intelligence or other tools to graphically depict metrics.

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3.5.1 User and Usage Metrics

User and usage metrics characterize how the end-users are interacting with the HSIN Next Generation System.

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The user and usage metrics requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall provide user metrics defining the number, type, specific permissions granted and current state of user accounts.
- The HSIN Next Generation System shall track these metrics to provide snapshots of the health and activity of the system's user base.
 - The HSIN Next Generation System shall provide usage metrics to track the number of documents created, the number and percentage of documents shared, and the number and percentage of documents unused.
 - The HSIN Next Generation System shall provide daily average unique user metric.
 - The HSIN Next Generation System shall provide number of users metric.
- The HSIN Next Generation System shall provide user and usage metrics, which will be available to owners or administrators directly on the page.

1948 3.5.2 System Health Metrics

1949 System health metrics will describe and characterize the operational state of the HSIN Next Generation 1950 System.

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The system health metrics requirements for the HSIN Next Generation System are listed below:

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The HSIN Next Generation System's health metrics shall be tailored to allow system administrators to quickly discern any significant degradation of the system's infrastructure.

1956 The HSIN Next Generation System's health metrics shall record and make available the 1957 unplanned system downtime in hours for any of the services provided by the HSIN Next 1958 Generation System.

- The HSIN Next Generation System's health metrics shall record and make available the average number of hours to resolve emergency service requests for any of the services provided by the HSIN Next Generation System.
- The HSIN Next Generation System shall provide system health metrics including uptime, downtime, data throughput, number of concurrent users, throughput rates and mean time between failures.

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3.5.3 Content Metrics

The HSIN Next Generation System will track metrics related to the subscription and access of the system's informational content. Tracking content metrics will enable system administrators to detect trends in content usage to enhance throughput for high-traffic areas.

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The content metrics requirements for the HSIN Next Generation System are listed below:

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- The HSIN Next Generation System shall provide content metrics describing what content is being accessed, how frequently the content is accessed and which users are accessing the content.
- The HSIN Next Generation System shall measure the number of documents generated.
- The HSIN Next Generation System shall measure the number and percentage of documents 1977 shared.
 - The HSIN Next Generation System shall allow the setting of an unused document metric (days since last access).
 - The HSIN Next Generation System shall measure the number and percentage of documents meeting the criteria of the unused document metric.
 - The HSIN Next Generation System shall report the number and percentage of documents meeting the criteria of the unused document metric.
 - The HSIN Next Generation System shall measure the number and percentage of documents blocked.
 - The HSIN Next Generation shall measure the number of reports generated and disseminated by defined categories (e.g., COI, state, region, etc)..
- 1988 The HSIN Next Generation shall measure the number of Critical Infrastructure/Key Resource 1989 (CI/KR) sector assessments completed for the year by Intelligence and Analysis (I&A's) 1990 Homeland Infrastructure Threat and Risk Analysis Center (HITRAC).

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1991	•	The HSIN Next Generation System shall time-tag all data transactions.
1992	•	The HSIN Next Generation System shall provide the amount of data storage metric.
1993	•	The HSIN Next Generation System shall provide number of files metric.
1994	•	The HSIN Next Generation System shall provide number of folders metric.
1995	•	The HSIN Next Generation System shall provide content size metric.
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Appendix A: Sources

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- 2082 "Utopia" Discussion with Theresa Phillips, 7 November 2007

2084 Appendix B: GLOSSARY

Table 2 below provides a list of defined terms pertinent to this document.

	Table 2. Glossary of Terms
Term	Definition
Alert	An alert is an incoming message sent to a user via another user, an automated response to an event, or a manual trigger. An alert will display a brief description as to why it appeared or why it was sent and will ask the user to either; confirm the alert was received or respond to the alert as described in the message. Approved users may send alerts to individual users or entire communities regarding announcements or other information.
Analysis	Analysis is the verification by evaluation using mathematical representation, experience, charts, graphs, circuit diagrams, data reduction, and/or representative data. Analysis also includes the verification of requirements under conditions (simulated or modeled) where the results are derived from the analysis of the results produced by the model.
Announcement	Announcements are notices that affect most or all users. An announcement is typically sent to all users via email, preferred medium, or posted on a common space such as a homepage or specific announcements section so that it can be easily communicated to everyone. Alerts or notifications may be sent to notify users that an announcement was released.
Architecture	Architecture refers to the structure of components, their relationships, and the principles and guidelines governing their design and evolution over time.
Assumption	An assumption is the notion that the information, standard, or requirement is generally understood or thought true. Assumptions are not tested and may not have a 100 percent chance of occurring.
Audit Trail	An audit trail is an electronic record showing who has accessed a computer system and what operations they have performed during a given period of time. Audit trails are useful both for maintaining security and for recovering lost transactions. Audit records typically result from activities such as transactions or communications by individual people, systems, accounts, or other entities. In information or communications security, information audit means a chronological record of system activities to enable the reconstruction and examination of the sequence of events and/or changes in an event.
	Each user of the HSIN Next Generation System will be individually accountable for their actions while using the system through the integration of auditing tools.
Authentication	Authentication refers to the process of identifying an individual, usually based on a username and password. In a security context, authentication is distinct from authorization, which is the process of giving individuals access to system objects based on their identity. Authentication merely ensures that the individual is who they claim to be, but making no distinctions concerning the specific access rights of the individual.
	The HSIN Next Generation System will enforce two-factor authentication.
Authorization	Authorization is the process of granting or denying user access to a specific network resource. Most computer security systems are based on a two-step process. The first stage is authentication, which ensures that a user is who they claim to be. The second stage is authorization, which allows the user access to various resources based on the user's identity.
	The HSIN Next Generation System will allow single sign-on authorization (including applications and other portals) once a user is successfully authenticated.

Table 2. Glossary of Terms		
Term	Definition	
Availability	Availability is a system design and associated implementation protocol that ensures a certain absolute degree of operational continuity during a given measurement period. Availability refers to the ability of the user community to access the system, whether to submit new work, update, or remove existing work, or collect the results of previous work. If a user cannot access the system, it is said to be unavailable. Generally, the term "downtime" is used to refer to periods when a system is unavailable.	
	The HSIN Next Generation System target operational availability is 99.99%.	
Cascading Style Sheet (CSS)	In web development, Cascading Style Sheet is a style sheet language used to describe the presentation of a document written in a markup language. Its most common application is to style web pages written in HTML, but the language can be applied to any kind of XML document.	
	CSS is used to help readers of web pages to define colors, fonts, layout, and other aspects of document presentation. It is designed primarily to enable the separation of document content (written in HTML, or a similar markup language) from document presentation (written in CSS). This separation can improve content accessibility, provide more flexibility and control in presentation characteristics, and reduce complexity and repetition in structural content.	
Catastrophic Failure	Catastrophic failure refers to any incident that causes total loss of HSIN or its tools (e.g. Portal, Instant Messaging, AMS, databases, and mapping). Users are prevented from performing tasks necessary for mission critical operations. Failure requires immediate resolution as the complete system cannot be used until the repair has been made.	
Collaboration	Collaboration is a structured, recursive process where two or more people work together toward a common goal (typically an intellectual endeavor that is creative in nature) by sharing knowledge, learning and building consensus.	
	Collaboration is a primary component of the HSIN Next Generation System. Its architecture and functionality will encourage multiple persons working together to support the mission. This will consist of real-time communications, collaborating through discussion boards, Instant Messaging, and other innovative means of communicating with other system users.	
Communities of Interest (COI)	Communities of interest refers to groups of collaborative users who require a shared vocabulary to exchange information in pursuit of common goals, interests, and business objectives (per the <i>National Information Exchange Model [NIEM] CONOPS</i> , October 2004).	
Constraint	A constraint is a bound that specifies an acceptable minimum or maximum condition or requirement and are conditions outside the control of the project that limit the design or other alternatives.	
Content Discovery and Delivery (CDD)	Within an SOA framework, CDD refers to a generally-available, searchable index of media files and other content to help users locate content on a web-enabled system.	
	The HSIN Next Generation System CDD capability will provide a smart-cache method of information transport. This CDD capability facilitates the movement of content around the enterprise for rapid access, enterprise federated alerts, and transactional messaging capabilities.	
Context Diagram	A Context diagram is the highest level view of a system. Context diagrams are typically used to display how a system interoperates at a very high level or how systems operate and interact logically. The system context diagram is a necessary tool in developing a baseline interaction between systems and actors, actors and system, or systems and	

Table 2. Glossary of Terms		
Term	Definition	
	systems. Context diagrams show the interactions between a system and other actors with which the system is designed to face.	
Data Retention	Data retention refers to the determining the retention period and archival requirements for each identifiable data entity. For historical data, it refers to determining the frequency of access and the type of data to be accessed. Data retention might also include any known backup or archiving requirements that would contribute significant network traffic (e.g., the need to implement a distributed backup from a central site).	
Demonstration	Demonstration is the verification by operation, movement, and/or adjustment of the item under specific conditions to perform the design functions without recoding of quantitative data. Demonstration is typically considered the least restrictive of the verification methods.	
Discussion Board	A discussion board is an Internet-based forum usually dedicated to a specific interest group. It is sometime called a bulletin board or interactive message board.	
	The HSIN Next Generation System will provide a web forum function that enables the creation of private discussion boards. These discussion boards will be managed by administrators (or other approved users) who will be able to edit and delete threads and moderate community users. As part of the overall solution to information assurance, the threaded discussion will also feature discussion archival.	
Download	To 'download' is the ability for HSIN users to be able to receive/transfer data from the HSIN Next Generation System and save/copy it to a local source, such as the user's desktop. For example, "Downloading a video from HSIN NextGen" means that a video that is currently hosted on the system is saved onto the user's local desktop, and can be accessed from the user's machine without having to be logged onto the HSIN NextGen system.	
Encryption	Encryption is the translation of data into a secret code. Encryption is the most effective way to achieve data security. To read an encrypted file, you must have access to a secret key or password that enables you to decrypt it. Unencrypted data is called plain text; encrypted data is referred to as cipher text.	
	There are two main types of encryption: asymmetric encryption (also called public-key encryption) and symmetric encryption.	
Enterprise Architecture (EA)	Enterprise Architecture is a strategic information asset base that defines the mission, the information required to perform the mission, and the technologies necessary to perform the mission. It also encompasses the transitional processes for implementing new technologies in response to changing mission needs (per the Federal CIO Council).	
Enterprise Service Management (ESM)	Within an SOA framework, ESM refers the set of systems used to manage large numbers of remote intelligent devices via a variety of communication mechanisms.	
	Within HSIN Next Generation, the ESM capability collects information to support monitoring and management of web services and monitoring of COI developed web services.	
Functional Requirements	In systems engineering, a functional requirement defines the desired operational characteristic of a software system (or one of its components). A function is described as a set of inputs, the system behavior and outputs. Functional requirements describe what the system, process, or product/service must do in order to fulfill the related business requirement(s).	
	Functional requirements are typically supported by non-business which are requirements that specify criteria that can be used to assess the general operational characteristics of	

	Table 2. Glossary of Terms
Term	Definition
	a system, rather than their specific behaviors (e.g., performance, scalability, security and usability).
	Requirements must be clear, correct, unambiguous, specific, achievable and verifiable.
Homepage	The homepage is the page a user arrives at after logging into a system. It serves as a point of entry to the rest of the website or system and displays user specific information and links. The homepage may also be known as the "landing page," because it is the page a user "lands" on or is re-directed to after successful login.
	In HSIN Next Generation System, users will customize the display and content of their homepage.
Incident	An incident is any action or defect that causes system degradation or loss of non-critical business functionality. This includes degradation of expected system response times for a particular tool to the extent that operational activities suffer. The defect does not cause a failure or impair usability, and the desired processing results are easily obtained by working around the defect.
Information,Management	Information management refers to the collection and management of information from one or more sources and the distribution of that information to one or more audiences. This sometimes involves those who have a stake in, or a right to that information. Management means the organization of and control over the structure, processing and delivery of information.
	For the specific mission purposes of the HSIN Next Generation System, content management is the collection and dissemination of either raw or processed data for the operational use of COI members and the various analytical COIs. The HSIN Next Generation System's content management capabilities will support bulk content management operations such as upload and download. Integrated content metadata extraction is required to ease content organization within the HSIN Next Generation System environment for all content (including bulk content) operational transactions.
Information Technology (IT)	Information technology refers to any equipment, or interconnected system or subsystem of equipment used in the automatic acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission or reception of data or information by the executive agency. This includes equipment used by a Component directly, or used by a contractor under a contract with the Component, which (a) requires the use of such equipment; or (b) requires the use, to a significant extent, of such equipment in the performance of a service or the furnishing of a product.
	The term "IT" also includes computers, ancillary equipment, infrastructure, software, firmware, services (including support services), and related resources.
Infrastructure (system-specific)	Infrastructure refers to the basic, underlying framework and features of any automated system. The term infrastructure typically includes the component system installations that form the basis of any operational system. Infrastructure also encompasses the basic support services for computing as well—particularly national networks.
	The HSIN Next Generation System's infrastructure will inherently support all of its defined availability, reliability, maintainability, and survivability performance requirements. To ensure greater stability and recovery in the event of an incident, the system's infrastructure will be redundant and geographically diverse between the primary and backup sites.

	Table 2. Glossary of Terms
Term	Definition
Inspection	Inspection is the verification by examination of the item, reviewing descriptive documentation, and comparing the appropriate characteristics with a predetermined standard to determine conformance to requirements without the use of special laboratory equipment or procedures.
Instant Messaging (IM)	Instant messaging is a form of real-time communication between two or more people based on typed text. The text is conveyed via computers connected over a network such as the Internet. Instant messaging offers real-time communication and allows easy collaboration. Instant messaging allows instantaneous communication between a multiple parties simultaneously by transmitting information quickly and efficiently, featuring immediate receipt of acknowledgement or reply.
	This FRD defines a full set of IM directory requirements for the HSIN Next Generation System.
Interoperability (system-specific)	Interoperability refers to the ability of systems or functional units thereof to provide data, information, materiel, and services to (and accept the same from) other systems or units. The term also denotes use of the data, information, interfaces, materiel and services so exchanged to enable theses systems/units to operate effectively together.
	The HSIN Next Generation System will be the hub connecting the DHS community and their information sharing networks and applications. There are several allied networks and programs that serve, support, or leverage HSIN for the COIs. These include the HSIN/United States Computer Emergency Readiness Team (US-CERT) and the legacy COP application.
Issue	An issue is any incident during which the system is operational but one or more components are operating differently than expected. It does not result in a failure, but causes the system to produce incorrect, incomplete, or inconsistent results, or impairs system usability.
Login Page	The login page is where a user enters their username (or other identification) and password to verify they are authorized to access the content of the website or system. Users that try to access content from an outside search engine or website will be redirected to the login page before being able to continue to the material. Once users leave the site they will be required to enter their information into the login page before regaining entry.
Loose Coupling	Within an SOA framework, loose coupling refers to a functionally resilient relationship between two or more systems or organizations with some kind of implicit information exchange relationship. Each end of the transaction makes its requirements explicit and makes few assumptions about the other end. Loosely-coupled services maintain a relationship that minimizes application-specific dependencies and only requires that they maintain a "general operational awareness" of one another.
Machine-to-Machine (M2M)	M2M messaging involves:
Messaging	Coordination of hardware and software systems enabling seamless data access and asset management
	The integration of device-layer identification, sensing, location and processing with enterprise-layer diagnostics, monitoring and control applications
	 An ecosystem of vendors, integrators and ASPs creating significant value via proactive asset and enterprise data management and analysis
	The use of M2M Messaging will provide the HSIN Next Generation System with the

Table 2. Glossary of Terms		
Term	Definition	
	infrastructure to establish and sustain a reliable bridge between multiple organizations, thereby enabling the interoperable sharing of data.	
Maintainability	Maintainability is a characteristic of design and installation that defines the probability that an item will be retained in or restored to a specified condition within a given period of time when the maintenance is performed in accordance with prescribed procedures and resources. It includes the ease with which maintenance of a functional unit can be performed in accordance with prescribed requirements.	
	HSIN Next Generation System maintenance requirements will address accessibility, diagnostics, repair and sparing for all maintenance levels.	
Mediation	Within an SOA framework, mediation refers to an indirect mapping between various data sources based on a standardized data model.	
	The HSIN Next Generation System Mediation capability provides the infrastructure to integrate data providers seamlessly with data consumers and other data providers.	
Metrics	Metrics are a system of parameters for the quantitative and periodic assessment of a measurable process. A metric should include the procedures used to conduct the measurement, as well as the analytical method for interpreting the assessment. Metrics are usually specialized by the subject area, in which case they are valid only within a certain domain and cannot be directly benchmarked or interpreted outside it. This FRD defines metrics requirements for system usage, system health and content.	
Multi-Level Security	Multi-level security is the ability to handle multiple classification levels and compartmentalize those information pieces. The system processes information with different sensitivities (i.e. SBU and PCII), permits simultaneous access by users with different access levels, and prevents users from obtaining access to information for which they lack authorization. In the case of HSIN NextGen, multi-level security pertains to the different types of SBU data. All data used by HSIN Next Gen will be unclassified.	
	Multi-level security allows less sensitive information to be shared with higher classification systems, and it allows higher classified information to be sanitized and shared with lower classification systems, such as HSIN NextGen. Sanitized data has been edited to remove information that classified it at a higher level.	
Non-business Requirement	Non-business requirements are requirements which specify criteria that can be used to assess the general operational characteristics of a system, rather than their specific behaviors. This should be contrasted with functional requirements that define specific behaviors or functions. Non-business requirements are often called qualities of a system. Other terms for non-business requirements are constraints, quality attributes, quality goals and quality of service requirements.	
	The non-business requirements for the HSIN Next Generation System are defined in section 3 of this document.	
Notification	A notification is a message sent informing the user(s) of an action or event that may impact them in some way. For example notifications are sent to inform employees that their network will be down for a certain period due to system maintenance and therefore some services will not be available.	
Online Chat / Chat	A chat is a real time online conversation between many computer users. The chat takes place in a "chat room", a virtual online room. Users type their messages, and their messages appear on the monitor as text entries that scroll many screens deep. Anywhere from 2 to 200 people can be in a chat room. They can send, receive and rep to messages from many chat users simultaneously. It is similar to instant messaging but	

Table 2. Glossary of Terms		
Term	Definition	
	with more than two people.	
	The HSIN Next Generation System will support creating both persistent and temporary chat rooms as part of its Instant Messaging facility.	
Open Architecture	Open architecture is a type of systems architecture that facilitates adding, upgrading and swapping functional components. Open architecture allows potential users to see inside all or parts of the architecture without any proprietary constraints. Typically, an open architecture publishes all or parts of its architecture that the developer or integrator wants to share.	
	The HSIN Next Generation System development includes the design, development, integration, testing, and implementation of a multi-level fully secure Open Architecture system.	
Operational View (OV)	A view that describes the joint capabilities that the user seeks and how to employ them. The OVs also identify the operational nodes, the critical information needed to support the piece of the process associated with the nodes, and the organizational relationships.	
Operational View 1 (OV-1)	OV-1 refers to a high-level graphical and/or textual description of an identifiable operational concept (high-level organizations, missions, geographic configuration, connectivity, etc)	
Polling	Polling refers to the sequential interrogation of system devices for various purposes, such as avoiding contention, determining current operational status, or determining readiness to send or receive data.	
	The HSIN Next Generation System will incorporate a polling capability to support collaborative efforts.	
Real-Time	Occurring immediately. The term is used to describe a number of different computer features. For example, real-time operating systems are systems that respond to input immediately. They are used for such tasks as navigation, in which the computer must react to a steady flow of new information without interruption. Most general-purpose operating systems are not real-time because they can take a few seconds, or even minutes, to react.	
	A real-time system may be one where its application can be considered (within context) to be mission critical.	
Reliability	Reliability is the ability of a system or component to perform its required functions under stated conditions for a specified period of time. Reliability is the ability of a system to perform and maintain its functions in routine conditions, as well as unexpected and even hostile circumstances.	
	The HSIN Next Generation System infrastructure will maintain reliability during peak demand or periods of stress, but will allow vendors the flexibility to distribute system load across sites.	
Routine Problem	A routine problem refers to any problem that is commonly resolved within the span of a Help Desk call or quickly resolved following the call. If there is a defect, it is the result of non-conformance to a standard, related to the aesthetics of the system, or a request for an enhancement. A defect at this level may be deferred or even ignored at the discretion of DHS. It can be resolved in a future system update or not at all.	
Scalability	In systems engineering, scalability is a desirable property of a system, network, or process that indicates its ability to handle growing amounts of work in a graceful manner, or to be readily enlarged. For example, scalability refers to the capability of a system to	

	Table 2. Glossary of Terms
Term	Definition
	increase total throughput under an increased load when resources are added.
	The HSIN Next Generation System will be designed to facilitate consistent and graceful expansion.
Section 508 (Rehabilitation Act of 1973)	In 1998 the US Congress amended the Rehabilitation Act to require Federal agencies to make their electronic and information technology accessible to people with disabilities. Inaccessible technology interferes with an individual's ability to obtain and use information quickly and easily.
	Section 508 was enacted to eliminate barriers in information technology, to make available new opportunities for people with disabilities, and to encourage development of technologies that will help achieve these goals. The law applies to all Federal agencies when they develop, procure, maintain, or use electronic and information technology. Under Section 508, agencies must give disabled employees and members of the public access to information that is comparable to the access available to others.
	The HSIN Next Generation System will be Section 508-compliant.
Sensitive But Unclassified (SBU)	"Sensitive But Unclassified" is a U.S. designation of information, often referred to as "Sensitive Homeland Security Information." SBU is a broad category of information including For Official Use Only (FOUO), Law Enforcement Sensitive (LES), Security Sensitive Information (SSI), Critical Infrastructure Information (CII), etc. Some categories of SBU information have authority in statute or regulation (e.g., SSI, CII) while others (FOUO) do not.
	The HSIN Next Generation System will support Sensitive But Unclassified (SBU) information and operations.
Service Discovery	Within an SOA framework, service discovery refers to "services" that are designed to be outwardly descriptive so that they can be found and assessed via available discovery mechanisms.
	A key component of the HSIN Next Generation System SOA framework will be a searchable repository of services that provides an asset management capability for services within DHS and supports the full life-cycle of services and service artifacts. Service discovery allows service providers to publish/advertise service specifications, metadata, and service accessibility to the entire user community. Service discovery also allows service consumers to discover information that has been advertised by providers.
Service-Oriented Architecture (SOA)	Service-oriented architecture is a computer systems architectural style for creating and using business processes (packaged as "services") throughout their life-cycle. The SOA framework also defines the IT infrastructure that allows different applications to exchange data and participate in business processes. One of the underpinning concepts of SOA is that these services are best used when <i>loosely coupled</i> with the operating systems and programming languages that support the applications themselves.
*	The SOA framework separates functions into distinct operational units (i.e., "services"), which can then be distributed over a network to be combined and reused when creating business applications. These services communicate with each other by passing data from one service to another, or by coordinating a predefined business activity between two or more services. SOA concepts are often seen as having logically evolved from the older systems development concepts of distributed computing and modular programming.
	The HSIN Next Generation System will promote interoperability with DHS enterprise and Federal, State, local, Tribal, Territorial, private sector, and international partners through

Table 2. Glossary of Terms		
Term	Definition	
	an SOA. The HSIN Next Generation SOA objective is intended to define a set of capabilities that can be satisfied with commercially available products and open standards. It will include the following enterprise core services: Enterprise Service Management (ESM), Content Discovery and Delivery (CDD), Machine-to-Machine (M2M) Messaging, and Service Discovery.	
Survey	Survey refers to a representative sampling (or partial collection) of gathered information that is used to approximate what a complete collection and analysis might reveal.	
	The HSIN Next Generation System will incorporate a survey capability to support collaborative efforts.	
Survivability	In systems engineering, survivability is the quantified ability of a system, subsystem, equipment, process, or procedure to continue to function during and after a natural or man-made disturbance. For a given application survivability must be qualified by specifying the range of conditions over which the entity will survive, the minimum acceptable level of post-disturbance functionality and the maximum acceptable outage duration.	
	The HSIN Next Generation System will remain operational during and following a system or environmental disturbance. This requires that resources be reconstituted in time or failover in place.	
System Failure	System failure is any incident that causes total loss of functionality for one of the HSIN tools and severely affects system use. The problem is of a time-sensitive nature. While it does not cause a complete work stoppage, no workaround is available and operational activities can only continue in a restricted fashion. Alternatively, it may be a "critical failure" for which a customer-acceptable workaround exists.	
Test	Test refers to verification through systematic exercising of the applicable item under appropriate conditions with instrumentation to measure required parameters and the collection, analysis, and evaluation of quantitative data to show that measured parameters equal or exceed specified requirements.	
Universal Description, Discovery, and Integration (UDDI)	UDDI is a platform-independent, XML-based registry for businesses worldwide to list themselves on the Internet. UDDI is an open industry initiative, sponsored by OASIS, enabling businesses to publish service listings and discover each other and define how the services or software applications interact over the Internet. A UDDI business registration consists of three components:	
	White Pages: Address, contact, and known identifiers	
	Yellow Pages: Industrial categorizations based on standard taxonomies	
	Green Pages: Technical information about services exposed by the business	
	The HSIN Next Generation System will conform to the UDDI V3.0.2 standard, including a Service Discovery specification for support of the overall SOA framework.	
Upload	To 'upload' is the ability for HSIN users to be able to send/transfer data from a local source, such as the user's desktop, and save/copy it onto the HSIN Next generation system. For example, "Uploading a video to HSIN NextGen" means sending a video to the system, which can be accessed by other HSIN NextGen users, through the system.	
Usability	In human/computer interaction, the term usability usually refers to the elegance and clarity with which the interaction with an automated system or web site is designed.	
	The primary notion of usability is that a system designed with the users' psychology and	

Table 2. Glossary of Terms		
Term	Definition	
	physiology in mind is, for example:	
	More Efficient to Use: Takes less time to accomplish a particular task	
	Easier to Learn: Operation can be learned by observing the object	
	General Satisfaction: More satisfying to use	
	The HSIN Next Generation System interfaces and functions will be designed for ease-of-use at all levels of anticipated user abilities.	
Visualization	Data visualization is the use of interactive, visual representations of abstract and non-abstract data to provide for decision support and situational awareness. Visualization provides user interactivity and dynamic visual representation. The user can modify the visualization in real-time, thus affording perception of patterns and structural relations in the abstract data in question.	
	The HSIN Next Generation System will support visualization tools to view data in graphical, geospatial, and temporal views.	
Web Browser	A web browser is a software application that enables a user to display and interact with text, images, videos, music, and other information typically located on a web page, at a website, on the World Wide Web, or on a local area network. Text and images on a web page can contain hyperlinks to other web pages at the same or different website. Web browsers allow a user to quickly and easily access information provided on many web pages at many websites by traversing these links. Web browsers may display or format the same HTML information a differently, so the appearance of any given web page may differ somewhat between browsers.	
	Some of the Web browsers available for personal computers include Internet Explorer, Mozilla Firefox, Safari, and Opera in order of descending popularity (as of November 2007).	
_	The HSIN Next Generation System will be fully web-enabled.	
XML	"XML" is short for eXtensible Markup Language. XML is a general purpose markup language, and is essentially a pared-down version of the Standard Generalized Markup Language (SGML). It is designed especially for web documents. XML allows designers to create their own customized tags, thereby enabling the definition, transmission, validation, and interpretation of data between applications and between organizations. Its primary purpose is to facilitate the sharing of structured data across different information systems, particularly via the Internet. It is used both to encode documents and to serialize data.	

14.0 PWS/SOO/FRD CROSS REFERENCE TABLE

The following table provides a cross reference from the PWS sections (to the 5th level) to the Task Order Statement Of Objectives (SOO), the Functional Requirements, and Contract Work Breakdown Structure (CWBS). Each level (1st,2nd, 3rd, and 4th) of the CWBS map directly to the first 4 levels identified in Section 5.0, the HSIN Performance Requirements.

	PWS-STATEMENT OF OBJECTIVES/FU	UNCTIONAL REQUIREMENTS DO	CUMENT CROSS REFERENCE	
PWS				
Section	PWS Task	SOO	FRD & HSIN-CS	CWBS
1	BACKGROUND	2.0 Background	N/A	N/A
2	SCOPE	1.0 Overview	N/A	N/A
2.1	Program Objectives	5.0 Program Objectives	N/A	N/A
3.0	APPLICABLE DOCUMENTS	N/A	N/A	N/A
4.0	PERFORMANCE REQUIREMENTS	N/A	N/A	N/A
4.1	BASE YEAR	N/A	HSIN-CS, HSIN NexGen FRD 2.X	1.1
4.1.1	Program and Technical Management	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1
4.1.1.1	Program Planning and Execution	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.1
4.1.1.1.1	Program Plan	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.1
4.1.1.1.2	Tailored Development Process	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.1
4.1.1.1.3	Risk Management Plan	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.1
4.1.1.1.4	IT Security Plan	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.1
4.1.1.1.5	Master Test and Evaluation Plan	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.1
4.1.1.1.6	Software Development Plan	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.1
4.1.1.7	Quality Assurance Surveillance Plan	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.1
4.1.1.1.8	Service Level Agreements (SLA)	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.1
4.1.1.2	Earned Value Management Systems (EVMS)	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.2
4.1.1.3	Subcontract Management	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.3
4.1.1.4	Configuration Management	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.4
4.1.1.5	Program Quality Assurance	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.5
4.1.1.6	Program Reviews	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.6
4.1.1.7	Performance Measures	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X	1.1.1.7
4.1.2	Spiral 1 – HSIN-CS	6.3 Technical Objectives	HSIN-CS	1.1.2
4.1.2.1	Technical Management	6.2 Core Functional Areas	HSIN-CS	1.1.2.1
4.1.2.2	Architecture and Systems Engineering	6.2 Core Functional Areas	HSIN-CS	1.1.2.2
4.1.2.3	Analysis, Design, Development and Implementation	6.2 Core Functional Areas	HSIN-CS	1.1.2.3
4.1.2.4	Certification and Accreditation	6.2 Core Functional Areas	HSIN-CS	1.1.2.4

PWS—STATEMENTROFOBLECTIMES/RUNCH ONAL REQUIREMENTS DOCU		UNCTIONAL REQUIREMENTS DOC	CUMENT CROSS REFERENCE	
PWS Section	PWS Task	800	FRD & HSIN-CS	CWBS
4.1.2.5	System Test and Evaluation	6.2 Core Functional Areas	HSIN-CS	1.1.2.5
4.1.2.6	Organizational Change and Training	6.2 Core Functional Areas	HSIN-CS	1.1.2.6
4.1.2.6.1	Organizational Change	6.2 Core Functional Areas	HSIN-CS	1.1.2.6
4.1.2.6.2	Training	6.2 Core Functional Areas	HSIN-CS	1.1.2.6
4.1.2.7	Operational/Site Activation	6.2 Core Functional Areas	HSIN-CS	1.1.2.7
4.1.2.7.1	Installation Plan	6.2 Core Functional Areas	HSIN-CS	1.1.2.7
4.1.3	Spiral 2 – HSIN NexGen IOC	6.3 Technical Objectives	HSIN NexGen FRD 2.X	1.1.3
4.1.3.1	Technical Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.1.3.1
4.1.3.2	Architecture and System Engineering	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.1.3.2
4.1.3.3	Analysis, Design, Development and Implementation	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.1.3.3
4.1.3.4	Certification and Accreditation	6.3 Technical Objectives	HSIN NexGen FRD 2.X	1.1.3.4
4.1.3.5	System Test and Evaluation	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.1.3.5
4.1.3.5.1	Independent Verification and Validation	6.3 Technical Objectives	HSIN NexGen FRD 2.X	1.1.3.5
4.1.3.6	Organizational Change and Training	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.1.3.6
4.1.3.6.1	Organizational Change	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.1.3.6
4.1.3.6.2	Training	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.1.3.6
4.1.3.7	Operational/Site Activation	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.1.3.7
4.1.3.7.1	Installation Plan	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.1.3.7
4.1.4	Spiral 4 – HSIN NexGen FOC	6.3 Technical Objectives	HSIN NexGen FRD 3.X	1.1.4
4.1.4.1	Technical Management	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.1.4.1
4.1.4.2	Architecture and System Engineering	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.1.4.2
4.1.4.3	Analysis, Design, Development and Implementation	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.1.4.3
4.1.4.4	Certification and Accreditation	6.3 Technical Objectives	HSIN NexGen FRD 3.X	1.1.4.4
4.1.4.5	System Test and Evaluation	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.1.4.5
4.1.4.6	Organizational Change and Training	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.1.4.6
4.1.4.6.1	Organizational Change	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.1.4.6
4.1.4.6.2	Training	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.1.4.6
4.1.5	HSIN NexGen Operations and Maintenance (O&M) Support	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 3,X	1.1.5
4.1.5.1	Program Management	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.1.5.1

	PWS – STATEMENT OF OBJECTIVES/F	UNCTIONAL REQUIREMENTS DO	OCUMENT CROSS REFERENCE	
PWS Section	PWS Task	SOO	FRD & HSIN-CS	CWBS
4.1.5.2	Help Desk Services	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 3.X	1.1.5,2
4.1.5.3	Tier 2 – System Administration	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 3.X	1.1.5.3
4.1.5.4	Tier 3 – Infrastructure & Network Services	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 3.X	1.1.5.4
4.2	Option 1	N/A	HSIN NexGen FRD 2.X & 3.X	1.2
4.2.1	Program and Technical Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.2.1
4.2.1.1	Program Planning and Execution	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.2.1.1
4.2.1.2	Earned Value Management System (EVMS)	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.2.1.2
4.2.1.3	Subcontract Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.2.1.3
4.2.1.4	Configuration Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.2.1.4
4.2.1.5	Program Quality Assurance	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.2.1.5
4.2.1.6	Program Reviews	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.2.1.6
4.2.1.7	Performance Measures	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.2.1.7
4.2.2	Spiral 3 – HSIN NexGen MOC	6.3 Technical Objectives	HSIN NexGen FRD 2.X	1.2.2
4.2.2.1	Technical Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.2.2.1
4.2.2.2	Organizational Change and Training ,	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.2.2.2.
4.2.2.2.1	Organizational Change	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.2.2.2
4.2.2.2.2	Training	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.2.2.2
4.2.2.3	Operational/Site Activation	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.2.2.3
4.2.2.4	Decommissioning	6.2 Core Functional Areas	HSIN NexGen FRD 2.X	1.2.2.4
4.2.3	Spiral 4 – HSIN NexGen FOC	6.3 Technical Objectives	HSIN NexGen FRD 3.X	1.2.3
4.2.3.1	Technical Management	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.2.3.1
4.2.3.2	Architecture and System Engineering	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.2.3.2
4.2.3.3	Analysis, Design, Development and Implementation	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.2.3.3
4.2.3.4	Certification and Accreditation	6.3 Technical Objectives	HSIN NexGen FRD 3.X	1.2.3.4
4.2.3.5	System Test and Evaluation	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.2.3.5
4.2.3.5.1	Independent Verification and Validation	6.3 Technical Objectives	HSIN NexGen FRD 3.X	1.2.3.5
4.2,3.6	Organizational Change and Training	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.2.3.6
4.2.3.6.1	Organizational Change	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.2.3.6
4.2.3.6.2	Training	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.2.3.6
4.2.3.7	Operational/Site Activation	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.2.3.7

PWS Section	PWS Task	soo	FRD & HSIN-CS	CWBS
4,2.3.7.1	Installation Plan	6.2 Core Functional Areas	HSIN NexGen FRD 3.X	1.2.3.7
4.2.4	HSIN NexGen O&M Support	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X & 3.X	1.2.4
4.2.4.1	Program Management	6.2 Core Functional Areas	HSIN-CS, HSIN NexGen FRD 2.X & 3.X	1.2.4.1
4.2.4.2	Help Desk Services	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN-CS, HSIN NexGen FRD 2.X & 3.X	1.2.4.2
4.2.4.3	Tier 2 – System Administration	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN-CS, HSIN NexGen FRD 2.X & 3.X	1.2.4.3
4.2.4.4	Tier 3 – Infrastructure & Network Services	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN-CS, HSIN NexGen FRD 2.X & 3.X	1.2.4.4
4.3	Option 2	N/A	HSIN NexGen FRD 2.X & 3.X	1.3
4.3.1	Program and Technical Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.3.1
4.3.1.1	Program Planning and Execution	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.3.1.1
1.3.1.2	Earned Value Management System (EVMS)	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.3.1.2
4.3.1.3	Subcontract Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.3.1.3
4.3.1.4	Configuration Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.3.1.4
4.3.1.5	Program Quality Assurance	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.3.1.5
4.3.1.6	Program Reviews	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.3.1.6
4.3.1.7	Performance Measures	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.3.1.7
4.3.2	HSIN NexGen O&M Support	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.3.2
4.3.2.1	Program Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.3.2.1
4.3.2.2	Help Desk Services	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 2.X & 3.X	1.3.2.2
4.3.2.3	Tier 2 – System Administration	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 2.X & 3.X	1.3.2.3
1.3.2.4	Tier 3 – Infrastructure & Network Services	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 2.X & 3.X	1.3.2.4
1.4	Option 3	N/A	HSIN NexGen FRD 2.X & 3.X	1.4
1.4.1	Program and Technical Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.4.1
.4.1.1	Program Planning and Execution	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.4.1.1
1.4.1.2	Earned Value Management System (EVMS)	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.4.1.2
1,4.1.3	Subcontract Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.4.1.3
4.4.1.4	Configuration Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3,X	1.4.1.4

PWS Section	PWS Task	S00	FRD & HSIN-CS	CWBS
4.4.1.5	Program Quality Assurance	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.4.1.5
4.4.1.6	Program Reviews	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.4.1.6
4.4.1.7	Performance Measures	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.4.1.7
4.4.2	HSIN NexGen O&M Support	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.4.2
4.4.2.1	Program Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.4.2.1
4.4.2.2	Help Desk Services	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 2.X & 3.X	1.4.2.2
4.4.2.3	Tier 2 – System Administration	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 2.X & 3.X	1.4.2.3
4.4.2.4	Tier 3 – Infrastructure & Network Services	6.2 Core Functional Areas6.3 Technical Objectives	HSIN NexGen FRD 2.X & 3.X	1.4.2.4
4.5	Option 4	N/A	HSIN NexGen FRD 2.X & 3.X	1.5
4.5.1	Program and Technical Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.5.1
4.5.1.1	Program Planning and Execution	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.5.1.1
4.5.1.2	Earned Value Management System (EVMS)	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.5.1.2
4.5.1.3	Subcontract Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.5.1.3
4.5.1.4	Configuration Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.5.1.4
4.5.1.5	Program Quality Assurance .	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.5.1.5
4.5.1.6	Program Reviews	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.5.1.6
4.5.1.7	Performance Measures	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.5.1.7
4.5 <i>.</i> 2	HSIN NexGen O&M Support	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.5.2
4.5.2.1	Program Management	6.2 Core Functional Areas	HSIN NexGen FRD 2.X & 3.X	1.5.2.1
4.5.2.2	Help Desk Services	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 2.X & 3.X	1.5.2.2
4.5.2.3	Tier 2 – System Administration	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 2.X & 3.X	1.5.2.3
1.5.2.4	Tier 3 Infrastructure & Network Services	6.2 Core Functional Areas 6.3 Technical Objectives	HSIN NexGen FRD 2.X & 3.X	1.5.2.4
5.0	PERFORMANCE STANDARDS	6.2 Core Functional Areas 6.3 Technical Objectives	N/A	N/A
5.0	INCENTIVES	N/A	N/A	N/A
7.0	DELIVERABLES AND DELIVERY SCHEDULE	6.2 Core Functional Areas 6.3 Technical Objectives	N/A	N/A
8.0	GOVERNMENT-FURNISHED EQUIPMENT AND INFORMATION	N/A	N/A	N/A

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PAWS	PWS-STATEMENT OF OBJECTIVES/FU	 	UMENT CROSS REFERENCE	
FWS Section	PWS Task	800	FRD & HSIN-CS	CWBS
9.0	PLACE OF PERFORMANCE	N/A	N/A	N/A
9.1	Travel Requirements	N/A	N/A	N/A
10.0	PERIOD OF PERFORMANCE	N/A	N/A	N/A
11.0	SECURITY	6.2 Core Functional Areas	N/A	N/A
12.0	QUALITY ASSURANCE SURVEILLANCE PLAN	6.2 Core Functional Areas	N/A	N/A
13.0	PERFORMANCE STANDARDS	6.2 Core Functional Areas 6.3 Technical Objectives	N/A	N/A
14.0	PWS CROSS REFERENCE TABLE	N/A	N/A	N/A
15.0	CONTRACT WORK BREAKDOWN STRUCTURE	N/A	N/A	N/A
16.0	PWS/SOO/CWBS CROSS REFERENCE MATRIX	N/A	N/A	N/A

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16.0 PWS/SOO/CWBS CROSS REFERENCE MATRIX

	PWS/SOO/CWBS Cross		2 15 22 22 22 22 22 22 22 22 22 22 22 22 22
PWS Section		SOO	CWBS
<u> </u>	BACKGROUND	2 	
2	SCOPE	3	
	APPLICABLE DOCUMENTS	N/A	
1.1	BASE YEAR	3.0; 4.0; 5.0; 6.0	1.1
.1.1	Program and Technical Management	3.0; 4.0; 5.0; 6.0	1.1.1
.1.1.1	Program Planning and Execution	6.1; 6.2; 6.3; 6.4	1.1.1.1
.1.1.1	Program Plan	6.2a; 6.2c	1.1.1.1
.1.1.1.2	Tailored Development Process	6.2c; 6.3.3	1.1.1.1
.1.1.1.3	Risk Management Plan	6.2c	1.1.1.1
1.1.1.4	IT Security Plan	6.2f; 6.4p; 6.4q	1.1.1.1
.1.1.1.5	Master Test and Evaluation Plan	6.2d; 6.4p; 6.4q; 6.4r	1.1.1.1
.1.1.1.6	Software Development Plan	6.2a; 6.2b; 6.4b	1.1.1.1
.1.1.1.7	Quality Assurance Surveillance Plan	6.2e; 6.4p; 6.4q; 6.4r	1.1.1.1
1.1.1.8	Service Level Agreements (SLA)	6.2e; 6.4p; 6.4q; 6.4r	1.1.1.1
1.1.2	Earned Value Management Systems (EVMS)	6.2a; 6.2c; 6.4m	1.1.1.2
.1.1.3	Subcontract Management	6.2a; 6.2c	1.1.1.3
1.1,4	Configuration Management .	6.2a; 6.2c; 6.4n; 6.4o	1.1.1.4
.1,1.5	Program Quality Assurance	6.2e; 6.4p; 6.4q; 6.4r	1.1.1.5
.1.1.6	Program Reviews	6.2a; 6.2c; 6.2e	1.1.1.6
1.1.7	Performance Measures	6.2a; 6.2c; 6.2e	1.1.1.7
1.2	Spiral 1 – HSIN-CS	3.0; 4.0; 5.0; 6.0	1.1.2
1.2.1	Technical Management	6.2b; 6.2c; 6.3.1-S1; 6.3.2; 6.3.3; 6.4	1.1.2.1
1.2.2	Architecture and System Engineering	6.2b; 6.2c; 6.3.1-S1; 6.3.2; 6.4	1.1.2.2
1.2.2.1	System Analysis, Design, Development and Implementation	6.2a; 6.2b; 6.2c; 6.3.1-S1; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.2.2
1.2.2.2	System Requirements and Design	6.2b; 6.2c; 6.3.1-S1; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.2.2
1.2,2.3	Architecture and Systems Engineering of HSIN NextGen	6.2b; 6.2c; 6.3.1-S1; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.2.2
1.2.3	Prime Mission Product	6.2b; 6.2c; 6.3.1-S1; 6.3.2; 6.4	1.1.2.3
1.2.3.1	Product Implementation	6.2b; 6.2c; 6.3.1-S1; 6.3.2; 6.4i; 6.4j	1.1.2.3
1.2.3.2	Product Test	6.2d; 6.3.2; 6.4g; 6.4q	1.1.2.3
1.2.3.3	Version Description Document	6.2e; 6.3.2; 6.4p	1.1.2.3
1.2.4	Certification and Accreditation	6.2d; 6.2e; 6.3.1-S1; 6.3.2; 6.4g; 6.4p; 6.4q	1.1.2.4
1.2.5	System Test and Evaluation	6.2d; 6.3.1-S1; 6.3.2; 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.1.2.5
1.2.5.1	System Integration Test	6.2d; 6.3.2. 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.1.2.5
.1.2.5.1	Customer Test Readiness Review	6.2d; 6.3.2. 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.1.2.5

PWS Section	PWS/SOO/CWBS Cross PWS Task	S00	CWB
4.1.2.6	Organizational Change and Training	6.2g; 6.3.1-S1; 6.3.4; 6.4c; 6.4e; 6.4f; 6.4h; 6.4l; 6.4o	
4.1.2.6.1	Organizational Change Organizational Change	6.2g; 6.3.4; 6.4c; 6.4e; 6.4h; 6.4h; 6.4h; 6.4o	1.1.2.6
4.1.2.6.2	Training Plan	6.2g; 6.3.4; 6.4e; 6.4f; 6.4h; 6.4l	1.1.2.6
4.1.2.6.3	Training Materials	6.2g; 6.3.4; 6.4e, 6.4f; 6.4h; 6.4l	1.1.2.6
4.1.2.6.4	Training Delivery	6.2g; 6.3.4; 6.4e; 6.4f; 6.4h; 6.4l	1.1.2.6
4.1.2.7	Operational/Site Activation	6.2h; 6.3.1-S1; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o; 6.4p	1.1.2.6
4.1.2.7 4.1.2.7.1	Installation Plan	6.2h; 6.3.4; 6.4d; 6.4h; 6.4h; 6.4h; 6.4o; 6.4p	1.1.2.7
4.1.2.7.1.1	Facilities Management.	6.2h; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o	1.1.2.7
4.1.2.7.1.2	Installation Drawings.	6.2h; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o	1.1.2.7
			1.1.2.7
4.1.3	Spiral 2 – HSIN NextGen IOC	3.0; 4.0; 5.0; 6.0	1.1.3
4.1.3.1	Technical Management	6.2b; 6.2c; 6.3.1-S2; 6.3.2; 6.3.3; 6.4	1.1.3.1
4.1.3.2	Architecture and System Engineering	6.2b; 6.2c; 6.3.1-S2; 6.3.2; 6.4	1.1.3.2
4.1.3.2.1	System Analysis, Design, Development and Implementation	6.2a; 6.2b; 6.2c; 6.3.1-S2; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.3.2
4.1.3.2.2	System Requirements and Design	6.2b; 6.2c; 6.3.1-S2; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.3.2
4.1.3.2.3	Customer System Requirements Review	6.2b; 6.2c; 6.3.1-S2; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.3.2
4.1.3.2.4	Architecture and Systems Engineering of HSIN NextGen	6.2b; 6.2c; 6.3.1-S2; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.3.2
4.1.3.3	Prime Mission Product	6.2b; 6.2c; 6.3.1-S2; 6.3.2; 6.4	1.1.3.3
4.1.3.3.1	Product Implementation .	6.2b; 6.2c; 6.3.1-S2; 6.3.2; 6.4i; 6.4j	1.1.3.3
4.1.3.3.2	Customer System/Software Design Review	6.2b; 6.2c; 6.3.1-S2; 6.3.2; 6.4i; 6.4j	1.1.3.3
4.1.3.3.3	Product Test	6.2d; 6.3.2; 6.4g; 6.4p; 6.4q	1.1.3.3
4.1.3.3.4	Version Description Document	6.2e; 6.3.2; 6.4p	1.1.3.3
4.1.3.4	Certification and Accreditation	6.2d; 6.2e; 6.3.1-S2; 6.3.2; 6.4g; 6.4p; 6.4q	1.1.3.4
4.1.3.5	System Test and Evaluation	6.2d; 6.3.1-S2; 6.3.2; 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.1.3.5
4.1.3.5.1	Customer Test Readiness Review	6.2d; 6.3.2. 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.1.3.5
4.1.3.5.2	Independent Verification and Validation	6.2d; 6.3.2. 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.1.3.5
4.1.3.6	Organizational Change and Training	6.2g; 6.3.1-S2; 6.3.4; 6.4c; 6.4e; 6.4f; 6.4h; 6.4l; 6.4o	1.1.3.6
4.1.3.6.1	Organizational Change	6.2g; 6.3.4; 6.4c; 6.4e; 6.4f; 6.4h; 6.4l; 6.4o	1.1.3.6
4.1.3.6.2	Training Plan	6.2g; 6.3.4; 6.4e; 6.4f; 6.4h; 6.4l	1.1.3.6
4.1.3.6.3	Training Materials	6.2g; 6.3.4; 6.4e. 6.4f; 6.4h; 6.4l	1.1.3.6
4.1.3.6.4	Training Delivery	6.2g; 6.3.4; 6.4e; 6.4f; 6.4h; 6.4l	1.1.3.6
4.1.3.7	Operational/Site Activation	6.2h; 6.3.1-S2; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o; 6.4p	1.1.3.7
4.1.3.7.1	Installation Plan	6.2h; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o	1.1.3.7
4.1.3.7.1.1	Facilities Management.	6.2h; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o	1.1.3.7
4.1.3.7.1.2	Installation Drawings.	6.2h; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o	1.1.3.7
4.1.4	Spiral 4 – HSIN NextGen FOC	3.0; 4.0; 5.0; 6.0	1.1.4
4,1.4.1	Technical Management	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.3.3; 6.4	1.1.4.1

PWS Section	PWS Task	SOO	CWBS
4.1.4.2	Architecture and System Engineering	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4	1.1.4.2
4.1.4.2.1	System Analysis, Design, Development and Implementation	6.2a; 6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.4.2
4.1.4.2.2	System Requirements and Design	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.4.2
4.1.4.2.3	Customer System Requirements Review	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.4.2
4.1.4.2.4	Architecture and Systems Engineering of HSIN NextGen	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.1.4.2
4.1.4.3	Prime Mission Product	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4	1.1.4.3
4,1,4.3.1	Product Implementation	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4i; 6.4j	1.1.4.3
4.1.4.3.2	Product Test	6.2d; 6.3.2; 6.4g; 6.4p; 6.4q	1.1.4.3
4.1.4.4	Certification and Accreditation	6.2d; 6.2e; 6.3.1-S4; 6.3.2; 6.4g; 6.4p; 6.4q	1.1.4.4
4,1.4.5	System Test and Evaluation.	6.2d; 6.3.1-S4; 6.3.2; 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.1.4.5
4.1.4.4.1	System Integration Test	6.2d; 6.3.2. 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.1.4.5
4.1.4.6	Organizational Change and Training	6.2g; 6.3.1-S4; 6.3.4; 6.4c; 6.4e; 6.4f; 6.4h; 6.4l; 6.4o	1.1.4.6
4.1.4.6.1	Organizational Change	6.2g; 6.3.4; 6.4c; 6.4e; 6.4f; 6.4h; 6.4l; 6.4o	1.1.4.6
4.1.4.6.2	Training Plan	6.2g; 6.3.4; 6.4e; 6.4f; 6.4h; 6.4l	1.1.4.6
4.1.4.6.3	Training Materials	6.2g; 6.3.4; 6.4e. 6.4f; 6.4h; 6.4l	1.1.4.6
4.1.5	HSIN NextGen Operations and Maintenance (O&M) Support	3.0; 4.0; 5.0; 6.0	1.1.5
4.1.5.1	Program Management	6.2a; 6.2b; 6.2c; 6.2h; 6.3.1-O&M 6.3.2; 6.3.3; 6.3.4; 6.4	1.1.4.1
4.1.5.2	Help Desk Services	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.1.4.2
4.1.5.3	Tier II – System Administration	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.1.4.3
4.1.4.4	Tier III – Infrastructure & Network Services	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.1.4.4
4.2	OPTION 1	3.0; 4.0; 5.0; 6.0	1.2
4.2.1	Program and Technical Management	3.0; 4.0; 5.0; 6.0	1.2.1
4.2.1.1	Program Planning and Execution	6.1; 6.2; 6.3; 6.4	1.2.1.1
4.2.1.2	Earned Value Management Systems (EVMS)	6.2a; 6.2c; 6.4m	1.2.1.2
4.2.1.3	Subcontract Management	6.2a; 6.2c	1.2.1.3
4.2.1.4	Configuration Management	6.2a; 6.2c; 6.4n; 6.4o	1.2.1.4
4.2.1.5	Program Quality Assurance	6.2e; 6.4p; 6.4q; 6.4r	1.2.1.5
4.2.1.6	Program Reviews	6.2a; 6.2c; 6.2e	1.2.1.6
4.2.1.7	Performance Measures	6.2a; 6.2c; 6.2e	1.2.1.7
4.2.2	Spiral 3 – HSIN NextGen MOC	3.0; 4.0; 5.0; 6.0	1.2.2
4.2.2.1	Technical Management	6.2b; 6.2c; 6.3.1-S3; 6.3.2; 6.3.3; 6.4	1.2.2.1
4.2.2.2	Organizational Change and Training	6.2g; 6.3.1-S3; 6.3.4; 6.4c; 6.4e; 6.4f; 6.4h; 6.4l; 6.4o	1.2.2.2
4.2.2.3	Operational/Site Activation	6.2h; 6.3.1-S3; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o; 6.4p	1.2.2.3
4.2.2.4	Decommissioning	6.2h; 6.3.1-S3; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o; 6.4p	1.2.2.4
4.2.3	Spiral 4 – HSIN NextGen FOC	3.0; 4.0; 5.0; 6.0	1.2.3
4.2.3.1	Technical Management	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.3.3; 6.4	1.2.3.1

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PWS Section	PWS Task	SOO	CWB
4.2.3.2	Architecture and System Engineering	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4	1.2.3.2
4.2.3.2.1	System Analysis, Design, Development and Implementation	6.2a; 6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.2.3.2
4.2.3.2.2	System Requirements and Design	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.2.3.2
4.2.3.2.3	Architecture and Systems Engineering of HSIN NextGen	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.2.3.2
4.2.3.3	Prime Mission Product	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4	1.2.3.3
4.2.3.3.1	Product Implementation	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4i; 6.4j	1.2.3.3
4.2.3.3.2	Customer System/Software Design Review	6.2b; 6.2c; 6.3.1-S4; 6.3.2; 6.4i; 6.4j; 6.4k; 6.4q	1.2.3.3
4.2.3.3.3	Product Test	6.2d; 6.3.2; 6.4g; 6.4p; 6.4q	1.2.3.3
4.2.3.3.4	Version Description Document	6.2e; 6.3.2; 6.4p	1.2.3.3
4.2.3.4	Certification and Accreditation	6.2d; 6.2e; 6.3.1-S4; 6.3.2; 6.4g; 6.4p; 6.4q	1.2.3.4
4.2.3.5	System Test and Evaluation	6.2d; 6.3.1-S4; 6.3.2; 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.2.3.5
4.2.3.5.1	System Integration Test	6.2d; 6.3.2. 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.2.3.5
4.2.3.5.2	Customer Test Readiness Review	6.2d; 6.3.2. 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.2.3.5
4.2.3.5.3	Independent Verification and Validation	6.2d; 6.3.2. 6.4g; 6.4i; 6.4j; 6.4p; 6.4q	1.2.3.5
4.2.3.6	Organizational Change and Training	6.2g; 6.3.1-S4; 6.3.4; 6.4c; 6.4e; 6.4f; 6.4h; 6.4l; 6.4o	1.2.3.6
4.2.3.6.1	Organizational Change	6.2g; 6.3.4; 6.4c; 6.4e; 6.4f; 6.4h; 6.4l; 6.4o	1.2.3.6
4.2.3.6.2	Training Plan	6.2g; 6.3.4; 6.4e; 6.4f; 6.4h; 6.4l	1.2.3.6
4.2.3.6.3	Training Materials	6.2g; 6.3.4; 6.4e. 6.4f; 6.4h; 6.4l	1.2.3.6
4.2.3.6.4	Training Delivery	6.2g; 6.3.4; 6.4e; 6.4f; 6.4h; 6.4l	1.2.3.6
4.2.3.7	Operational/Site Activation	6.2h; 6.3.1-S4; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o; 6.4p	1.2.3.7
4.2.3.7.1	Installation Plan	6.2h; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o	1.2.3.7
4.2.3.7.1.1	Facilities Management.	6.2h; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o	1.2.3.7
4.2.3.7.1.2	Installation Drawings.	6.2h; 6.3.4; 6.4d; 6.4f; 6.4h; 6.4l; 6.4o	1.2.3.7
4.2.4	HSIN NextGen Operations and Maintenance (O&M) Support	3.0; 4.0; 5.0; 6.0	1.2.4
4.2.4.1	Program Management	6.2a; 6.2b; 6.2c; 6.2h; 6.3.1-O&M 6.3.2; 6.3.3; 6.3.4; 6.4	1.2.4.1
4.2.4.2	Help Desk Services	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.2.4.2
4.2.4.3	Tier II – System Administration	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.2.4.3
4.2.4.4	Tier III – Infrastructure & Network Services	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.2.4.4
4.3	OPTION 2	3.0; 4.0; 5.0; 6.0	1.3
4.3.1	Program and Technical Management	3.0; 4.0; 5.0; 6.0	1.3.1
4.3.1.1	Program Planning and Execution	6.1; 6.2; 6.3; 6.4	1.3.1.1
4.3.1.2	Earned Value Management Systems (EVMS).	6.2a; 6.2c; 6.4m	1.3.1.2
4.3.1.3	Subcontract Management	6.2a; 6.2c	1.3.1.3
4.3.1.4	Configuration Management	6.2a; 6.2c; 6.4n; 6.4o	1.3.1.4
4.3.1.5	Program Quality Assurance	6.2e; 6.4p; 6.4q; 6.4r	1.3.1.5
4.3.1.6	Program Reviews	6.2a; 6.2c; 6.2e	1.3.1.6

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PWS Section	n PWS Task	SOO	CW
4.3.1.7	Performance Measures	6.2a; 6.2c; 6.2e	1.3.1.7
4.3.2	HSIN NextGen Operations and Maintenance (O&M) Support	3.0; 4.0; 5.0; 6.0	1.3.2
4.3.2.1	Program Management	6.2a; 6.2b; 6.2c; 6.2h; 6.3.1-O&M 6.3.2; 6.3.3; 6.3.4; 6.4	1.3.2.1
4.3.2.2	Help Desk Services	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.3.2.2
4.3.2.3	Tier II – System Administration	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.3.2.3
4.3.2.4	Tier III – Infrastructure & Network Services	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.3.2.4
1.4	OPTION 3	3.0; 4.0; 5.0; 6.0	1.4
4.4.1	Program and Technical Management	3.0; 4.0; 5.0; 6.0	1.4.1
4.4.1.1	Program Planning and Execution	6.1; 6.2; 6.3; 6.4	1.4.1.1
4.4.1.2	Earned Value Management Systems (EVMS)	6.2a; 6.2c; 6.4m	1.4.1.2
4.4.1.3	Subcontract Management	6.2a; 6.2c	1.4.1.3
4.4.1.4	Configuration Management	6.2a; 6.2c; 6.4n; 6.4o	1.4.1.4
4.4.1.5	Program Quality Assurance	6.2e; 6.4p; 6.4q; 6.4r	1.4.1.5
4.4.1.6	Program Reviews	6.2a; 6.2c; 6.2e	1.4.1.6
4.4.1.7	Performance Measures	6.2a; 6.2c; 6.2e	1.4.1.7
1.4.2	HSIN NextGen Operations and Maintenance (O&M) Support	3.0; 4.0; 5.0; 6.0	1.4.2
1.4.2.1	Program Management	6.2a; 6.2b; 6.2c; 6.2h; 6.3.1-O&M 6.3.2; 6.3.3; 6.3.4; 6.4	1.4.2.1
4.4.2.2	Help Desk Services	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.4.2.2
1.4.2.3	Tier II – System Administration	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.4.2.3
1.4.2.4	Tier III - Infrastructure & Network Services	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.4.2.4
4.5	OPTION 4	3.0; 4.0; 5.0; 6.0	1.5
4.5.1	Program and Technical Management	3.0; 4.0; 5.0; 6.0	1.4.1
1.5.1.1	Program Planning and Execution	6.1; 6.2; 6.3; 6.4	1.4.1.1
1.5.1.2	Earned Value Management Systems (EVMS)	6.2a; 6.2c; 6.4m	1.4.1.2
4.5.1.3	Subcontract Management	6.2a; 6.2c	1.4.1.3
4.5.1.4	Configuration Management	6.2a; 6.2c; 6.4n; 6.4o	1.4.1.4
1.5.1.5	Program Quality Assurance	6.2e; 6.4p; 6.4q; 6.4r	1.4.1.5
1.5.1.6	Program Reviews	6.2a; 6.2c; 6.2e	1.4.1.6
4.5.1.7	Performance Measures	6.2a; 6.2c; 6.2e	1.4.1.7
1.5.2	HSIN NextGen Operations and Maintenance (O&M) Support	3.0; 4.0; 5.0; 6.0	1.4.2
1.5.2.1	Program Management	6.2a; 6.2b; 6.2c; 6.2h; 6.3.1-O&M 6.3.2; 6.3.3; 6.3.4; 6.4	1.4.2.1
1.5.2.2	Help Desk Services	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.4.2.2
1.5.2.3	Tier II – System Administration	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.4.2.3
1.5.2.4	Tier III – Infrastructure & Network Services	6.2e; 6.2g; 6.2h; 6.3.1-O&M 6.3.4; 6.4d; 6.4f	1.4.2.4
5	PERFORMANCE STANDARDS	3.0; 4.0; 5.0; 6.0	N/A
5	INCENTIVES	N/A	N/A

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***	PWS/SOO/CWBS Cro	oss Reference Matrix	
PWS Sec	tion PWS Task	S00	CWBS
7	DELIVERABLES AND DELIVERY SCHEDULE	3.0; 4.0; 5.0; 6.0	N/A
8	GOVERNMENT-FURNISHED EQUIPMENT AND	2.0; 3.0; 4.0	N/A
	INFORMATION		
9	PLACE OF PERFORMANCE	2.0; 3.0; 4.0	N/A
9.1	TRAVEL REQUIREMENTS	3.0; 4.0; 5.0; 6.0	N/A
10	PERIOD OF PERFORMANCE	3.0; 4.0; 5.0; 6.0	N/A
11	SECURITY	3.0; 4.0; 5.0; 6.0	N/A
12	QUALITY ASSURANCE SURVEILLANCE PLAN	N/A	N/A
13	PEFORMANCE MEASUREMENT SUMMARY	N/A	N/A
14	PWS/SOO/FRD CROSS REFERENCE MATRIX	N/A	N/A
15	CONTRACTOR WORK BREAKDOWN STRUCTURE		
16	PWS/SOO/CWBS CROSS REFERENCE MATRIX	N/A	N/A

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AMENDMENT	OF SOLICITATION/MODIFIC	ATION OF C	ONTRACT		1. CONTRA	CT ID CODE	P	AGE OF PAGES		
2. AMENDMENT/M	ODIFICATION NO.	3. EFFECTIVE	DATE	4. REC	<u>I</u> IUGWOITIZIÙL	RCHASE REQ. NO.	5. PRO	JECT NO. (If applicable)		
P00001		06/09/2008 See Schedule								
6 ISSUED BY	CODE	DHS/OPO	'ITAC	7. ADMINISTERED BY (if other than Item 6) CODE DHS/OPO/ITAC						
Department	Department of Homeland Security					of Homeland Se	_			
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8. NAME AND ADD	RESS OF CONTRACTOR (No., 2004)	, county, State are	ZIP Code)	(x) 9/	. AMENDMEN	FOF SOLICITATION NO.				
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liems 8 and 15, separate letter of THE PLACE DE value of this am	or relegram which includes a reference ESIGNATED FOR THE RECEIPT OF rendment you desire to change an office	ples of the amed to the solicitation OFFERS PRIOI or already submi	ndment; (6) By acknowle on and amendment num R TO THE HOUR AND E illed, such change may t	bers. F DATESI bernade	eceipt of this an AILURE OF YO PECIFIED MAY	rendment on each copy of the FUR ACKNOWLEDGEMENT RESULT IN REJECTION O	he offer subm T TO BE REC DF YOUR OFI	ited; or (c) By EIVED AT FER. If by		
	n and this amendment, and is received AND APPROPRIATION DATA (If re-				crease:		62 507	7,814.40		
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1	3. THIS ITEM ONLY APPLIES TO MO	DIFICATION O	CONTRACTS/ORDERS	3. IT MC	OFFICE THE C	ONTRACT/ORDER NO. AS	DESCRIBED	IN ITEM 14.		
CHECK ONE	THIS CHANGE ORDER IS ISSUED.	PURSUANT TO	: /Snecify authority). TH	E CHAP	VICES SET FOR	THE IN ITEM 14 ARE MADE	IN THE CON	JIRACT		
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Ð	THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORT	CT/ORDER IS I H IN ITEM 14, F	MODIFIED TO REFLECT URSUANT TO THE AU	THE A	CMINISTRATION OF FAR 43.	/E CHANGES (such as che 103(b).	nges in payin	g office.		
- c	THIS SUPPLEMENTAL AGREEMEN	NT IS ENTERED	INTO PURSUANT TO	AÚTHO	RITY OF:	······································				
	AR 52.243-2 Changes		Reimbursemen	nt (AUG 1987)						
Δ	OTHER (Specify type of modification	and authority)								
					 					
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B. The to	tal obligated amou	unt has	been increa	sed	by \$2,5	97,814.40 from	m \$10,0	100,000 to		
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Continued	i		•							
	ed herein, all terms and conditions of I	he document re	ferenced in Item 9A or 1							
15A, NAME AND	TITLE OF SIGNER (Type or print)	1 1		16.	A NAME AND	TITLE OF CONTRACTING	OFFICER (T	rpe or print)		
	Laura Walsh-Steinman,	Lead Contr		Pı	irnell D	rew				
15B. CONTRAC	TOR/OFFEROR		15C. DATE SIGNED	16.	3, U'""" STA	TES OF AMERICA		16C. DATE SIGNED		
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CONTINUATION SHEET REFERENCE NO. OF DOCUMENT BEING CONTINUED HSHQDC-06-D-00024/HSHQDC-08-J-00134/P00001

PAGE 2

NAME OF OFFEROR OR CONTRACTOR

GENERAL DYNAMICS ONE SOURCE LLC

ITEM NO.	SUPPLIESISERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Department of Homeland Security				
	245 Murray Lane	ļ			
	Bldg, 410	[1		
	Washington DC 20528				
	FOB: Destination				
	Change Item 0001 to read as follows(amount shown is the obligated amount):				
0001	Chan				
0001	CPFF Engineering support to the HSIN Next Generation				2,597,814.40
	in accordance with the attached Performance Work				
ş	Starement (EWS) dated April 14, 2008 and the				
	Eunctional Requirements Document (FRD) dated		i I		
125	March: 11 2008				
4	Estimated chart (b(4)				
ģ	Fixed Fee (b(Y))]]	
	Total CPPF \$18;948;405				}
	Total Line Item Value\$18,948,405,00		1		
	Product/Service Code: R425				
	Product/Service Description: ENGINEERING &		1 1	ı	
	TECHNICAL SERVICES				
	Requisition No: ROOP-08-00054, RPPD-07-00065, RPPD-07-00065		i I		
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Section D - Packaging and Marking

D.1 - Packaging and Marking

Packaging and marking shall be performed in accordance with the instructions of the basic EAGLE contract.

Section E - Inspection and Acceptance

E.1 - Inspection and Acceptance

EAGLE sections E.1 and E.2 FAR clauses incorporated by reference.

E.2 - Inspection and Acceptance - Quality Assurance

As a performance based task order, the contractor identified performance measures and metric/service level agreements will form the basis of the inspection and acceptance Quality Assurance program.

Using the contractor provided metrics, the Government and the contractor will agree on a Quality Assurance framework, and methodology to establish initial performance levels and the ongoing performance level management. The Governance framework will continuously seek to refine, allocate and adjust service levels to reflect changes in priority and to ensure that throughout the life of this agreement that the program delivers improved performance and reduced cost.

E.3 - Place of Inspection and Acceptance

Inspection and acceptance of all work performed, reports, and other deliverables under this task order shall be performed by the Contracting Officer's Technical Representative (COTR) in accordance paragraphs E.4 through E.8.

E.4 - Scope of Inspection

All deliverables will be inspected for content, completeness, accuracy and conformance to the task order requirements by the COTR.

E.5 - Basis of Acceptance

- a. The basis for acceptance of services will be in compliance with the best commercial practices and those requirements provided in the task order.
- b. Items such as Other Direct Costs (ODC) (e.g. travel, equipment purchases) must be approved in advance. Request for ODC purchases must include a ROM estimate. ODCs will be accepted upon receipt of proper documentation as specified in the performance work statement (PWS).
- c. Reports, documents, and narrative type deliverables will be accepted when all discrepancies, errors, or other deficiencies identified in writing by the Government have been corrected.

- d. The contractor shall provide electronic copies of each deliverable. Electronic copies shall be delivered via email attachment or other media by mutual agreement of the parties. The electronic copies shall be compatible with MS Office 2000 or other applications as appropriate and mutually agreed to by the parties.
- e. The contractor shall use best commercial practice for formatting deliverables under this contract.
- f. All of the Government's comments on deliverables must either be incorporated in the succeeding version or the contractor must demonstrate to the Government's satisfaction why such comments should not be incorporated.
- g. If the Government finds that a draft or final deliverable contains spelling errors, grammatical errors, improper format, or otherwise does not conform to the requirements stated within this solicitation, the document may be immediately rejected without further review and returned to the contractor for correction and re-submission. If the contractor requires additional Government guidance to produce an acceptable draft, the contractor shall arrange a meeting with the COTR.
- h. For software development, the final acceptance of the software program will occur when all discrepancies, errors or other deficiencies identified in writing by the Government have been resolved, either through documentation updates, program correction, or other mutually agreeable methods.

E.6 - Draft Deliverables

The Government will provide written acceptance, comments and/or change requests, if any, within 15 working days from receipt by the Government of each initial deliverable. Upon receipt of the Government comments, the contractor shall have 15 working days to incorporate the government's comments and/or change requests and to resubmit the deliverable in its final form.

E.7 - Written Acceptance

The Government shall provide written notification of acceptance or rejection of all final deliverables within thirty (30) calendar days of receipt. All notifications of rejection will be accompanied with an explanation of the specific deficiencies causing the rejection. The contractor shall assume acceptance if not notified by the Government within thirty (30) calendar days.

E.8 – Non-Conforming Products or Services

Non-conforming products or services will be rejected. Deficiencies will be corrected within 30 calendar days of the rejection notice. If the deficiencies cannot be corrected within 30 calendar days, the contractor will immediately notify the COTR of the reason for the delay and provide a proposed corrective action plan within ten (10) working days of notification.

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Section F - Deliveries and Performance

F.1 - Period of Performance

The task order's basic period of performance shall be from May 27, 2008 – May 26, 2009. Beyond the base period, there are four one-year option periods. Taken together with the base period and option periods, the task order term may last for a total period not to exceed five years.

Periods of Task Order Performance to begin as follows:

Base Period: May 27, 2008 – May 26, 2009 Option Year 1: May 27, 2009 – May 26, 2010 Option Year 2: May 27, 2010 – May 26, 2011 Option Year 3: May 27, 2011 – May 26, 2012 Option Year 4: May 27, 2012 – May 26, 2013

F.2 - Option to Extend the Term of the Contract

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

- (a) The Government may extend the term of this contract by written notice to the Contractor within 30 days; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 60 days before the contract expires. The preliminary notice does not commit the Government to an extension.
- (b) If the Government exercises this option, the extended contract shall be considered to include this option clause.
- (c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 60 months, excluding an extension under 52.217-8.

F.3 - Place of Performance

The primary place of performance for the HSIN NextGen task order contractor shall be at the contractor's facility which is required to be located within the National Capital Region, or a fifty mile radius of the DHS Office of Operations Coordination (OPS), currently at the Nebraska Avenue Complex (NAC) in NW Washington DC. HSIN NextGen system build activities shall be conducted at the DHS Data Centers (to be determined) and HSIN NextGen testing tasks may require periods of travel to one or more of the DHS HSIN NextGen stakeholder offices located in the continental United States, United States territories, and internationally.

Section G - Contract Administration Data

G.1 - Contracting Officer

The TO Contracting Officer (TO CO) is the only person authorized to make any changes, approve any changes in the requirements of this Task Order, obligate funds and authorize the expenditure of funds, and notwithstanding any provisions contained elsewhere in this task order, the said authority remains solely in the TO CO. In the event the contractor makes any changes at the direction of any person other than the TO CO, the change will be considered to have been without authority and no adjustment will be made in the task order price to cover any increase in costs occurred as a result thereof. It is incumbent on the Contractor to make sure that this requirement is enforced, or work performed will be performed at the Contractor's own risk.

The following TO Contracting Officer is assigned to this Task Order:

TO Contracting Officer:

NAME: Purnell Drew PHONE NO.: (202) 447-(6(2) 5 EMAIL: (6(2) 6(6))

- G.2 Contracting Officer's Technical Representative (COTR)
 COTR (HSAR 3052.242-72)(DEC 2003)
- (a) The Contracting Officer may designate Government personnel to act as the Contracting Officer's Technical Representative (COTR) to perform functions under the task order such as review or inspection and acceptance of supplies, services, including construction, and other functions of a technical nature. The Contracting Officer will provide a written notice of such designation to the Contractor within five working days after task order award. The designation letter will set forth the authorities and limitations of the COTR under the task order.
- (b) The principal role of the COTR is to support the Contracting Officer in managing the work conducted under Section C of this Task Order. This is done through furnishing technical direction within the confines of the task order, monitoring performance, ensuring requirements are met within the terms of the task order, and maintaining a strong relationship with the Contracting Officer. As a team, the Contracting Officer and COTR must ensure that program requirements are clearly communicated and that the services are performed to meet them.
- G.3 Contracting Officer's Technical Representative Designation The following TO COTR is assigned to this Task Order:

NAME: (6(2) 6(6))
PHONE NO.: (202) 447 (6(2))
EMAIL: (6(2) 6(4))

G.4 – Changes in COTR Designation(s)

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The COTR may be changed at any time by the Government without prior notice to the Contractor. Notification of the change, including the name and phone number of the successor COTR, will be promptly provided to the Contractor by the TO Contracting Officer in writing.

G.5 - Invoice Submission - Data Elements

The data elements indicated below shall be included on each invoice. Details and format of invoices shall be consistent with structure specified by the COTR.

Vendor Name

Invoice Number

Invoice Date

Date of Service/Product provided

Payment/Vendor Address, Telephone Number, Other Contact information

Task Order Month

Fiscal Year

Payment Due Date

Contract Number

Task Order Number

Work Order number (if applicable)

DHS Functional/Budget Code/Accounting Data

Cumulative Value to Date

Total Amount Invoiced

Vendor Point-of-Contact

DHS Point-of-Contact

Grand Total per Invoice

Page Numbers

Shipping and Payment term

G.6 - Invoice Submission - Material Order Status Report

A report of all material/labor billed to DHS is required each month to track outstanding equipment in the "field" or residing at DHS HQ. The report shall include a status of the DHS 700-21 Material Inspection and Receiving Report, a government Point-of-Contact (POC), the equipment delivery location, equipment operational location, cost of each unit, lease duration/useful life, date of acquisition, type of equipment, system capabilities/specifications, and the bureau the equipment is supporting. The data must be provided in an application that is consistent with DHS approved software, preferably Microsoft Excel or Microsoft Access format.

G.7 - Electronic Invoice Submission

Electronic invoices must be submitted to the following email addresses within thirty days of services rendered:

All invoices must be submitted to: OCPDAcquisition@hq.dhs.gov

612/6(4)

In addition:

Invoices for Requisition Number RPPD-07-00065 shall be submitted to: www.DOB-Invoice@DHS.GOV .

Invoices for Requisition Number ROOP-08-00054 shall be submitted to: $(\ \ \ \ \ \ \ \)$ and $(\ \ \ \ \ \ \ \ \)$.

G.8 - Travel

Travel Regulations

As required by EAGLE Contract section H.6.1, the contractor shall comply with the guidance in FAR 31.205-46 using the regulations specified below.

- a. Federal Travel Regulations (FTR) prescribed by the General Services Administration, for travel in the contiguous United States.
- b. Joint Travel Regulations (JTR), Volume 2, DoD Civilian Personnel, Appendix A. prescribed by the Department of Defense, for travel in Alaska, Hawaii, and outlying areas of the United States.
- c. Department of State Standardized Regulations (DSSR) (Government Civilians, Foreign Areas), Section 925, "Maximum Travel Per Diem Allowances for Foreign Areas", prescribed by the Department of State, for travel in areas not covered in the FTR or JTR.

Travel Authorization Requests

Prior to any long distance travel, the contractor shall prepare a Travel Authorization Request for Government review and COTR approval. The contractor shall use only the minimum number of travelers and rental cars needed to accomplish the task(s). Travel shall be scheduled during normal duty hours whenever possible.

Content of Travel Requests

Requests for travel approval shall contain:

Date, time and points of departure

Destination, time and dates of arrival

Name of each contractor employee and position title

Include a description of the travel proposed including a statement as to purpose

Identify the Task Order number

Identify the CLIN(s) associated with the travel

Be submitted in advance of the travel with sufficient time to permit review and approval.

G.9 - Incremental Funding

- (1) The contractor is required to comply with the terms and conditions of the contract in accordance with FAR Clause 52.232-22, Limitation of Funds. A total of \$12,597,814.40 has been provided as incremental funding. The amount of (b(4)) been allotted to cover the costs incurred in the performance of the services specified in the PWS. An additional (b(4)) has been allotted to cover the fixed fee.
- (2) In accordance with the Limitation of Funds clause, the Government shall not be obligated to reimburse the contractor for any costs (including termination costs) in excess of the above-stated amount and the contractor will not be obligated to continue performance or incur cost in excess of the above-stated amount until additional funds are made available by the issuance of a unilateral modification from the Contracting Officer. In accordance with paragraph B of the Limitation of Funds clause ((((4))) has been allotted to cover the costs and fee incurred in the performance of the services specified in the SOW.

(3) The above funds are estimated to cover the period from date of task order award through **January 23, 2009**.

Section H - Special Task Order Provisions

H.1 - General

The contractor shall comply with the terms and conditions of the EAGLE contract in addition to the special provisions set forth in the Task Order RFP.

H.2 - Key Personnel

Under H.2, KEY PERSONNEL, paragraph (b) of the basic contract, the following personnel are determined to be key personnel within the meaning of the provision:

NAME POSITION Program Manager Chief Architect Development/Integration Manager Operations Manager

H.3 - Security Requirements

All of the effort to be performed by this task order will require access/protection of **Secret** information/data. The contractor shall ensure that all appropriate security and protection actions are taken (including providing personnel and procedures) consistent with the task security requirements.

The contractor will have access to and be working with information that is sensitive but unclassified, as defined by the Computer Security Act of 1987. Furthermore, the information is subject to the provisions of the Privacy Act (or any other appropriate law that applies to the information to be handled). This information will be treated as confidential information.

If the contractor is to perform work at their site:

The contractor's facility and ADP systems are required to be accredited and certified in accordance with OMB Circular A-130 Appendix III. Contact DHS' Information System Security Office for additional information.

- H.4 Mandatory Security Requirement Security Requirements for **Secret** Information Technology Resources
- (a) The Contractor shall be responsible for Information Technology (IT) security for all systems connected to a DHS network or operated by the Contractor for DHS, regardless of location. This clause applies to all or any part of the contract that includes information technology resources or services for which the Contractor must have physical or electronic access to sensitive information contained in DHS unclassified systems that directly support the

agency's mission.

- (b) The Contractor shall provide, implement, and maintain an IT Security Plan. This plan shall describe the processes and procedures that will be followed to ensure appropriate security of IT resources that are developed, processed, or used under this contract.
- (1) Within 30 days after contract award, the contractor shall submit for approval its IT Security Plan, which shall be consistent with and further detail the approach contained in the offeror's proposal. The plan, as approved by the Contracting Officer, shall be incorporated into the contract as a compliance document.
- (2) The Contractor's IT Security Plan shall comply with Federal laws that include, but are not limited to, the Computer Security Act of 1987 (40 U.S.C. 1441 et seq.); the Government Information Security Reform Act of 2000; and the Federal Information Security Management Act of 2002; and with Federal policies and procedures that include, but are not limited to, OMB Circular A-130.
- (3) The security plan shall specifically include instructions regarding handling and protecting sensitive information at the Contractor's site (including any information stored, processed, or transmitted using the Contractor's computer systems), and the secure management, operation, maintenance, programming, and system administration of computer systems, networks, and telecommunications systems.
- (c) Examples of tasks that require security provisions include--
- (1) Acquisition, transmission or analysis of data owned by DHS with significant replacement cost should the contractor's copy be corrupted; and
- (2) Access to DHS networks or computers at a level beyond that granted the general public (e.g., such as bypassing a firewall).
- (d) At the expiration of the contract, the contractor shall return all sensitive DHS information and IT resources provided to the contractor during the contract, and certify that all non-public DHS information has been purged from any contractor-owned system. Components shall conduct reviews to ensure that the security requirements in the contract are implemented and enforced.
- (e) Within 6 months after contract award, the contractor shall submit written proof of IT Security accreditation to DHS for approval by the DHS Contracting Officer. Accreditation will proceed according to the criteria of the DHS Sensitive System Policy Publication, 4300A (Version 2.5, September 30, 2007) or any replacement publication, which the Contracting Officer will provide upon request. This accreditation will include a final security plan, risk assessment, security test and evaluation, and disaster recovery plan/continuity of operations plan. This accreditation, when accepted by the Contracting Officer, shall be incorporated into the contract as a compliance document. The contractor shall comply with the approved accreditation documentation.

H.5 - Mandatory Security Requirement - Security Review

The Government may elect to conduct periodic reviews to ensure that the security requirements contained in this contract are being implemented and enforced. The Contractor shall afford DHS including the Office of Inspector General, Contracting Officers Technical Representative (COTR), and other government oversight organizations, access to the Contractor's facilities, installations, operations, documentation, databases, and personnel used in the performance of this contract. Access shall be provided to the extent necessary for the government to carry out a program of inspection, investigation, and audit to safeguard against

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threats and hazards to the integrity, availability, and confidentiality of DHS data or the function of computer systems operated on behalf of DHS, and to preserve evidence of computer crime.

H.6 – Mandatory Security Requirement – Access to **Secret** Facilities, Information Technology Resources, and Sensitive Information

The assurance of the security of **Secret** facilities, Information Technology (IT) resources, and sensitive information during the acquisition process and contract performance are essential to the DHS mission. DHS Management Directive (MD) **11041** Protection of Classified National Security Information Program Management, describes how contractors must handle classified information. DHS MD 4300.1 Information Technology Systems Security and the DHS Sensitive Systems Handbooks prescribe policies and procedures on security for IT resources. Compliance with these policies and procedures, any replacement publications, or any other current or future DHS policies and procedures covering contractors is required for all work performed under this contract. Contractors shall not use or redistribute any DHS information processed, stored, or transmitted by the contractor except as specified in the task order.

H.7 - Mandatory Security Requirement - Interconnection Security Agreements

Interconnections between DHS and non-DHS IT systems shall be established only through controlled interfaces and via approved service providers. The controlled interfaces shall be accredited at the highest security level of information on the network. Connections with other Federal agencies shall be documented based on interagency agreements, memoranda of understanding, service level agreements or interconnect service agreements.

Components shall document interconnections with other external networks with an Interconnection Security Agreement (ISA). Interconnections between DHS Components shall require an ISA when there is a difference in the security categorizations for confidentiality, integrity, and availability for the two networks. ISAs shall be signed by both DAAs or by the officials designated by the DAA.

H.8 - Associate Contractors

Performance of this effort may require the task order contractor to work closely with other contractors. The close interchange with associate contractor(s) may require access to, or release of, proprietary or limited/restricted rights data. To facilitate close cooperation and maximum effectiveness, the Contractor shall enter into agreement(s) with associate contractors to adequately protect such data from unauthorized use or disclosure.

H.9 - Drug-Free Workplace

Performance under any task order resulting from this Request for Proposal shall be in accordance with FAR 52.223-6 Drug-Free Workplace.

H.10 - Contractor Personnel - Employment Eligibility

The Contractor will ensure that each employee and potential employee provide his/her name and verify their identity. The Contractor shall be responsible to the Government for acts and omissions of his employees as well as Subcontractor(s) and their employees.

Subject to existing law, regulations and/or other provisions of this contract, illegal or undocumented aliens shall not be employed by the Contractor or perform on this contract. The Contractor shall ensure this provision is expressly incorporated into any and all subcontracts or subordinate agreements issued in support of this contract.

DHS OPS has determined that performance of this contract requires the Contractor, subcontractor(s), vendor(s), etc. (herein known as Contractor), access to **Secret** information. Contractor employees that do not have a security clearance and require access to **Secret** information will be given a suitability determination. Requirements for suitability determination are defined in Section H.15.

H.11 - Contractor Personnel - Continued Eligibility

If a prospective employee is found to be ineligible for access to DHS facilities or information, the Contracting Office Technical Representative (COTR) will advise the Contractor that the employee shall not continue to work or be assigned to work under the contract.

DHS reserves the right to deny and/or restrict entrance to government facilities, prohibit employees from assigned work under the contract, deny and/or restrict handling of classified documents/material to any Contractor employee who DHS determines to present a risk of compromising sensitive Government information.

The Contractor shall report to the DHS Office of Security any and all adverse information brought to their attention concerning employees performing under this contract. Reports based on rumor or innuendo shall not be included. The subsequent termination of employment of an employee does not obviate the requirement to submit this report. The report shall include the employee's name and social security number, along with the adverse information being reported.

H.12 - Contractor Personnel - Termination

The COTR shall be notified of all terminations/resignations within five (5) days of occurrence. The Contractor shall return to the COTR all DHS issued identification cards and building passes that have either expired or have been collected from terminated employees. If an identification card or building pass is not available to be returned, a report shall be submitted to the COTR, referencing the pass or card number, name of individual to who it was issued and the last known location and disposition of the pass or card.

H.13 - Contractor Personnel - Suitability Determination

DHS shall exercise full control over granting, denying, withholding or terminating unescorted government facility and/or access to or handling of both classified and sensitive Government information to Contractor employees based upon the results of a background investigation. DHS may, as it deems appropriate, authorize and grant a favorable entry on duty (EOD) decision based on preliminary security checks. The favorable EOD decision would allow the employees to commence work temporarily prior to the completion of the full investigation. The granting of a favorable EOD decision shall not be considered as assurance that a full

employment suitability authorization will follow as a result thereof. The granting of a favorable EOD decision or a full employment suitability determination shall in no way prevent, preclude, or bar the withdrawal or termination of any such access by DHS, at any time during the term of the task order. No employee of the Contractor shall be allowed unescorted access to a DHS facility without a favorable EOD decision or suitability determination by the DHS Office of Security.

H.14 - Contractor Personnel - Background Investigation

Contract employees (to include applicants, temporaries, part-time and replacement employees) under the contract, requiring access to sensitive information, shall undergo a position sensitivity analysis based on the duties, outlined in the Position Designation Determination (PDD) for Contractor Personnel, each individual will perform on the contract. The results of the position sensitivity analysis shall identify the appropriate background investigation to be conducted. All background investigations will be processed through OSI. Prospective Contractor employees shall submit the following completed forms to OSI through the COTR no less than thirty (30) days before the start date of the contract or thirty (30) days prior to entry on duty of any employees, whether a replacement, addition, subcontractor employee, or vendor:

- a. Standard Form 85P, "Questionnaire for Public Trust Positions"
- b. FD Form 258, "Fingerprint Card" (2 copies)
- c. DHS Form 11000-6, "Conditional Access To Sensitive But Unclassified Information Non-Disclosure Agreement"
- d. DHS Form 11000-9, "Disclosure and Authorization Pertaining to Consumer Reports Pursuant to the Fair Credit Reporting Act"
- e. Position Designation Determination for Contract Personnel Form
- f. Foreign National Relatives or Associates Statement

Required forms will be provided by DHS at the time of award of the contract. Only complete packages will be accepted by DHS Office of Security. Specific instructions on submission of packages will be provided upon award of the task order.

Be advised that unless an applicant requiring access to sensitive information has resided in the US for three of the past five years, the Government may not be able to complete a satisfactory background investigation. In such cases, DHS retains the right to deem an applicant as ineligible due to insufficient background information.

The use of Non-U.S. citizens, including Lawful Permanent Residents (LPRs), is not permitted in the performance of this contract for any position that involves access to or development of any DHS Information Technology (IT) systems. DHS OPS will consider only U.S. Citizens and LPRs for employment on this task order. DHS OPS will not approve LPRs for employment on this task order in any position that requires the LPR to access or assist in the development operation, management or maintenance of DHS IT systems. By signing this task order, the Contractor agrees to this restriction. In those instances where other non-IT requirements contained in the contract can be met by using LPRs, those requirements shall be clearly described.

H.15 - Contractor Personnel - Information Technology Security Clearance

When sensitive government information is processed on DHS telecommunications and automated information systems, the Contractor shall provide for the administrative control of sensitive data being processed and adhere to the procedures governing such data as outlined in "DHS IT Security Program – Publication DHS MD 4300.Pub". Contractor personnel must have favorably adjudicated background investigations commensurate with the defined sensitivity level.

Contractors who fail to comply with DHS security policy are subject to having their access to DHS IT systems and facilities terminated, whether or not the failure results in criminal prosecution. Any person who improperly discloses sensitive information is subject to criminal and civil penalties and sanctions under a variety of laws (e.g., Privacy Act).

H.16 Contractor Personnel – Information Technology Security Training and Oversight

All Contractor employees using DHS automated systems or processing DHS sensitive data shall be required to receive Security Awareness Training.

Contractors involved with management, use, or operation of any IT systems that handle sensitive information within or under the supervision of DHS, shall receive periodic training at least annually in security awareness and accepted security practices and systems rules of behavior. DHS Contractors, with significant security responsibilities, shall receive specialized training specific to their security responsibilities annually. The level of training shall be commensurate with the individual's duties and responsibilities and is intended to promote a consistent understanding of the principles and concepts of telecommunications and IT systems security.

All personnel who access DHS information systems will be continually evaluated while performing these duties. Supervisors should be aware of any unusual or inappropriate behavior by personnel accessing systems. Any unauthorized access, sharing of passwords, or other questionable security procedures should be reported to the DHS Security Office.

H.17 - Security Assurances

DHS Management Directive 4300 requires compliance with standards set forth by NIST, for evaluating computer systems used for processing **Secret** information. The Contractor shall ensure that requirements are allocated in the functional requirements and system design documents to security requirements are based on the DHS policy, NIST standards and applicable legislation and regulatory requirements. Systems shall offer the following visible security features:

User Identification and Authentication (I&A) – I&A is the process of telling a system the identity of a subject (for example, a user) (I) and providing that the subject is who it claims to be (A). Systems shall be designed so that the identity of each user shall be established prior to authorizing system access, each system user shall have his/her own user ID and password, and each user is authenticated before access is permitted. All system and database administrative users shall have strong authentication, with passwords that shall conform to established DHS standards. All DHS Identification and Authentication shall be done using the Password Issuance Control System (PICS) or its successor. Under no circumstances will Identification and Authentication be performed by other than the DHS standard system in use at the time of a systems development.

- Discretionary Access Control (DAC) DAC is a DHS access policy that restricts access
 to system objects (for example, files, directories, devices) based on the identity of the
 users and/or groups to which they belong. All system files shall be protected by a
 secondary access control measure.
- Object Reuse Object Reuse is the reassignment to a subject (for example, user) of a
 medium that previously contained an object (for example, file). Systems that use
 memory to temporarily store user I&A information and any other Secret information shall
 be cleared before reallocation.
- Audit DHS systems shall provide facilities for transaction auditing, which is the
 examination of a set of chronological records that provide evidence of system and user
 activity. Evidence of active review of audit logs shall be provided to the OPS IT Security
 Office on a monthly basis, identifying all security findings including failed log in attempts,
 attempts to access restricted information, and password change activity.
- Banner Pages DHS systems shall provide appropriate security banners at start up
 identifying the system or application as being a Government asset and subject to
 government laws and regulations. This requirement does not apply to public facing
 internet pages, but shall apply to intranet applications.

H.18 - Data Security

SBU systems shall be protected from unauthorized access, modification, and denial of service. The Contractor shall ensure that all aspects of data security requirements (i.e. confidentiality, integrity, and availability) are included in the functional requirements and system design, and ensure that they meet the minimum requirements as set forth in the DHS Sensitive Systems Handbook and policies and procedures. These requirements include:

- Integrity The computer systems used for processing SBU shall have data
 integrity controls to ensure that data is not modified (intentionally or
 unintentionally) or repudiated by either the sender or the receiver of the
 information. A risk analysis and vulnerability assessment shall be performed to
 determine what type of data integrity controls (e.g., cyclical redundancy checks,
 message authentication codes, security hash functions, and digital signatures,
 etc.) shall be used.
- Confidentiality Controls shall be included to ensure that SBU information collected, stored, and transmitted by the system is protected against compromise. A risk analysis and vulnerability assessment shall be performed to determine if threats to the SBU exist. If it exists, data encryption shall be used to mitigate such threats.
- Availability Controls shall be included to ensure that the system is continuously
 working and all services are fully available within a timeframe commensurate with
 the availability needs of the user community and the criticality of the information
 processed.
- Data Labeling. The contractor shall ensure that documents and media are labeled consistent with the DHS Sensitive Systems Handbook.

H.19 – DHS Information Technology Standards – Homeland Security Enterprise Architecture (HLS EA) Compliance

All solutions and services shall meet DHS Enterprise Architecture policies, standards, and procedures as it relates to this Task Order. Specifically, the contractor shall comply with the following Homeland Security Enterprise Architecture (HLS EA) requirements:

- All developed solutions and requirements shall be compliant with the HLS EA.
- All IT hardware or software shall be compliant with the HLS EA Technology Reference Model (TRM) Standards and Products Profile.
- All data assets, information exchanges and data standards, whether adopted or developed, shall be submitted to the DHS Enterprise Data Management Office (EDMO) for review and insertion into the DHS Data Reference Model.

H.20 - Section 508 of the Rehabilitation Act

Section 508 of the Rehabilitation Act, as amended by the Workforce Investment Act of 1998 (P.L. 105-220) requires that when Federal agencies develop, procure, maintain, or use electronic and information technology, they must ensure that it is accessible to people with disabilities. Federal employees and members of the public who have disabilities must have equal access to and use of information and data that is comparable to that enjoyed by non-disabled Federal employees and members of the public.

All EIT deliverables, including but not limited to IOE Implementation Plans, within this work statement shall indicate how compliance with Section 508 standards will be accomplished for both products and services and shall comply with the applicable technical and functional performance criteria of Section 508 unless exempt. Specifically, the following applicable standards have been identified:

36 CFR 1194.21 – Software Applications and Operating Systems, applies to all EIT software applications and operating systems procured or developed under this task order including but not limited to GOTS and COTS software. In addition, this standard is to be applied to Webbased applications when needed to fulfill the functional performance criteria. This standard also applies to some Web based applications as described within 36 CFR 1194.22.

36 CFR 1194.22 – Web-based Intranet and Internet Information and Applications, applies to all Web-based deliverables, including documentation and reports procured or developed under this task order. When any Web application uses a dynamic (non-static) interface, embeds custom user control(s), embeds video or multimedia, uses proprietary or technical approaches such as, but not limited to, Flash or Asynchronous Javascript and XML (AJAX) then "1194.21 Software" standards also apply to fulfill functional performance criteria.

36 CFR 1194.23 – Telecommunications Products, applies to all telecommunications products including end-user interfaces such as telephones and non end-user interfaces such as switches, circuits, etc. that are procured, developed or used by the Federal Government.

36 CFR 1194.24 – Video and Multimedia Products, applies to all video and multimedia products that are procured or developed under this work statement. Any video or multimedia presentation shall also comply with the software standards (1194.21) when the presentation is through the use of a Web or Software application interface having user controls available.

36 CFR 1194.25 – Self Contained, Closed Products, applies to all EIT products such as printers, copiers, fax machines, kiosks, etc. that are procured or developed under this task order. Specifically but not limited to items using biometrics as described in this work order shall apply with this requirement as well as any other technical standard involving the use of software or Web based interfaces.

36 CFR 1194.26 – Desktop and Portable Computers, applies to all desktop and portable computers, including but not limited to laptops and personal data assistants (PDA) that are procured or developed under this work statement.

36 CFR 1194.31 – Functional Performance Criteria, applies to all EIT deliverables regardless of delivery method. All EIT deliverable shall use technical standards, regardless of technology, to fulfill the functional performance criteria.

36 CFR 1194.41 – Information Documentation and Support, applies to all documents, reports, as well as help and support services. To ensure that documents and reports fulfill the required "1194.31 Functional Performance Criteria", they shall comply with the technical standard associated with Web-based Intranet and Internet Information and Applications at a minimum. In addition, any help or support provided in this task order that offer telephone support, such as, but not limited to, a help desk shall have the ability to transmit and receive messages using TTY.

Exceptions for this task order have been determined by DHS and only the exceptions described herein may be applied. Any request for additional exceptions shall be sent to the COTR and determination will be made in accordance with DHS MD 4010.2. DHS has identified the following exceptions that may apply:

36 CFR 1194.2(b) – (COTS/GOTS products), When procuring a product, each agency shall procure products which comply with the provisions in this part when such products are available in the commercial marketplace or when such products are developed in response to a Government solicitation. Agencies cannot claim a product as a whole is not commercially available because no product in the marketplace meets all the standards. If products are commercially available that meet some but not all of the standards, the agency must procure the product that best meets the standards.

When applying this standard, all procurements of EIT shall have documentation of market research that identify a list of products or services that first meet the agency business needs, and from that list of products or services, an analysis that the selected product met more of the accessibility requirements than the non-selected products as required by FAR 39.2. Any selection of a product or service that meets less accessibility standards due to a significant difficulty or expense shall only be permitted under an undue burden claim and requires approval from the DHS Office on Accessible Systems and Technology (OAST) in accordance with DHS MD 4010.2.

36 CFR 1194.3(b) – Incidental to Contract, all EIT that is exclusively owned and used by the contractor to fulfill this task order does not require compliance with Section 508. This exception does not apply to any EIT deliverable, service or item that will be used by any Federal employee(s) or member(s) of the public. This exception only applies to those contractors assigned to fulfill the obligations of this task order and for the purposes of this requirement, are not considered members of the public.

H.21 - Advertisements, Publicizing Awards, and News Releases

All press releases or announcements about agency programs, projects, and contract (task order) awards need to be cleared by the Program Office and the Contracting Officer. Under no circumstances shall the Contractor, or anyone acting on behalf of the Contractor, refer to the supplies, services, or equipment furnished pursuant to the provisions of this contract in any publicity news release or commercial advertising without first obtaining explicit written consent to do so from the Program Office and the Contracting Officer.

The Contractor agrees not to refer to awards in commercial advertising in such a manner as to state or imply that the product or service provided is endorsed or preferred by the Federal Government or is considered by the Government to be superior to other products or services.

Section I - Task Order Clauses

Federal Acquisition Regulation (48 CFR Chapter 1) Solicitation Clauses (http://www.arnet.gov/far/)

FAR Clause No.	Title	Date
52.251-1	Government Supply Sources	Apr 1984
52.204-2	Security Requirements	Aug 2006
52.204-9	Personal Identity Verification of	Sep 2007
	Contractor Personnel	
52.215-19	Notifications of Ownership Changes	Oct 1997
52.215-21	Requirements For Cost Or Pricing Data	Oct 1997
	Or Information Other Than Cost Or	
	Pricing Data – Modifications Alternate IV	
52.232-20	Limitation Of Costs	Apr 1984
52.232-22	Limitation Of Funds	Apr 1984
52.217-8	Option To Extend Services (Fill-in: 30	Nov 1999
	days)	
52.219-8	Utilization Of Small Business Concerns	May 2004
52.219-9	Small Business Subcontracting Plan	Sep 2006
52.227-14	Rights In Data – General Alternates IV	Jun 1987
	And V	
52.227-21	Technical Data Declaration Revision And	Jan 1997 .
	Withholding Of Payment – Major Systems	
52.232-18	Availability Of Funds	Apr 1984
52.237-3	Continuity of Services	Jan 1991
52.244-6	Subcontracts For Commercial Items	Mar 2007
52.245-1	Government Property	Jun 2007
52.245-2	Government Property Installation	Jun 2007
	Operation Services	

DHS AND FAR CLAUSES

Homeland Security Acquisition Regulation (HSAR) Clauses Incorporated By Reference (http://farsite.hill.af.mil/vfhsara.htm)

HSAR Clause No.	Title	Date
3052.204-70 (EAGLE I.2)	Security Requirements for	Dec 2003
	Unclassified Information]
	Technology Resources	
3052.204-71 (EAGLE I.13)	Contractor Employee Access	Jun 2006
3052.209-70 (EAGLE I.3	Prohibitions on Contracts with	Dec 2003
	Corporate Expatriates	
3052-209-72 (EAGLE H.33)	Organizational Conflict of	Jul 2004
	Interest	}
3052-209-73	Limitation of Future	Jul 2004
	Contracting	
3052.222-70	Strikes or Picketing Affecting	Dec 2003
	Timely Completion of the	
	Contract Work	
3052.222-71	Strikes or Picketing Affecting	Dec 2003
	Access to a DHS Facility	1
3052.245-70	Government Property Reports	Jun 2006
If Applicable (EAGLE Ref):		
3052.216-72 (I.7)	Performance Evaluation Plan	Dec 2003

⁻ END OF TASK ORDER PROVISIONS AND CLAUSES -

Section J - List of Attachments

List of Attachments

Attachment J-1 — Performance Work Statement

Attachment J-2 - Functional Requirements Document

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT					1. CONTRACT ID CODE		PAGE OF PAGES					
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DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION

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12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release Olirect Through (Spacify): NONE AUTHORIZED
UNLESS CONTRACTOR HAS OBTAINED AUTHORITY TO RELEASE FROM THE DEPARTMENT OF HOMELAND SECURITY: CONTRACTOR SHALL COORDINATE WITH THE COTR AND THE OFFICE OF SECURITY (ASD) ON ALL CHANGES TO THIS
GUIDANCE to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review. * In the case of non-DoD User
Agencies, requests for disclosure shall be submitted to that agency.
13. Security Guidance. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes: to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)
Reference 10j: "Contractors shall control and safeguard FOUO in accordance with DHS Directive (MD11042.1)
"Safeguarding Sensitive but Unclassified (For Official Use Only) Information," dated Jan 6, 2005. DHS contractors must
sign a special Non-Disclosure Agreement before receiving access to FOUO information. Contractors with questions on
handling DHS FOUO shall contact DHS OS ASD at (202) 447-5341."
Reference 11a: Contract performance is restricted to General Dynamics One Source, LLC 3211 Jermantown Road,
Fairfax, VA 22030, and at Department of Homeland Security (DHS), Nebraska Avenue Complex (NAC),
Washington, DC 20528 and various locations within the greater Washington, DC metropolitan area, National
Capitol Region and other Government facilities. Cleared personnel are required to perform this service. All
contractor personnel must: be U.S. citizens, have been granted a security clearance by the U.S. Government, have
been approved as meeting criteria by DHS CSO, and have been indoctrinated by a Non Disclosure Agreement,
Standard Form 312 for this specific program prior to being given any access to such information released or
generated under this contract. Immigrant aliens, personnel cleared on an interim basis, or personnel holding
contractor granted CONFIDENTIAL clearances, are not eligible for access to classified information released or generated under this contract. Classified material released or generated under this contract is not releasable to
foreign nationals without the expressed written permission of the CSO. Recipients of classified information
under this contract may not be released to subcontractors without permission of the DHS CSO.
under this contract may not be recased to subcontractors without permission of the DIIS CSO.
Yes No
14. ADDITIONAL SECURITY REQUIREMENTS. Requirements identify the partinent contracted clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the
cognizant security office. Use Item 13 if additional space is needed.)
15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. (If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use item 13 if additional space is needed.)
16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified
information to be released or generated under this classified effort. All questions shall be referred to the official named below.
JOSE J. SALAZAR b. TITLE c. TELEPHONE (include Area Gode) PROGRAM MANAGER, (202)-447-(6(2))
(202) HIVE INDUSTRIAL SECURITY
d. ADDRESS (Include Zip Code) 17. REQUIRED DISTRIBUTION
DEPARTMENT OF HOMELAND SECURITY X a. CONTRACTOR
301, 7TH & D ST. S.W.
WASHINGTON DC 20528 X c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR
e. SIGNATURE d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION
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