

**SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS
OFFEROR TO COMPLETE BLOCKS 12, 17, 23, 24, & 30**

1. REQUISITION NO. _____ PAGE 1 OF 176

2. CONTRACT NO. _____ 3. AWARD/EFFECTIVE DATE _____ 4. ORDER NO. _____
5. SOLICITATION NUMBER VA118-15-R-0567 6. SOLICITATION ISSUE DATE 9/17/15

7. FOR SOLICITATION INFORMATION CALL: a. NAME KEIAHNA BREWER, CONTRACT SPECIALIST b. TELEPHONE NO. (No Collect Calls) 732-440-9686 8. OFFER DUE DATE/LOCAL TIME 9/24/15

9. ISSUED BY Department of Veterans Affairs
Technology Acquisition Center
ATTN: Iris Farrell, Contracting Officer
23 Christopher Way
Eatontown NJ 07724
CODE _____

10. THIS ACQUISITION IS UNRESTRICTED OR SET ASIDE: _____ % FOR:
 SMALL BUSINESS WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOMEN-OWNED SMALL BUSINESS PROGRAM NAICS: 541511
 HUBZONE SMALL BUSINESS EDWOSB
 SERVICE-DISABLED VETERAN-OWNED SMALL BUSINESS 8(A) SIZE STANDARD: \$27.5M

11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED SEE SCHEDULE
12. DISCOUNT TERMS _____
13a. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 700)
13b. RATING N/A
14. METHOD OF SOLICITATION RFQ IFB RFP

15. DELIVER TO CODE _____ 16. ADMINISTERED BY CODE _____
Department of Veterans Affairs
Technology Acquisition Center
23 Christopher Way
Eatontown NJ 07724

17a. CONTRACTOR/OFFEROR CODE _____ FACILITY CODE _____ 18a. PAYMENT WILL BE MADE BY CODE _____
See Section B.3 Contract Administration Data
TELEPHONE NO. _____ DUNS: _____ DUNS+4: _____ PHONE: _____ FAX: _____

17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER 18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED SEE ADDENDUM

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
	<p>Veterans Point of Service Veterans Health Information Systems and Technology Architecture (VistA) Services Assembler VistA Javascript Pilot and Initial Operating Capability Rollout</p> <p>The period of performance is 12 months, with 9 optional tasks</p> <p>See Section B for a list of required deliverables.</p> <p>Points of Contact: Keiahna Brewer, Contract Specialist Keiahna.Brewer@va.gov 732-440-9686</p> <p>Iris Farrell, Contracting Officer Iris.Farrell@va.gov 732-440-9661</p> <p align="center">(Use Reverse and/or Attach Additional Sheets as Necessary)</p>				

25. ACCOUNTING AND APPROPRIATION DATA _____ 26. TOTAL AWARD AMOUNT (For Govt. Use Only) _____

27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA ARE ARE NOT ATTACHED.
 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA ARE ARE NOT ATTACHED

28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN _____ COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED
 29. AWARD OF CONTRACT: REF. _____ OFFER DATED _____ YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN IS ACCEPTED AS TO ITEMS:

30a. SIGNATURE OF OFFEROR/CONTRACTOR _____ 31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT) _____ 30c. DATE SIGNED _____ 31b. NAME OF CONTRACTING OFFICER (TYPE OR PRINT) Iris Farrell Contracting Officer 31c. DATE SIGNED _____

Table of Contents

SECTION A	1
A.1 SF 1449 SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS.....	1
SECTION B - CONTINUATION OF SF 1449 BLOCKS	4
B.1 GOVERNING LAW CLAUSE	4
B.2 LIQUIDATED DAMAGES.....	4
B.3 CONTRACT ADMINISTRATION DATA.....	5
B.4 IT CONTRACT SECURITY	5
B.5 PERFORMANCE WORK STATEMENT	15
B.6 PRICE SCHEDULE.....	98
SECTION C - CONTRACT CLAUSES	135
C.1 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998).....	135
C.2 52.212-4 CONTRACT TERMS AND CONDITIONS—COMMERCIAL ITEMS (MAY 2015).....	135
C.3 52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS—COMMERCIAL ITEMS (MAY 2015).....	141
C.4 52.217-7 OPTION FOR INCREASED QUANTITY—SEPARATELY PRICED LINE ITEM (MAR 1989).....	147
C.5 52.227-3 PATENT INDEMNITY (APR 1984)	148
C.6 52.227-16 ADDITIONAL DATA REQUIREMENTS (JUN 1987).....	148
C.7 VAAR 852.203-70 COMMERCIAL ADVERTISING (JAN 2008)	148
C.8 VAAR 852.203-71 DISPLAY OF DEPARTMENT OF VETERAN AFFAIRS HOTLINE POSTER (DEC 1992).....	149
C.9 VAAR 852.211-74 LIQUIDATED DAMAGES (JAN 2008)	149
C.10 VAAR 852.232-72 ELECTRONIC SUBMISSION OF PAYMENT REQUESTS (NOV 2012).....	149
C.11 VAAR 852.237-70 CONTRACTOR RESPONSIBILITIES (APR 1984).....	150
C.12 MANDATORY WRITTEN DISCLOSURES	150
SECTION D - CONTRACT DOCUMENTS, EXHIBITS, OR ATTACHMENTS	152
SECTION E - SOLICITATION PROVISIONS	153
E.1 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998).....	153
E.2 52.209-5 REPRESENTATION BY CORPORATIONS REGARDING AN UNPAID TAX LIABILITY OR A FELONY CONVICTION UNDER ANY FEDERAL LAW (DEVIATION)(MAR 2012).....	153
E.3 52.209-7 INFORMATION REGARDING RESPONSIBILITY MATTERS (JUL 2013) ...	154
E.4 52.212-1 INSTRUCTIONS TO OFFERORS—COMMERCIAL ITEMS (APR 2014)	155
E.5 52.212-3 OFFEROR REPRESENTATIONS AND CERTIFICATIONS—COMMERCIAL ITEMS (MAR 2015).....	159
E.6 52.216-1 TYPE OF CONTRACT (APR 1984).....	173
E.7 52.227-15 REPRESENTATION OF LIMITED RIGHTS DATA AND RESTRICTED COMPUTER SOFTWARE (DEC 2007).....	173
E.8 52.233-2 SERVICE OF PROTEST (SEP 2006)	174

E.9 VAAR 852.233-70 PROTEST CONTENT/ALTERNATIVE DISPUTE RESOLUTION
(JAN 2008) 174
E.10 VAAR 852.233-71 ALTERNATE PROTEST PROCEDURE (JAN 1998) 175
E.11 VAAR 852.270-1 REPRESENTATIVES OF CONTRACTING OFFICERS (JAN 2008)
..... 176
E.12 NOTIFICATION OF SATISFACTION SURVEY: ACQUISITION 360 (JULY 2015) .. 176

SECTION B - CONTINUATION OF SF 1449 BLOCKS

B.1 GOVERNING LAW CLAUSE

Federal law and regulations, including the Federal Acquisition Regulations (FAR), shall govern this Contract. Commercial license agreements may be made a part of this Contract but only if both parties expressly make them an addendum hereto. If the commercial license agreement is not made an addendum, it shall not apply, govern, be a part of or have any effect whatsoever on the Contract; this includes, but is not limited to, any agreement embedded in the computer software (clickwrap), any agreement that is otherwise delivered with or provided to the Government with the commercial computer software or documentation (shrinkwrap), or any other license agreement otherwise referred to in any document. If a commercial license agreement is made an addendum, only those provisions addressing data rights regarding the Government's use, duplication and disclosure of data (e.g., restricted computer software) are included and made a part of this Contract, and only to the extent that those provisions are not duplicative or inconsistent with Federal law, Federal regulation, the incorporated FAR clauses and the provisions of this Contract; those provisions in the commercial license agreement that do not address data rights regarding the Government's use, duplication and disclosure of data shall not be included or made a part of the Contract. Federal law and regulation including, without limitation, the Contract Disputes Act (41 U.S.C. § 7101 et seq.), the Anti-Deficiency Act (31 U.S.C. § 1341 et seq.), the Competition in Contracting Act (41 U.S.C. § 3301 et seq.), the Prompt Payment Act (31 U.S.C. § 3901 et seq.), Contracts for Data Processing or Maintenance (38 USC § 5725), and FAR clauses 52.212-4, 52.227-14, 52.227-19 shall supersede, control, and render ineffective any inconsistent, conflicting, or duplicative provision in any commercial license agreement. In the event of conflict between this Clause and any provision in the Contract or the commercial license agreement or elsewhere, the terms of this Clause shall prevail. Claims of patent or copyright infringement brought against the Government as a party shall be defended by the U.S. Department of Justice (DOJ). 28 U.S.C. § 516. At the discretion of DOJ, the Contractor may be allowed reasonable participation in the defense of the litigation. Any additional changes to the Contract must be made by contract modification (Standard Form 30) and shall only be effected by a warranted Contracting Officer. Nothing in this Contract or any commercial license agreement shall be construed as a waiver of sovereign immunity.

B.2 LIQUIDATED DAMAGES

This Agreement is subject to the statutory requirement to assess liquidated damages against the contractor and/or subcontractor under 38 U.S.C. § 5725 in the event of a breach of Sensitive Personal Information (SPI)/Personally Identifiable Information (PII). Such liquidated damages shall be assessed at \$37.50 per affected Veteran or beneficiary. A breach in this context includes the unauthorized acquisition, access, use, or disclosure of VA SPI which compromises not only the information's security or privacy but that of the Veteran or beneficiary as well as the potential exposure or wrongful disclosure of such information as a result of a failure to follow proper data security controls and protocols.

B.3 CONTRACT ADMINISTRATION DATA

(continuation from Standard Form 1449, block 18A.)

1. Contract Administration: All contract administration matters will be handled by the following individuals:

- a. CONTRACTOR: TBD
- b. GOVERNMENT: Contracting Officer 0010B
 Department of Veterans Affairs
 Technology Acquisition Center
 ATTN: Iris Farrell, Contracting Officer
 23 Christopher Way
 Eatontown NJ 07724

2. CONTRACTOR REMITTANCE ADDRESS: All Invoices from the contractor shall be submitted electronically in accordance with VAAR Clause 852.232-72 Electronic Submission of Payment Requests.

3. INVOICES: Invoices shall be submitted in arrears:

- a. Quarterly
- b. Semi-Annually
- c. Other See price schedule for details

4. GOVERNMENT INVOICE ADDRESS: All Invoices from the contractor shall be submitted electronically in accordance with VAAR Clause 852.232-72 Electronic Submission of Payment Requests.

ACKNOWLEDGMENT OF AMENDMENTS: The offeror acknowledges receipt of amendments to the Solicitation numbered and dated as follows:

AMENDMENT NO	DATE

B.4 IT CONTRACT SECURITY

VA INFORMATION AND INFORMATION SYSTEM SECURITY/PRIVACY

1. GENERAL

Contractors, contractor personnel, subcontractors, and subcontractor personnel shall be subject to the same Federal laws, regulations, standards, and VA Directives and Handbooks as VA and VA personnel regarding information and information system security.

2. ACCESS TO VA INFORMATION AND VA INFORMATION SYSTEMS

a. A contractor/subcontractor shall request logical (technical) or physical access to VA information and VA information systems for their employees, subcontractors, and affiliates only to the extent necessary to perform the services specified in the contract, agreement, or task order.

b. All contractors, subcontractors, and third-party servicers and associates working with VA information are subject to the same investigative requirements as those of VA appointees or employees who have access to the same types of information. The level and process of background security investigations for contractors must be in accordance with VA Directive and Handbook 0710, Personnel Suitability and Security Program. The Office for Operations, Security, and Preparedness is responsible for these policies and procedures.

c. Contract personnel who require access to national security programs must have a valid security clearance. National Industrial Security Program (NISP) was established by Executive Order 12829 to ensure that cleared U.S. defense industry contract personnel safeguard the classified information in their possession while performing work on contracts, programs, bids, or research and development efforts. The Department of Veterans Affairs does not have a Memorandum of Agreement with Defense Security Service (DSS). Verification of a Security Clearance must be processed through the Special Security Officer located in the Planning and National Security Service within the Office of Operations, Security, and Preparedness.

d. Custom software development and outsourced operations must be located in the U.S. to the maximum extent practical. If such services are proposed to be performed abroad and are not disallowed by other VA policy or mandates, the contractor/subcontractor must state where all non-U.S. services are provided and detail a security plan, deemed to be acceptable by VA, specifically to address mitigation of the resulting problems of communication, control, data protection, and so forth. Location within the U.S. may be an evaluation factor.

e. The contractor or subcontractor must notify the Contracting Officer immediately when an employee working on a VA system or with access to VA information is reassigned or leaves the contractor or subcontractor's employ. The Contracting Officer must also be notified immediately by the contractor or subcontractor prior to an unfriendly termination.

3. VA INFORMATION CUSTODIAL LANGUAGE

a. Information made available to the contractor or subcontractor by VA for the performance or administration of this contract or information developed by the contractor/subcontractor in performance or administration of the contract shall be used only for those purposes and shall not be used in any other way without the prior written agreement of the VA. This clause expressly limits the contractor/subcontractor's rights to use data as described in FAR 52.227-14 Rights in Data - Alternate IV.

b. VA information should not be co-mingled, if possible, with any other data on the contractor/subcontractor's information systems or media storage systems in order to ensure VA requirements related to data protection and media sanitization can be met. If co-mingling must be allowed to meet the requirements of the business need, the contractor must ensure that VA's information is returned to the VA or destroyed in accordance with VA's sanitization requirements. VA reserves the right to conduct on-site inspections of contractor and subcontractor IT resources to ensure data security controls, separation of data and job duties, and destruction/media sanitization procedures are in compliance with VA directive requirements.

c. Prior to termination or completion of this contract, contractor/ subcontractor must not destroy information received from VA, or gathered/ created by the contractor in the course of performing this contract without prior written approval by the VA. Any data destruction done on behalf of VA by a contractor/subcontractor must be done in accordance with National Archives and Records Administration (NARA) requirements as outlined in VA Directive 6300, Records and Information Management and its Handbook 6300.1 Records Management Procedures, applicable VA Records Control Schedules, and VA Handbook 6500.1, Electronic Media Sanitization. Self-certification by the contractor that the data destruction requirements above have been met must be sent to the VA Contracting Officer within 30 days of termination of the contract.

d. The contractor/subcontractor must receive, gather, store, back up, maintain, use, disclose and dispose of VA information only in compliance with the terms of the contract and applicable Federal and VA information confidentiality and security laws, regulations and policies. If Federal or VA information confidentiality and security laws, regulations and policies become applicable to the VA information or information systems after execution of the contract, or if NIST issues or updates applicable FIPS or Special Publications (SP) after execution of this contract, the parties agree to negotiate in good faith to implement the information confidentiality and security laws, regulations and policies in this contract.

e. The contractor/subcontractor shall not make copies of VA information except as authorized and necessary to perform the terms of the agreement or to preserve electronic information stored on contractor/subcontractor electronic storage media for restoration in case any electronic equipment or data used by the contractor/subcontractor needs to be restored to an operating state. If copies are made for restoration purposes, after the restoration is complete, the copies must be appropriately destroyed.

f. If VA determines that the contractor has violated any of the information confidentiality, privacy, and security provisions of the contract, it shall be sufficient grounds for VA to withhold payment to the contractor or third party or terminate the contract for default or terminate for cause under Federal Acquisition Regulation (FAR) part 12.

g. If a VHA contract is terminated for cause, the associated BAA must also be terminated and appropriate actions taken in accordance with VHA Handbook 1600.01, Business Associate Agreements. Absent an agreement to use or disclose protected health information, there is no business associate relationship.

h. The contractor/subcontractor must store, transport, or transmit VA sensitive information in an encrypted form, using VA-approved encryption tools that are, at a minimum, FIPS 140-2 validated.

i. The contractor/subcontractor's firewall and Web services security controls, if applicable, shall meet or exceed VA's minimum requirements. VA Configuration Guidelines are available upon request.

j. Except for uses and disclosures of VA information authorized by this contract for performance of the contract, the contractor/subcontractor may use and disclose VA information only in two other situations: (i) in response to a qualifying order of a court of competent jurisdiction, or (ii) with VA's prior written approval. The contractor/subcontractor must refer all requests for, demands for production of, or inquiries about, VA information and information systems to the VA contracting officer for response.

k. Notwithstanding the provision above, the contractor/subcontractor shall not release VA records protected by Title 38 U.S.C. 5705, confidentiality of medical quality assurance records and/or Title 38 U.S.C. 7332, confidentiality of certain health records pertaining to drug addiction, sickle cell anemia,

alcoholism or alcohol abuse, or infection with human immunodeficiency virus. If the contractor/subcontractor is in receipt of a court order or other requests for the above mentioned information, that contractor/subcontractor shall immediately refer such court orders or other requests to the VA contracting officer for response.

1. For service that involves the storage, generating, transmitting, or exchanging of VA sensitive information but does not require C&A or an MOU-ISA for system interconnection, the contractor/subcontractor must complete a Contractor Security Control Assessment (CSCA) on a yearly basis and provide it to the Contracting Officer Representative (COR).

4. INFORMATION SYSTEM DESIGN AND DEVELOPMENT

a. Information systems that are designed or developed for or on behalf of VA at non-VA facilities shall comply with all VA directives developed in accordance with FISMA, HIPAA, NIST, and related VA security and privacy control requirements for Federal information systems. This includes standards for the protection of electronic PHI, outlined in 45 C.F.R. Part 164, Subpart C, information and system security categorization level designations in accordance with FIPS 199 and FIPS 200 with implementation of all baseline security controls commensurate with the FIPS 199 system security categorization (reference Appendix D of VA Handbook 6500, VA Information Security Program). During the development cycle a Privacy Impact Assessment (PIA) must be completed, provided to the COR, and approved by the VA Privacy Service in accordance with Directive 6507, VA Privacy Impact Assessment.

b. The contractor/subcontractor shall certify to the COR that applications are fully functional and operate correctly as intended on systems using the VA Federal Desktop Core Configuration (FDCC), and the common security configuration guidelines provided by NIST or the VA. This includes Internet Explorer 7 configured to operate on Windows XP and Vista (in Protected Mode on Vista) and future versions, as required.

c. The standard installation, operation, maintenance, updating, and patching of software shall not alter the configuration settings from the VA approved and FDCC configuration. Information technology staff must also use the Windows Installer Service for installation to the default "program files" directory and silently install and uninstall.

d. Applications designed for normal end users shall run in the standard user context without elevated system administration privileges.

e. The security controls must be designed, developed, approved by VA, and implemented in accordance with the provisions of VA security system development life cycle as outlined in NIST Special Publication 800-37, Guide for Applying the Risk Management Framework to Federal Information Systems, VA Handbook 6500, Information Security Program and VA Handbook 6500.5, Incorporating Security and Privacy in System Development Lifecycle.

f. The contractor/subcontractor is required to design, develop, or operate a System of Records Notice (SOR) on individuals to accomplish an agency function subject to the Privacy Act of 1974, (as amended), Public Law 93-579, December 31, 1974 (5 U.S.C. 552a) and applicable agency regulations. Violation of the Privacy Act may involve the imposition of criminal and civil penalties.

g. The contractor/subcontractor agrees to:

(1) Comply with the Privacy Act of 1974 (the Act) and the agency rules and regulations issued under the Act in the design, development, or operation of any system of records on individuals to accomplish an agency function when the contract specifically identifies:

(a) The Systems of Records (SOR); and

(b) The design, development, or operation work that the contractor/ subcontractor is to perform;

(1) Include the Privacy Act notification contained in this contract in every solicitation and resulting subcontract and in every subcontract awarded without a solicitation, when the work statement in the proposed subcontract requires the redesign, development, or operation of a SOR on individuals that is subject to the Privacy Act; and

(2) Include this Privacy Act clause, including this subparagraph (3), in all subcontracts awarded under this contract which requires the design, development, or operation of such a SOR.

h. In the event of violations of the Act, a civil action may be brought against the agency involved when the violation concerns the design, development, or operation of a SOR on individuals to accomplish an agency function, and criminal penalties may be imposed upon the officers or employees of the agency when the violation concerns the operation of a SOR on individuals to accomplish an agency function. For purposes of the Act, when the contract is for the operation of a SOR on individuals to accomplish an agency function, the contractor/subcontractor is considered to be an employee of the agency.

(1) "Operation of a System of Records" means performance of any of the activities associated with maintaining the SOR, including the collection, use, maintenance, and dissemination of records.

(2) "Record" means any item, collection, or grouping of information about an individual that is maintained by an agency, including, but not limited to, education, financial transactions, medical history, and criminal or employment history and contains the person's name, or identifying number, symbol, or any other identifying particular assigned to the individual, such as a fingerprint or voiceprint, or a photograph.

(3) "System of Records" means a group of any records under the control of any agency from which information is retrieved by the name of the individual or by some identifying number, symbol, or other identifying particular assigned to the individual.

i. The vendor shall ensure the security of all procured or developed systems and technologies, including their subcomponents (hereinafter referred to as "Systems"), throughout the life of this contract and any extension, warranty, or maintenance periods. This includes, but is not limited to workarounds, patches, hotfixes, upgrades, and any physical components (hereafter referred to as Security Fixes) which may be necessary to fix all security vulnerabilities published or known to the vendor anywhere in the Systems, including Operating Systems and firmware. The vendor shall ensure that Security Fixes shall not negatively impact the Systems.

j. The vendor shall notify VA within 24 hours of the discovery or disclosure of successful exploits of the vulnerability which can compromise the security of the Systems (including the confidentiality or integrity of its data and operations, or the availability of the system). Such issues shall be remediated as quickly as is practical, but in no event longer than days.

k. When the Security Fixes involve installing third party patches (such as Microsoft OS patches or Adobe Acrobat), the vendor will provide written notice to the VA that the patch has been validated as not affecting the Systems within 10 working days. When the vendor is responsible for operations or maintenance of the Systems, they shall apply the Security Fixes within days.

l. All other vulnerabilities shall be remediated as specified in this paragraph in a timely manner based on risk, but within 60 days of discovery or disclosure. Exceptions to this paragraph (e.g. for the convenience of VA) shall only be granted with approval of the contracting officer and the VA Assistant Secretary for Office of Information and Technology.

5. INFORMATION SYSTEM HOSTING, OPERATION, MAINTENANCE, OR USE

a. For information systems that are hosted, operated, maintained, or used on behalf of VA at non-VA facilities, contractors/subcontractors are fully responsible and accountable for ensuring compliance with all HIPAA, Privacy Act, FISMA, NIST, FIPS, and VA security and privacy directives and handbooks. This includes conducting compliant risk assessments, routine vulnerability scanning, system patching and change management procedures, and the completion of an acceptable contingency plan for each system. The contractor's security control procedures must be equivalent, to those procedures used to secure VA systems. A Privacy Impact Assessment (PIA) must also be provided to the COR and approved by VA Privacy Service prior to operational approval. All external Internet connections to VA's network involving VA information must be reviewed and approved by VA prior to implementation.

b. Adequate security controls for collecting, processing, transmitting, and storing of Personally Identifiable Information (PII), as determined by the VA Privacy Service, must be in place, tested, and approved by VA prior to hosting, operation, maintenance, or use of the information system, or systems by or on behalf of VA. These security controls are to be assessed and stated within the PIA and if these controls are determined not to be in place, or inadequate, a Plan of Action and Milestones (POA&M) must be submitted and approved prior to the collection of PII.

c. Outsourcing (contractor facility, contractor equipment or contractor staff) of systems or network operations, telecommunications services, or other managed services requires certification and accreditation (authorization) (C&A) of the contractor's systems in accordance with VA Handbook 6500.3, Certification and Accreditation and/or the VA OCS Certification Program Office. Government- owned (government facility or government equipment) contractor-operated systems, third party or business partner networks require memorandums of understanding and interconnection agreements (MOU-ISA) which detail what data types are shared, who has access, and the appropriate level of security controls for all systems connected to VA networks.

d. The contractor/subcontractor's system must adhere to all FISMA, FIPS, and NIST standards related to the annual FISMA security controls assessment and review and update the PIA. Any deficiencies noted during this assessment must be provided to the VA contracting officer and the ISO for entry into VA's POA&M management process. The contractor/subcontractor must use VA's POA&M process to document planned remedial actions to address any deficiencies in information security policies, procedures, and practices, and the completion of those activities. Security deficiencies must be corrected within the timeframes approved by the government. Contractor/subcontractor procedures are subject to periodic, unannounced assessments by VA officials, including the VA Office of Inspector General. The physical security aspects associated with contractor/ subcontractor activities must also be subject to such assessments. If major changes to the system occur that may affect the privacy or security of the data or the system, the C&A of the system may need to be reviewed, retested and re- authorized per VA

Handbook 6500.3. This may require reviewing and updating all of the documentation (PIA, System Security Plan, Contingency Plan). The Certification Program Office can provide guidance on whether a new C&A would be necessary.

e. The contractor/subcontractor must conduct an annual self-assessment on all systems and outsourced services as required. Both hard copy and electronic copies of the assessment must be provided to the COR. The government reserves the right to conduct such an assessment using government personnel or another contractor/subcontractor. The contractor/subcontractor must take appropriate and timely action (this can be specified in the contract) to correct or mitigate any weaknesses discovered during such testing, generally at no additional cost.

f. VA prohibits the installation and use of personally-owned or contractor/ subcontractor-owned equipment or software on VA's network. If non-VA owned equipment must be used to fulfill the requirements of a contract, it must be stated in the service agreement, SOW or contract. All of the security controls required for government furnished equipment (GFE) must be utilized in approved other equipment (OE) and must be funded by the owner of the equipment. All remote systems must be equipped with, and use, a VA-approved antivirus (AV) software and a personal (host-based or enclave based) firewall that is configured with a VA-approved configuration. Software must be kept current, including all critical updates and patches. Owners of approved OE are responsible for providing and maintaining the anti-viral software and the firewall on the non-VA owned OE.

g. All electronic storage media used on non-VA leased or non-VA owned IT equipment that is used to store, process, or access VA information must be handled in adherence with VA Handbook 6500.1, Electronic Media Sanitization upon: (i) completion or termination of the contract or (ii) disposal or return of the IT equipment by the contractor/subcontractor or any person acting on behalf of the contractor/subcontractor, whichever is earlier. Media (hard drives, optical disks, CDs, back-up tapes, etc.) used by the contractors/ subcontractors that contain VA information must be returned to the VA for sanitization or destruction or the contractor/subcontractor must self-certify that the media has been disposed of per 6500.1 requirements. This must be completed within 30 days of termination of the contract.

h. Bio-Medical devices and other equipment or systems containing media (hard drives, optical disks, etc.) with VA sensitive information must not be returned to the vendor at the end of lease, for trade-in, or other purposes. The options are:

- (1) Vendor must accept the system without the drive;
- (2) VA's initial medical device purchase includes a spare drive which must be installed in place of the original drive at time of turn-in; or
- (3) VA must reimburse the company for media at a reasonable open market replacement cost at time of purchase.
- (4) Due to the highly specialized and sometimes proprietary hardware and software associated with medical equipment/systems, if it is not possible for the VA to retain the hard drive, then;
 - (a) The equipment vendor must have an existing BAA if the device being traded in has sensitive information stored on it and hard drive(s) from the system are being returned physically intact; and

(b) Any fixed hard drive on the device must be non-destructively sanitized to the greatest extent possible without negatively impacting system operation. Selective clearing down to patient data folder level is recommended using VA approved and validated overwriting technologies/methods/tools. Applicable media sanitization specifications need to be pre-approved and described in the purchase order or contract.

(c) A statement needs to be signed by the Director (System Owner) that states that the drive could not be removed and that (a) and (b) controls above are in place and completed. The ISO needs to maintain the documentation.

6. SECURITY INCIDENT INVESTIGATION

a. The term "security incident" means an event that has, or could have, resulted in unauthorized access to, loss or damage to VA assets, or sensitive information, or an action that breaches VA security procedures. The contractor/ subcontractor shall immediately notify the COR and simultaneously, the designated ISO and Privacy Officer for the contract of any known or suspected security/privacy incidents, or any unauthorized disclosure of sensitive information, including that contained in system(s) to which the contractor/ subcontractor has access.

b. To the extent known by the contractor/subcontractor, the contractor/ subcontractor's notice to VA shall identify the information involved, the circumstances surrounding the incident (including to whom, how, when, and where the VA information or assets were placed at risk or compromised), and any other information that the contractor/subcontractor considers relevant.

c. With respect to unsecured protected health information, the business associate is deemed to have discovered a data breach when the business associate knew or should have known of a breach of such information. Upon discovery, the business associate must notify the covered entity of the breach. Notifications need to be made in accordance with the executed business associate agreement.

d. In instances of theft or break-in or other criminal activity, the contractor/subcontractor must concurrently report the incident to the appropriate law enforcement entity (or entities) of jurisdiction, including the VA OIG and Security and Law Enforcement. The contractor, its employees, and its subcontractors and their employees shall cooperate with VA and any law enforcement authority responsible for the investigation and prosecution of any possible criminal law violation(s) associated with any incident. The contractor/subcontractor shall cooperate with VA in any civil litigation to recover VA information, obtain monetary or other compensation from a third party for damages arising from any incident, or obtain injunctive relief against any third party arising from, or related to, the incident.

7. LIQUIDATED DAMAGES FOR DATA BREACH

a. Consistent with the requirements of 38 U.S.C. 5725, a contract may require access to sensitive personal information. If so, the contractor is liable to VA for liquidated damages in the event of a data breach or privacy incident involving any SPI the contractor/subcontractor processes or maintains under this contract.

b. The contractor/subcontractor shall provide notice to VA of a "security incident" as set forth in the Security Incident Investigation section above. Upon such notification, VA must secure from a non-Department entity or the VA Office of Inspector General an independent risk analysis of the data breach to determine the level of risk associated with the data breach for the potential misuse of any sensitive

personal information involved in the data breach. The term 'data breach' means the loss, theft, or other unauthorized access, or any access other than that incidental to the scope of employment, to data containing sensitive personal information, in electronic or printed form, that results in the potential compromise of the confidentiality or integrity of the data. Contractor shall fully cooperate with the entity performing the risk analysis. Failure to cooperate may be deemed a material breach and grounds for contract termination.

c. Each risk analysis shall address all relevant information concerning the data breach, including the following:

- (1) Nature of the event (loss, theft, unauthorized access);
- (2) Description of the event, including:
 - (a) date of occurrence;
 - (b) data elements involved, including any PII, such as full name, social security number, date of birth, home address, account number, disability code;
- (3) Number of individuals affected or potentially affected;
- (4) Names of individuals or groups affected or potentially affected;
- (5) Ease of logical data access to the lost, stolen or improperly accessed data in light of the degree of protection for the data, e.g., unencrypted, plain text;
- (6) Amount of time the data has been out of VA control;
- (7) The likelihood that the sensitive personal information will or has been compromised (made accessible to and usable by unauthorized persons);
- (8) Known misuses of data containing sensitive personal information, if any;
- (9) Assessment of the potential harm to the affected individuals;
- (10) Data breach analysis as outlined in 6500.2 Handbook, Management of Security and Privacy Incidents, as appropriate; and
- (11) Whether credit protection services may assist record subjects in avoiding or mitigating the results of identity theft based on the sensitive personal information that may have been compromised.

d. Based on the determinations of the independent risk analysis, the contractor shall be responsible for paying to the VA liquidated damages in the amount of \$37.50 per affected individual to cover the cost of providing credit protection services to affected individuals consisting of the following:

- (1) Notification;
- (2) One year of credit monitoring services consisting of automatic daily monitoring of at least 3 relevant credit bureau reports;
- (3) Data breach analysis;

(4) Fraud resolution services, including writing dispute letters, initiating fraud alerts and credit freezes, to assist affected individuals to bring matters to resolution;

(5) One year of identity theft insurance with \$20,000.00 coverage at \$0 deductible; and

(6) Necessary legal expenses the subjects may incur to repair falsified or damaged credit records, histories, or financial affairs.

8. SECURITY CONTROLS COMPLIANCE TESTING

On a periodic basis, VA, including the Office of Inspector General, reserves the right to evaluate any or all of the security controls and privacy practices implemented by the contractor under the clauses contained within the contract. With 10 working-days' notice, at the request of the government, the contractor must fully cooperate and assist in a government-sponsored security controls assessment at each location wherein VA information is processed or stored, or information systems are developed, operated, maintained, or used on behalf of VA, including those initiated by the Office of Inspector General. The government may conduct a security control assessment on shorter notice (to include unannounced assessments) as determined by VA in the event of a security incident or at any other time.

9. TRAINING

a. All contractor employees and subcontractor employees requiring access to VA information and VA information systems shall complete the following before being granted access to VA information and its systems:

1) Successfully complete the *VA Privacy and Information Security Awareness and Rules of Behavior* course (TMS #10176) and complete this required privacy and security training annually; Sign and acknowledge (electronically through TMS #10176) understanding of and responsibilities for compliance with the *Contractor Rules of Behavior*, Appendix D relating to access to VA information and information systems.

2) Successfully complete any additional cyber security or privacy training, as required for VA personnel with equivalent information system access [*to be defined by the VA program official and provided to the contracting officer for inclusion in the solicitation document – e.g., any role-based information security training required in accordance with NIST Special Publication 800-16, Information Technology Security Training Requirements.*]

b. The contractor shall provide to the contracting officer and/or the COR a copy of the training certificates and certification of signing the Contractor Rules of Behavior for each applicable employee within 1 week of the initiation of the contract and annually thereafter, as required.

c. Failure to complete the mandatory annual training and sign the Rules of Behavior annually, within the timeframe required, is grounds for suspension or termination of all physical or electronic access privileges and removal from work on the contract until such time as the training and documents are complete.

B.5 PERFORMANCE WORK STATEMENT

1.0 BACKGROUND

The mission of the Veterans Point of Service (VPS) program of the Department of Veterans Affairs (VA) is to provide benefits and services to Veterans of the United States while safeguarding their privacy and enhancing their healthcare experience by providing enhanced capabilities to self-report and participate more fully in their care. In meeting these goals, VPS strives to provide high quality, effective, and efficient business capabilities and information technology (IT) services to those persons who are responsible for providing care to the Veterans at the point-of-care. In addition, VPS strives to provide high quality health care to Veterans throughout all points of their experience in an effective, timely, and compassionate manner. VA depends on a strong business backing, information management (IM), and IT systems to meet mission goals.

The VPS Kiosk program is being completed in multiple phases and uses a combination of Waterfall methodology, Agile methodology, and an iterative approach across its projects to define requirements, development, and implementation for new capabilities that encompass both administrative and clinical functionality. These approaches allow VA certain flexibility to finalize a discrete set of requirements based on the type of capability needed, implement VPS software capabilities, and incrementally roll out both devices and software functionalities on a variety of platforms.

The Integrated Health Portfolio (IHP) is an initiative whose mission is to improve the quality and efficiency of the care provided at VA Medical Centers (VAMCs) by increasing the integration and interoperability of healthcare information systems used at VAMCs. Multiple programs and projects have been assigned as part of IHP, including the Veterans Point of Service (VPS) Kiosk program, which was aligned with another initiative - Enhancing the Veteran Experience and Access to Healthcare.

VPS strategic business objectives rely on creation and adoption of a definitive view of data to:

1. Improve efficiency by facilitating anytime, anywhere access via web to promote self-service and access to personalized information.
2. Ensure that Veterans and beneficiaries have access to accurate and consistent information on benefits and services through one knowledge base.
3. Streamline and improve internal business processes in order to provide high quality experiences for Veterans and their beneficiaries.
4. Improve transparency and provide seamless support across all touch points.
5. Improve consistency and quality across all Veteran interfaces through the sharing of knowledge.
6. Become more Veteran-focused and information-centric by providing a single 360-degree view of the Veteran to all stakeholders.
7. Provide Veterans the ability to self-report on many areas of concern that will result in a more complete history of clinical concerns to positively affect patient outcomes.
8. Provide options to store patient data that will assist in development of metrics and aid in research that will align with VA's strategic goals.
9. Improve VA's ability to successfully resolve Veterans and beneficiaries' issues on the first contact.

In 2011, Phase 1 of VPS consisted of the development of its Java 2 Platform Enterprise Edition (J2EE) Platform (VetLink 1.0) and deployment of over 5,000 biomedical devices that provide Veterans self-

service capabilities to perform a broad range of tasks. Point-of-Service devices or “interactive kiosks” are small, stand-alone devices that provide information and services on a computer screen and allow a consumer to perform tasks, such as validating information or filling out forms. The application of kiosks is widely varied, consisting of anything from a designated computer terminal to an electronic device with a touch screen.

Phase 2 development supports the continued national deployment of the VPS Patient Information Exchange Platform, self-service mobile devices and the development and deployment of Veterans Health Information Systems and Technology Architecture (VistA) patches needed by the VPS VetLink Software, in support of the release of additional capabilities and enhancements desired to achieve the goal of providing stand-alone devices to clinics and VA medical facilities. These biomedical devices empower Veteran patients to efficiently and easily perform a wide variety of administrative, financial and clinical tasks related to their healthcare services and management. The VetLink Platform is interoperable with VistA and the Computerized Patient Record System (CPRS), improving delivery of the appropriate type of care to the Veteran to enhance their healthcare experience.

Under this effort, VA will initiate Phase 3 which leverages VPS VistA.js Platform prototype development that was proofed out under a previously awarded Blanket Purchase Agreement (BPA). The prototype will be utilized as the starting point for the work required under this effort. The work will include an architectural tech refresh through progressive migration away from its VetLink 1.0 J2EE Platform and branding to a next generation VistA.js Platform – VetLink 2.0 – that will converge with VistA Evolution’s Enterprise Health Management Platform (eHMP). The first VPS/eHMP capability to be built on VistA.js is enterprise Medication Reconciliation and Allergy Review (MRAR, or MedRec), which has patient-facing, staff-facing, and provider-facing (internal and external to VA) user interfaces (UI) accessible from a variety of biomedical and mobile devices.

As a key derivative from the collaboration between the new VPS platform and architecture, and the VistA Service Assembler project (VSA), the VistA.js project emerged (VSA VistA.js or simply VistA.js), which will provide infrastructure and enterprise capabilities to satisfy VA business processes and applications that require an authoritative source of Federated patient related data (clinical and administrative), as well as facilitate a high degree of pragmatic interoperability among VA, the Department of Defense (DoD), and non-VA health providers participating in the Veterans Access, Choice and Accountability Act (VACAA or “Choice Program”), as part of the delivery of integrated and comprehensive care at the point of service.

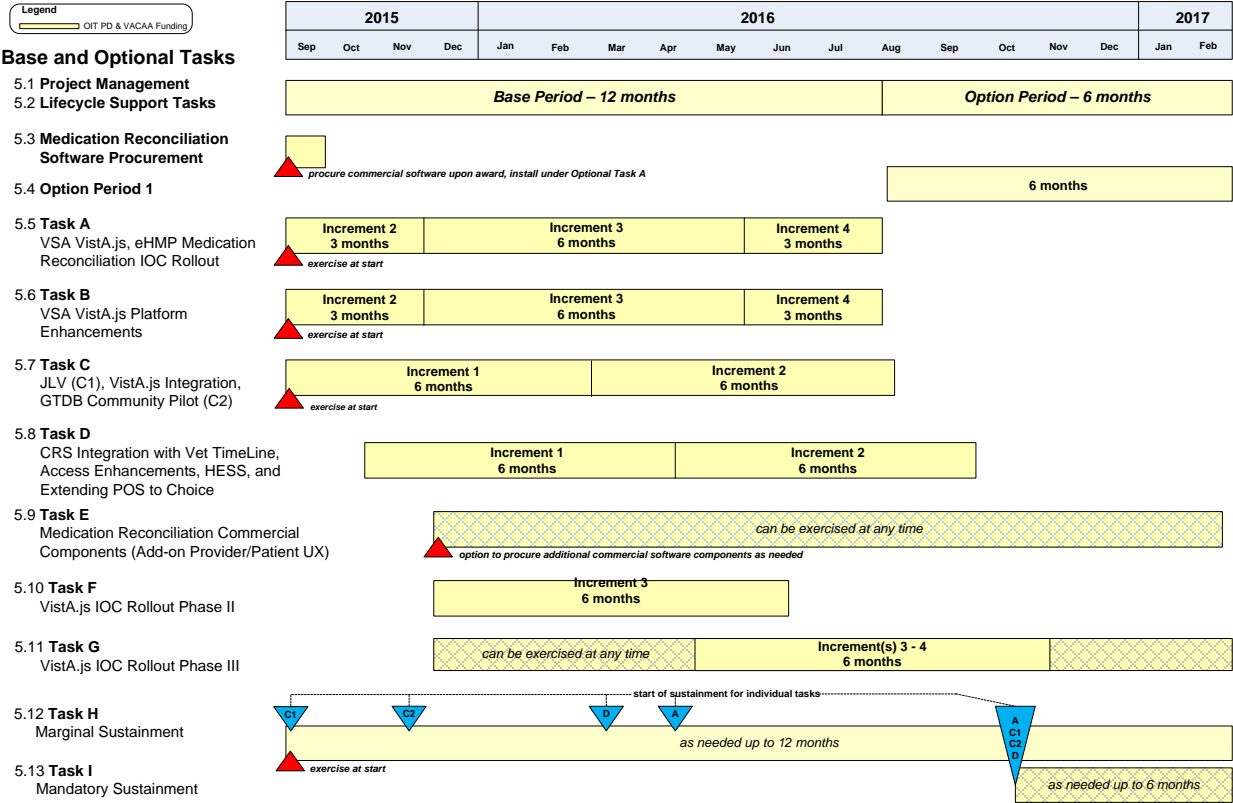
The VSA VistA.js Platform and services will facilitate a definitive, trusted, on-demand, and consistent view of VA and DoD data to support fast, efficient, and consistent interaction with the Veteran both clinically and administratively. VistA.js will support the VistA Evolution Interoperability Enterprise Transition Plan. Improving the speed and efficiency of interactions with Veterans depends on the adoption of that view by applications that are involved in or support the interaction with the Veteran. For example, allowing the Veteran to update his/her mailing address with a single interaction requires the ability for each communication method (telephone, web, etc.) to access a common mechanism to perform the update and each application using the mailing address to accept the update from that mechanism. The same holds true for Veterans reviewing, updating, entering, and/or deleting their medications and allergies through a secure web portal or other means; having the ability to share and review it with clinicians; and providers being able to perform comprehensive clinical reconciliation at the point of service, as in the case of the MRAR capability.

An interoperable view of data will facilitate the ability to successfully resolve Veteran and beneficiary issues at the point of care or from a Veteran's home or mobile device, thus, improving the consistency, quality and accuracy of information shared across all Veteran interfaces. The services provided by the VSA VistA.js project are foundational elements supporting the ability of all applications involved in Veteran interactions to deliver business value and a consistent Veteran experience.

The VSA VistA.js program will enable an integrated view of Veterans' data, thus facilitating fulfillment of the current need by VA Admin Staff and Clinicians to have the ability to view and reconcile Veterans' clinical and administrative data from across disparate data sources inside and outside of VA. This project will support service access to consuming business line applications including Patient Timeline, Homelessness Employment, Enrollment System (ES)/Administrative Data Repository (ADR), Veterans Information & Eligibility Record Services (VIERS)/ Veteran Contact Information Service (VCIS), Veterans Benefit Management System, Customer Relationship Management, Scheduling, and many others.

VSA VistA.js is a part of the VistA Evolution/VistA 4 infrastructure also described as a Federated web service provider to consuming clinical applications such as CPRS, VPS VetLink, eHMP, Joint Legacy Viewer (JLV), and other VA enterprise applications and Veteran self-service applications. The platform further supports VACAA and Get-The-Data-Back (GTDB) solutions, as well as other interoperability initiatives. Service Oriented Architectures (SOA), upon which VSA VistA.js is built, provides the VA with improved business agility – through the sharing and reuse of infrastructure, services, information, and solutions which is a key component of any Federal Enterprise Architecture according to the CIO Council's "A Practical Guide to Federal Service Oriented Architecture."

The following provides a high level overview of the tasks and an anticipated schedule. Increments are indicated in the diagram and throughout the Performance Work Statement (PWS) to be consistent with Project Management Accountability System (PMAS).



2.0 APPLICABLE DOCUMENTS

1. VA Directive 0735, Homeland Security Presidential Directive 12 (HSPD-12) Program, February 17, 2011
2. VA Handbook 0735, Homeland Security Presidential Directive 12 (HSPD-12) Program, March 20, 2014
3. OMB Memorandum M-06-18, Acquisition of Products and Services for Implementation of HSPD-12, June 30, 2006
4. OMB Memorandum 05-24, Implementation of Homeland Security Presidential (HSPD) 12 – Policy for a Common Identification Standard for Federal Employees and Contractors, August 5, 2005
5. OMB memorandum M-11-11, “Continued Implementation of Homeland Security Presidential Directive (HSPD) 12 – Policy for a Common Identification Standard for Federal Employees and Contractors, February 3, 2011
6. OMB Memorandum, Guidance for Homeland Security Presidential Directive (HSPD) 12 Implementation, May 23, 2008
7. Federal Identity, Credential, and Access Management (FICAM) Roadmap and Implementation Guidance, December 2, 2011
8. NIST SP 800-116, A Recommendation for the Use of PIV Credentials in Physical Access Control Systems, November 20, 2008

9. OMB Memorandum M-07-16, Safeguarding Against and Responding to the Breach of Personally Identifiable Information, May 22, 2007
10. NIST SP 800-63-2, Electronic Authentication Guideline, August 2013
11. Draft NIST Special Publication 800-157, Guidelines for Derived Personal Identity 523 Verification (PIV) Credentials, March 2014
12. NIST Special Publication 800-164, Guidelines on Hardware-Rooted Security in 525 Mobile Devices (Draft), October 2012
13. Draft National Institute of Standards and Technology Interagency Report (NISTIR) 7981 Mobile, PIV, and Authentication, March 2014
14. VA Memorandum, VAIQ #7100147, Continued Implementation of Homeland Security Presidential Directive 12 (HSPD-12), April 29, 2011 (reference Enterprise Architecture Section, PIV / IAM <https://www.voa.va.gov/>)
15. VA Memorandum, VAIQ # 7100145, VA Identity Management Policy, June 28, 2010 (reference Enterprise Architecture Section, PIV/IAM <https://www.voa.va.gov/>)
16. IAM Identity Management Business Requirements Guidance document, May 2013, (reference Enterprise Architecture Section, PIV/IAM <https://www.voa.va.gov/>)
17. VistA 4 Product Architecture
(http://www.osehra.org/sites/default/files/vista_4_product_architecture_v1-0_20150127.pdf)
18. VA Medication Reconciliation: An Integrated Solution to Patient-Centered Medication Management, New Service Request 20100914 Business Requirements Document
19. MHS Enterprise Architecture (Updated online and available at (www.tricare.osd.mil/Architecture))
20. DoD 8510.1-M, DoD Information Technology Security Certification and Accreditation Process (DITSCAP) Application Manual, current version
(<http://www.dtic.mil/whs/directives/corres/html/851001m.htm>)
21. Defense Information Infrastructure (DII) Common Operating Environment (COE) Integration and Runtime Specification (I&RTS), Version 4.0, dated 4 October 99, and subsequent updates
22. DoD 5400.11-R, DoD Privacy Program, current version,
(<http://www.dtic.mil/whs/directives/corres/html/540011r.htm>)
23. DoD Directive 8500.1, "Information Assurance (IA)," current version
(<http://www.dtic.mil/whs/directives/corres/html/850001.htm>)
24. DoD Instruction 8500.2, "Information Assurance (IA) Implementation," current version
(<http://www.dtic.mil/whs/directives/corres/html/850002.htm>)
25. DoD 6025.18-R, "DoD Health Information Privacy Regulation", dated current version,
(<http://www.dtic.mil/whs/directives/corres/html/602518r.htm>)

26. DoD Instruction 8551.1, "Ports, Protocols, and Services Management," current version, (<http://www.dtic.mil/whs/directives/corres/html/855101.htm>)
27. Clinger-Cohen Act of 1996, 40 U.S.C. 1401 et seq.
28. DoD Instruction 8580.1, "Information Assurance (IA) in the Defense Acquisition System," current version, (<http://www.dtic.mil/whs/directives/corres/html/858001.htm>)
29. DOD Architecture Framework Version 1.0, February 9, 2004 (<http://www.defenselink.mil/cio-nii/cio/earch.shtml>)
30. CJCSI 3170.01E Joint Capabilities Integration and Development System, May 11, 2005 (http://www.dtic.mil/cjcs_directives/cjcs/instructions.htm)

3.0 SCOPE OF WORK

The Contractor shall transition the VistA.js Platform prototype to a deployable initial operating capability (IOC) pilot package status; rollout the IOC package to up to 11 pilot sites; and provide enhancements, source code, installation procedures, documentation and training. The VistA.js prototype has been proven demonstrable by meeting VA acceptance criteria in an external innovation test environment. In order to transition the VistA.js Platform prototype to a deployable IOC pilot package, the Contractor shall further extend the prototype to meet VA enterprise-grade requirements, 508 compliance, patient safety mandates, as well as undergo extensive performance and user acceptance testing given the clinical nature of the solution involving direct patient care and safety.

All requirements of Sections 8.0 of the Basic VSA Business Requirements Documents (BRD) and VistA.js PWS apply to this effort. All work under this contract shall meet or exceed all business requirements identified in the attached VSA BRD (See PWS Section 6.6).

Below is a breakout of the base period, optional tasks:

Base Period: - To procure commercial medication reconciliation source code for the software module and associated documentation

Optional Task A (if exercised): - Procuring Vista.js source code, associated documentation and services to integrate Vista.JS and medication reconciliation into VA environment

Optional Task B (if exercised): - Enhance the Vista Service Assembler Wizard at selected VA development sites

Optional Task C (if exercised): - Services to integrate the Joint Legacy Viewer and Get the Data Back community pilot with the Vista.js platform into VA environment

Optional Task D (if exercised): - Incorporating Clinical Reconciliation Services (CRS) Integration with Vet TimeLine, Access Enhancements, Health Enterprise Shared Services (HESS), and Extending Point of Service (POS) to Choice

Optional Task E (if exercised): - Procure commercial medication reconciliation patient provider experience source code components, and associated documentation.

Optional Task F (if exercised) - Services to perform IOC rollout of medication reconciliation and VistA.js Platform Phase II (3 additional IOC sites)

Optional Task G (if exercised): - Services to perform VistA.js IOC and medication reconciliation rollout Phase III (3 additional IOC sites) and at the VA's Mobile Application Environment (MAE).

Optional Task H (if exercised): - Services for marginal sustainment for the VistA.js platform and all sites

Optional Task I (if exercised): - Services for mandatory sustainment for the VistA.js platform and all sites

3.1 APPLICABILITY

N/A

3.2 CONTRACT TYPE

This effort shall be proposed on a Firm Fixed Price basis and applies to the Base and Optional Tasks.

3.3 INTELLECTUAL PROPERTY RIGHTS

The Contractor is required to deliver technical data, configurations, documentation or other information, including source code first produced and delivered during contract performance in accordance with the following deliverables: PWS 5.3 Base Period - Medication Reconciliation Source Code and Associated Documentation and Medication Reconciliation Perpetual Apache Source Code License; 5.5 Optional Task A - Initial Vista.JS Platform Source Code, Apache Source Code License, and Associated Documentation; 5.6 Optional Task B - Initial VSAVista.JS Enhancements Source Code, Apache Source Code License, and Associated Documentation; 5.7 Optional Task C - Extended JLV with VistA.js Integration Source Code and Associated Documentation; 5.7 Optional Task C - Extended JLV GTDB Source Code and Associated Documentation; 5.8 Optional Task D – CRS with Veterans Timeline Integration Source Code, Apache Source Code License, and Associated Documentation; and 5.9 Optional Task E - Patient Provider Experience Source Code components , associated documentation, and/or combination of enterprise COTS runtime licenses, Apache Source Code License, and Associated Documentation and 5.13, Optional Task I – Software Source Code Baselines.

CRS with Veterans Timeline Integration Source Code, Apache Source Code License, and Associated Documentation

The Contractor shall grant unlimited rights to all developed software, components, functionality and technical artifacts first produced and delivered in the performance of this contract and as specified as deliverable items in this PWS. For the VistA.js Platform prototype source code that was tested under a previously awarded Blanket Purchase Agreement, the Contractor shall grant rights to the source code under the terms and conditions of the Apache License, Version 2.0 (or mutually agreed to equivalent).

These rights do not extend to or include any commercially available off-the-shelf (COTS) products, or open source components that may be necessary for the Base Period, Option Period, or Optional Tasks custom software to operate correctly. Additionally, the Contractor shall disclose (in the proposal and during the execution of the work associated in this PWS) and the Government shall approve the use of all software components that require third-party licenses or are governed by third-party intellectual property rights. The Government shall receive unlimited Rights in intellectual property first produced and delivered in the performance of this contract in accordance with FAR 52.227-14 Rights In Data- ALT IV (MAY 2014). This includes all rights to source code and any and all documentation created in support thereof. License rights in any Commercial Computer Software shall be governed by FAR 52.227-19, Commercial Computer Software License (DEC 2007).

4.0 PERFORMANCE DETAILS

4.1 PERFORMANCE PERIOD

The period of performance (PoP) for this effort shall be 12 months from date of award. There are nine optional tasks. The PoP for Optional Tasks A, B, C, D, E, and H are 12 months each. The PoP for Optional Tasks F, G and I are six months each. The nine optional tasks detailed in this PWS can be exercised by the Government at any time after award. The PoP for the contract is 12 months, but the PoP of an optional task may be for a maximum period of 12 months and such performance may extend beyond the PoP of the contract provided the optional task is exercised prior to the expiration of the contract.

Any work at the Government site shall not take place on Federal holidays or weekends unless directed by the Contracting Officer (CO) as defined in this PWS.

There are ten Federal holidays set by law (USC Title 5 Section 6103) that VA follows:

Under current definitions, four are set by date:

New Year's Day	January 1
Independence Day	July 4
Veterans Day	November 11
Christmas Day	December 25

If any of the above falls on a Saturday, then Friday shall be observed as a holiday. Similarly, if one falls on a Sunday, then Monday shall be observed as a holiday.

The other six are set by a day of the week and month:

Martin Luther King's Birthday	Third Monday in January
Washington's Birthday	Third Monday in February
Memorial Day	Last Monday in May
Labor Day	First Monday in September
Columbus Day	Second Monday in October
Thanksgiving	Fourth Thursday in November

4.2 PLACE OF PERFORMANCE

The work under this effort shall take place at the Contractor's facility, at VA facilities/pilot sites and Regional Data Centers (RDC) located in the continental United States (CONUS).

4.3 TRAVEL

The Government anticipates travel to perform the tasks associated with the effort as well as to support Functional Analysis, Solution Design and Performance Testing and program status meetings through the period of performance. Travel in support of this effort is estimated to be seven (7) trips in the base year, and ten (10) trips in Optional Task A, four (4) in Optional Task C, two (2) in Optional Task D, two (2) in Optional Task E, four (4) in Optional Task F, three (3) in Optional Task G, if exercised, for a total of thirty-two (32). Each trip shall require 2-4 individuals to support for 4-5 days in duration. A sample of potential sites is shown in the table below for purposes of determining costs associated with potential

travel. Include all estimated Base Period travel costs in your firm-fixed price line items. These costs will not be directly reimbursed by the Government.

Sample Destinations	
Portland, OR	Indianapolis, IN
Orlando, FL	San Antonio, TX
Monterey, CA	Honolulu, HI
San Diego, CA	Salt Lake City, UT
Loma Linda, CA	Washington, DC
Hampton, VA	Boston, MA

5.0 SPECIFIC TASKS AND DELIVERABLES

5.1 PROJECT MANAGEMENT (APPLIES TO BASE AND OPTIONAL TASKS A, B, C, D, F, G, H, and I)

The Contractor shall perform System Development Lifecycle (SDLC) support for the following integration and development activities in accordance with the Performance Work Statement and an Agile Methodology.

The Contractor shall provide system development lifecycle tasks in regard to the implementation of capabilities being developed, tested, configured, and deployed under this contract and maintain VA related technical and user documentation to enhance the MRAR Node.js capability and prototype platform. The Contractor shall ensure that software is deployed to VA environments and operates as detailed by the functional requirements and user stories. The Contractor shall comply with all VA PMAS governance directives for this program and the production of deliverable artifacts based on an Agile framework.

The Contractor shall develop deliverable artifacts that are consistent with PMAS and ProPath Agile templates. The Contractor shall include only the content and artifacts that have been updated or developed in the target increment in deliverable packages. When no change to a package component has occurred during a release increment, unrelated or unchanged artifacts will not be included in the associated delivery packages. The Contractor shall provide a revision history with track changes on to allow for easy visibility of changes between package deliverables.

5.1.1 CONTRACT PROJECT MANAGEMENT PLAN

The Contractor shall create and deliver a Contract Project Management Plan (CPMP) that lays out the Contractor’s approach, timeline and tools to be used in execution of the contract, which shall reflect an Agile software development environment. The CPMP should take the form of both a narrative and graphic format that displays the schedule, milestones, risks and resource support. The CPMP shall also include how the Contractor will coordinate and execute planned, routine, and ad hoc data collection reporting requests as identified within the PWS. The initial baseline CPMP shall be concurred upon by the VPS Project Manager (PM) and updated as required. The Contractor shall update and maintain the

VPS PM approved CPMP throughout the PoP. The Contractor shall use the VA approved PMAS template to create the CPMP.

Deliverables:

- A. Contract Project Management Plan

5.1.2 TECHNICAL KICKOFF MEETING

The Contractor shall hold a Technical Kickoff Meeting within 10 business days after contract award at a location to be discussed upon award. The Contractor shall present, for review and approval by the Government, the details of the intended approach, work plan, and project schedule for each effort. The Contractor shall provide the Kickoff Meeting Agenda and Kickoff Meeting Presentation to all attendees at least five business days prior to the meeting. The pertinent information regarding the Kickoff meeting shall be provided to all attendees within three business days after the meeting. The Contractor shall invite the CO, Contract Specialist (CS), COR, and the VA PM.

The Contractor shall brief the Kickoff Meeting Presentation and Contractor key personnel for their respective project areas. The Kickoff Meeting Presentation shall be developed in Microsoft PowerPoint. The Kickoff Meeting Presentation shall include all assumptions in an effort to finalize the project definition, detailed activities, and the draft CPMP.

Deliverables:

- A. Technical Kickoff Meeting Presentation

5.1.3 REPORTING REQUIREMENTS

The Contractor shall provide the designated VA PM and COR with Executive Level Quarterly Progress Reports (QPR) in electronic form in Microsoft Word and Project formats. The report shall include:

- a. High Level Cost Summary
- b. High Level Schedule Summary
- c. High Level Risks and Issues Summary
- d. Corrective Actions and Improvements
- e. Successes and Non-Successes
- f. Planned activities for next quarter
- g. Recommendations

These reports shall reflect data as of the last day of the preceding quarter.

The Contractor shall also provide the COR with Monthly Progress Reports (MPRs) in electronic form in Microsoft Word and Project formats. The report shall include detailed instructions/explanations for each required data element in this section 5.1.3 to align with the data elements specified below in section 5.1.4, to ensure that the report is cross-cutting, accurate and consistent. The report shall also identify any problems that arose and a description of how the problems were resolved. If problems have not been completely resolved, the Contractor shall provide an explanation including their plan and timeframe for resolving the issue. The Contractor shall monitor performance against the CPMP and report any deviations. It is expected that the Contractor shall keep in communication with VA accordingly so that issues that arise are transparent to both parties to prevent escalation of outstanding issues. The Contractor

shall participate with VA personnel at any necessary weekly and/or monthly project related meetings. The MPR shall reflect data as of the last day of the preceding Month. The MPR shall include notifications when updates to technical documents are made.

Deliverables:

- A. Executive Level QPR
- B. Monthly Progress Report

5.1.4 PRODUCT DEVELOPMENT (PD) REPORTING REQUIREMENTS

The Contractor shall deliver Bi-Weekly PD Status Reports to the VPS PM and COR due by the end of each second week. These reports shall provide accurate, timely, and complete project information supporting PD reporting Requirements. The Bi-Weekly PD Status Report shall include the following data elements:

- a. Medication Reconciliation Allergy Review (MRAR) tasks
- b. Overview and description of the MRAR tasks
- c. Overall high level assessment of MRAR task(s) progress
- d. All work in-progress and completed during the reporting period
- e. Identification of any MRAR task or sub-task related issues uncovered during the reporting period and especially highlight those areas with a high probability of impacting schedule, cost or performance goals and their likely impact on schedule, cost, or performance goals
- f. Explanations for any unresolved issues, including possible solutions and any actions required of the Government and/or Contractor to resolve or mitigate any identified issue, including a plan and timeframe for resolution
- g. Status on previously identified issues, actions taken to mitigate the situation and/or progress made in rectifying the situation
- h. Work planned for the subsequent reporting period
- i. Current MRAR task schedule showing any delays or advancement in schedule
- j. Workforce staffing data showing all Contractor personnel performing on the effort during the current reporting period. After the initial labor baseline is provided, each Bi-Weekly PD Status Report shall identify any changes in staffing identifying each person who was added to the contract or removed from the contract.
- k. Original schedule of deliverables and the corresponding deliverables made during the current reporting period

These reports shall not be the only means of communication between the Contractor, COR and the Program/Project Manager to advise of performance/schedule issues and to develop strategies for addressing the issues. The Contractor shall continuously monitor performance and report any deviation from the PMP or previous Monthly PD Status Report to the COR and Program/Project Manager during routine, regular communications.

Deliverables:

- A. Monthly PD Status Report

5.1.5 PRIVACY TRAINING

The Contractor shall submit status of VA Privacy and Information Security Awareness training for all individuals engaged on the task. The status reporting shall identify: a single Contractor Security POC, the names of all personnel engaged on the task, their initial training date for VA Privacy and Information Security training, and their next required training date. This information shall be submitted as part of the Monthly PD Status Report.

The Contractor shall submit VA Privacy and Information Security training certificates in accordance with Section 9, Training, from Appendix C of the VA Handbook 6500.6, "Contract Security".

Deliverables:

- A. VA Privacy and Information Security Training Certificates

5.1.6 SCHEDULE MANAGEMENT

The Contractor shall provide content that the VPS PMO can use to create an Integrated Master Schedule (IMS) that depicts the evolving full lifecycle development of VistA.js Platform pursuant to the PWS. The Contractor shall create, maintain, analyze, and report integrated schedules, as defined below:

- a. The Contractor shall create and maintain a Work Breakdown Structure (WBS) to a minimum of 5 levels and/or Agile equivalent.
- b. The IMS schedule shall identify and include all applicable project milestones for identifying and documenting discrete events necessary to complete the project, definition of relationship (dependency) between and among these events, determination of the expected duration of each event, resources required for each, and creation of a schedule that depicts this information as a logical cohesive whole.
- c. The Contractor shall ensure that a fully resource-loaded and baselined schedule in Microsoft Project (or other product as directed by the Government such as Primavera, Jira, etc.) is in place within thirty (30) calendar days of receiving baselined requirements.
- d. The Contractor shall maintain the schedule, generating schedule reports at the end of each sprint containing at a minimum the planned versus actual program/project performance and updated critical path information for the project. The reports shall be provided to and accepted by the VPS PM.
- e. The Contractor shall follow the established Change Control Process Plan to address any schedule variance. The Contractor shall adhere to VA processes for changing dates related to PMAS deliverables and base lined dates.
- f. The Contractor shall deliver a detail level schedule, critical path depiction, and what-if analysis, with breakouts of subsections for individual groups/teams. When data is provided/entered that creates overall critical path slippage, the Contractor shall notify the PM within one business day, by email and phone.

Deliverables:

- A. WBS and/or Agile equivalent and Updates
- B. Integrated Master Schedule (IMS) and Updates
- C. Schedule Reports or Agile
- D. Critical Path Reports and Updates

E. What-if analyses and Updates

5.1.7 RISK MANAGEMENT

The Contractor shall:

- a. Adhere to the VPS ProPath approved risk and issue management processes and report risks and issues for all VistA.js Platform development, operational, and maintenance activities.
- b. Provide content to the VPS PMO to populate a project Risk Management Plan (RMP) in compliance with the ProPath template. The RMP identifies circumstances that may potentially have a negative impact on the solution, describes these potential impacts, and asserts measures to either reduce/eliminate their potential or minimize their impact. The Contractor shall include a risk assessment matrix that identifies risk factors such as acceptability, tolerability, and ranking. The Contractor shall provide a presentation of updated risk mitigation actions at each project review.
- c. Create and manage risks/issues and report them to the VPS Project Risk Registry and Action Item/Issue log. The Contractor shall use VA mandated tools to manage and track risks. The Contractor shall also collaborate with project partners to establish the priority, scope, bounds, and resources for managing project risks and issues and assess the courses of action related to them. The Contractor shall inform the VA PM of relevant deliberations and recommendations and work with the development team to mitigate and resolve project risks and issues as they are identified.

Deliverables:

- A. Risk Management Initial Content and Updates
- B. Project Risk Registry and Updates
- C. Action Item/Issue Log and Updates

5.2 LIFECYCLE SUPPORT TASKS (APPLIES TO ALL TASKS AND ALL OPTIONAL TASKS A, B, C, D, E, F, G, H, and I)

The Contractor shall configure, develop, enhance, maintain, test, and deploy Access Services capabilities, including COTS products (if required), using SDLC process and industry life cycle best practices. The Contractor shall provide technical documentation and execute the life cycle processes throughout the PoP to support the delivery of enterprise services identified in Section 5.2.2.and its subparagraphs.

The deliverables associated with the life cycle support tasks are documented in this section. The Contractor shall deliver services and the integrated project documentation and artifacts that support delivery of VPS services. The term integrated refers to the fact that the content of any given document or artifact is aggregated to include the work efforts of all enterprise service activities that are executed during an increment. The Contractor shall provide deliverable packages/artifacts specified herein that meet documentation and code delivery requirements of activities specified in the Price Schedule and are PMAS/ProPath conformant. The Contractor may leverage and reuse relevant content and pre-existing product documentation as appropriate to satisfying the content of package deliverables. The Life Cycle Support Deliverables and delivery schedule are identified in the Price Schedule.

5.2.1 TECHNICAL ANALYSIS AND REFINEMENT

The Contractor shall collaborate with VA to map business requirements to VistA.js Platform enhancements. This analysis shall enhance the strategic planning, technical capability, and process improvement associated with the VistA.js Platform. This analysis will facilitate the development of user stories for development. Detailed technical requirements are elaborated from the business requirements and articulated in different levels of detail as outlined below.

The Contractor shall:

1. Facilitate the detailed technical requirement gathering and technical requirement translation coordination sessions between business stakeholders and technical personnel. The Contractor shall publish meeting notes for all meeting attendees and ensure that they are stored in the required document repository, as defined by the VA PM or COR.
2. Coordinate with VA project technical personnel and Subject Matter Experts (SMEs) to elaborate on the detailed technical requirements and ensure that all interface patterns and technical rules are captured in relation to project interfaces. These interfaces will be documented utilizing VA-approved Interface Control Document (ICD) templates (See Section 5.2.2)
3. Maintain and update the established Requirements Specification Document (RSD) ensuring compliance with PMAS. This shall be accomplished using an approved VA tool suite such as IBM Rational Tool suite and using the Pro-Path template in Microsoft Word
4. Create, maintain and update the Requirements Traceability Matrix (RTM). The RTM correlates two baseline documents: The BRD and RSD. This shall be accomplished utilizing all PMAS and ProPath templates along with a VA-approved tool such as the VA Rational Tools Suite. This shall include tracking the:
 - a. Source of the requirement
 - b. Date the requirement was identified
 - c. System application/module assigned
 - d. Test status
5. Refine BRD technical details from the BRD in the form of use cases that depict the system/process flow that are then decomposed to user stories. The conceptual design will balance all look-and-feel requirements with proper presentation of information, guiding a user through VistA.js features and transactions, including all supporting processes.
6. Leverage use cases or requirements that depict the system/process flow that are then decomposed to user stories to develop conceptual design(s) as appropriate that depict(s) the application design options, data presentation, including interface elements and navigation, and how they work together. The conceptual documents shall provide a visual display of the new application capability: functionality, behavior, and application flow to support business process workflows.
7. Create, maintain and update User Stories to include process flows and develop interactive wireframes.
 - a. Create, maintain and update the current inventory of Use Cases/User Stories, coordinate with business stakeholders and produce new Use Cases/User Stories, as deemed necessary by the VA PM to develop Office of Information Technology (OIT) requirements. When Gaps are identified, the Contractor shall document missing Use

Cases/User stories via the prescribed format using the standard VA approved Rational Unified Product Template. The Contractor shall use a VRM approved tool such as Rational ReqPro to store and manage all Use Cases/User Stories. In addition to use cases/user stories, the Contractor shall develop process flow diagrams to provide visual documentation

- b. Develop interactive wireframe(s) using the existing VistA.js framework that depict the page layout and the arrangement of information (including interface elements and navigation). The interactive wireframe will support the user experience desired as an end product and in a manner consistent with best practices, usability, and accessibility (consistent with Section 508 and other VA standards and directives).
8. Analyze information relative to desired business change requests received through a VA-approved tool (for example, Rational Tools Suite) or through a VA-specified change control process and translate this to detailed technical requirements via reports produced in ClearQuest. This action shall only take place after Configuration Control Board (CCB) approval.
9. Work with the VA Product Owner and stakeholders to produce a roadmap describing the proposed implementation of VistA.js functionality over time.

Deliverables:

- A. Updated Requirements Specification Document (RSD)
- B. Requirements Traceability Matrix (RTM)
- C. Use Cases/User Stories
- D. Interactive Wireframes
- E. Roadmaps

5.2.2 SOLUTION DESIGN

Solution architecture and design can be documented by developing the structure and behavior of a solution and the process for performing the work to satisfy requirements. Design and architectures often focus on the characteristics, relationships, and behavior of technical components, and on meeting business requirements in the context of using specific component capabilities.

The Contractor shall:

1. Provide technical support for the analysis of new change or service requests.
2. Support a review of the Requirements Specification Document (RSD).
3. Acquire and maintain a comprehensive view of the enterprise IT context and an understanding of the VA business objectives and processes. The Contractor shall ensure compliance with VA Enterprise Systems Engineering (ESE) Software and Enterprise frameworks within the application architecture. The Contractor shall utilize PD approved architecture tools, modeling notation, repositories, and management processes to capture, publish, and maintain product line architecture artifacts.
4. Leverage existing design documentation to revise and produce updated document versions. The current version of PMAS required documentation will be made available after the successful vendor has been granted access to the VA network. The Contractor shall provide technical documentation that outlines how the various technical components and capability are integrated

- to meet VistA.js requirements.
5. Apply NIST standards (for example, NIST-SP-800-53) to comply with security requirements, enterprise architecture, data standardization, format, transmission, and storage.
 6. Apply the processes of or equivalent to the Institute of Electrical and Electronics Engineers (IEEE) standards, or the Software Engineering Institute (SEI) Capability Maturity Model Integration (CMMI) to each functionality to be delivered.
 7. Update and maintain the RTM to list all system/component requirements, and detail how and where they are addressed in the system design Consuming Application RTM (showing how the service supports business requirements).
 8. Ensure Enterprise Technical Architecture (ETA) compliance and support the completion of the ETA compliance checklist.
 9. Provide solution architecture models, views, and related architecture artifacts and framework. The Solution Architecture will illustrate design structures by way of class, service, component, deployment, object and package diagrams, service functional behavior by way of activity, state machine and use case diagrams, and software/service interoperability, integration and interaction via communication, interaction overview, sequence and timing diagrams.
 10. Leverage and reuse the VistA.js architecture framework and platform information in the development of the architecture. Design VistA.js software components and code patterns which foster reusability and enterprise capabilities.
 11. Construct and/or update Interface Control Documents (ICDs). ICDs shall describe how VistA.js functions and services interface to external IT systems and services. ICDs shall include VistA.js description of provider-based and consumer-based service roles. The ICD can be included as a distinct subsection of the SDD.
 12. Provide architecture views as part of the solution architecture and incorporate into the SDD. Data architecture views are inclusive of data systems, context diagrams, deployment diagrams, flow charts, access interfaces, data exchanges, physical data elements, data relationships and data communication channels between interoperable systems. VistA.js data architecture views must be to a level sufficient to contribute to and used as part of solution design documentation.
 13. Participate in Architecture Engineering Review Board (AERB) review meetings in which the project team's SDD are reviewed and approved.
 14. Provide input to the Systems Engineering Design Review (SEDR) intake documentation, participate in the SEDR testing process and complete any remediation action items required by the VA SEDR Group as a result from a SEDR Review.
 15. Advise and recommend standards to assist with configuring the VistA.js to support services which are FIPS 140-2 compliant. The Contractor shall configure VistA.js to integrate with core data services routines using role-based access.
 16. As applicable, provide database, directory, and repository entity relationship diagrams (ERDs), schema designs, data dictionaries, and service-to-data mapping artifacts as part of the architecture design documentation. The Contractor shall identify data handling in accordance with VA data policies and governance.
 17. Update Solution Application Recovery Guide to address the availability of VistA.js services during routine maintenance, critical/emergency maintenance and disaster scenarios. The deployment sites will be provided upon contract award. The Disaster Recovery (DR) site will be designed as a failover site, which is a site that contains replicated servers and no loss of data (failover occurs without end user awareness). The Contractor shall identify all logical and virtual redundancies and backup processes, components, and methods.
 18. Complete an increment capacity analysis to identify the minimum enterprise hardware and

software solution to include: sizing and performance requirements, systems and subsystem, interface requirements, and systems control requirements. The Contractor shall update the Server Planning sheets to reflect the minimum enterprise hardware and software solution.

19. Document system design to include: detailed processing logic for each module, data dictionary entries for parameter data and a list of compile and load units for each design unit and their component modules.
20. Update Requirements Traceability Matrix update by mapping system design, documented in the SDD, to the Requirements Specification Document.
21. Identify, define, and design capacity and performance parameters and any associated limitations. Specifically, coordinate with the VA and data center teams to identify facility limitations and considerations during the design phase. Apply VA standards that comply with security requirements, enterprise architecture, data standardization, format, transmission and storage.
22. Ensure the conceptual architecture complies with the Federal Enterprise Architecture (FEA) Business Reference Model (BRM) and Performance Reference Model (PRM). Descriptions of the BRM and PRM are found within the FEA Consolidated Reference.
23. Deliver design deliverables to the VA in accordance with Schedule B. The Contractor may leverage and reuse relevant content from pre-existing product documentation in satisfying the deliverables during the specified PoP.
24. Provide performance engineering to ensure the requirements identified in the BRD(s) are met.
25. Support PMAS Formal Product Documentation Reviews.

Deliverables:

- A. System Design Document
- B. Server Planning Sheets
- C. Capacity Analysis Report
- D. Application Recovery Guide

5.2.3 SOLUTION CONSTRUCTION

The Contractor shall conduct tasks associated with the configuration of VistA.js services to satisfy VistA.js Platform requirements in accordance with VistA.js design and architecture. The Contractor shall:

1. Create and maintain software code base to include binaries as applicable per baselined Requirements Specification Documents and Use Case requirements.
2. Support the Identity and Access Management (IAM) Access VA User Group in development of usability requirements by conducting up to 3 demonstrations to present wireframes/prototypes and incorporate usability feedback from User Group.
3. Complete Fortify scan on custom code and resolve defects prior to release to Software Quality Assurance (SQA) environment.
4. Configure the services to support the IAM Access Services (AcS) business continuity requirements.
5. Create and maintain Increment Release Notes.
6. Conduct and document development environment test procedures and events, to include data-sets, test scripts, and test results with actual versus planned outcomes. The Contractor shall maintain software unit test documentation, and make unit test summaries available to the VA PM or COR staff upon request.
7. Create and maintain development test code.

8. Schedule periodic internal technical configuration/integration reviews, Sprint demonstrations, and walkthroughs of VistA.js functionality with IAM stakeholder to improve software quality and reduce development time.
9. Update VistA.js design documentation and artifacts to remain consistent with solution configuration and integration.
10. Create and maintain version description document for every release.
11. Maintain source code repository, Requisite Pro, ClearQuest (CQ), ClearCase, and Quality Manager Repositories, as needed.
12. Deliver AcS-construction deliverables to the VA in accordance with the IMS.
13. Deliver build packages to the VA in accordance with the increment project schedule. The Contractor shall include within the build packages the following components:
 - a. Software Builds/Images of required VistA.js components checked into CQ, as appropriate.
 - b. Enhancements to existing Test Harness to test each software path and release modifications.
 - c. Development test results using the Test Harness.
 - d. Artifacts required by PMAS, including Application Self-Scoring Evaluation Support System (ASSESS) artifacts.
 - e. Metrics of service performance, volumes and consumption.
 - f. Support PMAS Formal Product Documentation Reviews.

Deliverables:

- A. Build Package
- B. Wireframes
- C. Site Maps
- D. Release Notes
- E. Developer Test Plan
- F. Version Description Document

5.2.4 SOLUTION INTEGRATION

The VistA.js Program will involve multiple engineering teams both within the VA, and externally as contractors and sub-contractors; thus, it is necessary to plan and co-ordinate key technical aspects of the program to ensure Solution Integration. Accordingly, system engineering and integration (SEI) should occur throughout the entire program lifecycle. The purpose of this activity is to provide technical guidance and direction to ensure that all of the solution components developed in the base and optional tasks are built to a uniform set of standards and function correctly as complete end-to-end solution.

The SEI activity for this program should address the following aspects:

- a. **Technical Planning and Analysis:** detailed planning is needed to co-ordinate the development and integration of components across the program and deploy it to multiple pilot sites. Ad-hoc analysis of problems, alternatives, and methods will be needed to inform the planning process.
- b. **Interface Design:** co-ordinate and assist with the design of system, system-to-system, and application interfaces and APIs that will be needed by the program solutions

- c. **Performance Engineering:** establish system level performance goals and specific methods for measuring critical end-to-end functional threads, and establish appropriate demand/capacity levels for the program solutions
- d. **Security Engineering:** establish an end-to-end system level security approach for VistA.js that complies with VA Security Standards and is compatible with the performance goals of the program
- e. **Integrated System Test:** establish both a system level strategy and a plan to conduct integrated testing of the Vista.js as it is built out as part of the MTP (see 5.2.5). This strategy and plan should address the need to support testing of this platform into the Sustainment Phase.

In this program, the SEI activity should be adaptable to the specific option tasks that are ultimately selected and the nature of each option task. Some tasks will require substantial SEI work, while others may not.

VSA VistA.js is a highly scalable and integrated solution. The Contractor shall support changes to eHMP MRAR and VSA VistA.js. These integrations may result in changes to existing SDD and ICD materials or require creation of new ICD materials.

Deliverables:

- A. Interface Control Documents (ICD) and Updates
- B. Technical Planning and Analysis Plan
- C. Interface Design Document
- D. Performance Engineering Plan
- E. Security Engineering Plan

5.2.5 TESTING SUPPORT

The Contractor shall test (and/or coordinate testing of) all software created as part of this PWS to include unit, functional, smoke, integration, UAT, regression, deployment, and performance testing. The Contractor shall provide verification and feature validation and Quality Assurance (QA) support with the goal of testing and validating the system(s)/products for full-scale release and deployment.

The Contractor shall:

1. Develop and maintain the Master Test Plan (MTP) to summarize QA procedures for what, where, when, and how critical technical parameters and critical operational issues will be monitored, tested, and evaluated (the foundation of this Master Test Plan shall be the QA plan outlined in the CPMP (See Section 5.1.1).
2. Develop, update, maintain, and deliver a Master Test Schedule.
3. Create and execute test case scenarios to trace feature and specification compliance in support of business needs as documented in the BRD, RSD for all VA testing levels to support all applicable user stories.
4. Develop and deliver test scripts using automation whenever possible for all VA testing levels.
5. Develop and deliver a Test Results Report for all VA testing levels to include, at a minimum:

- a. Test results
 - b. Number of defects detected
 - c. Number of defects corrected
 - d. Severity levels of defects
 - e. Delivery dates of program fixes
6. Generate Defect Tracking Report using VA's standard defect management tool to document and track defects.
7. Coordinate and conduct a Test Readiness Review (TRR) and Product Readiness Review (PRR). The Contractor shall provide a system walkthrough to the testing community as part of the TRR and the PRR. The Contractor shall document and deliver to the VA PM the results and pertinent information from the TRR and the PRR review meetings.

Deliverables:

- A. Master Test Plan
- B. Integrated System Test Plan
- C. Master Test Schedule
- D. Test Case Scenarios
- E. Test Scripts
- F. Test Results Report
- G. Defect Tracking Report
- H. Testing Environment
- I. Testing Reports
- J. VA Testing Service Certification

5.2.5.1 SUPPORT AND COORDINATE SQA AND UAT TESTING.

The Contractor shall perform a full test of the functionality and performance of each software enhancement and maintenance fix called for hereunder. The Contractor shall develop a Master Test Plan, which includes detailed test plans, procedures and scripts, demonstrating that each technical and functional requirement element is addressed in testing. The test plan shall document items to be tested, test strategy, test criteria, test deliverables, test schedule, test environments and locations, test data, staffing needs, risks and constraints, and test metrics and be provided to COR for review prior to testing. Following COR approval of the Master Test Plan, which can include test-driven development under an Agile paradigm, the Contractor shall conduct testing. The Contractor shall follow all OIT testing requirements set forth in VA PD ProPath for the testing described below. Following Contractor testing of the new functionality developed under this PWS, the Contractor shall perform formal testing (sometimes referred to as Government Acceptance Test). The Contractor shall plan and conduct this formal testing with Government test and user observers and must be reviewed and approved by the COR for completeness with any necessary updates made as requested by the VPS PM and/or COR:

The Contractor shall perform the testing detailed below:

- a. The Contractor shall conduct Product Component Testing (also referred to as "Unit Testing") and Load and Performance Testing to confirm the internal technical and functional performance of a module/component of code. This test shall verify that the requirements, as defined in the RTM, have been successfully applied to the module/component under test. The Contractor shall adhere to the following or approved equivalent steps for this testing:

- i. Analyze the requirements and the design model to understand the application functionality and dependencies.
 - ii. Identify all the routines affected by the new module or object. Specify all the routines that are called and from what location they are called.
 - iii. Execute tests on COR prioritized alternatives within the limits of the resources available.
 - iv. Execute tests with different combinations of alternatives and data as prioritized and approved by the COR. For example, test with minimal data entered and test with maximum data entered.
 - v. Perform exploratory testing to exercise the module, object, and options based upon domain knowledge, past performance, and expertise. The Contractor shall record the actual test results in the RTM.
 - vi. Ensure testing aligns with Government SCQC standards utilizing government mandated SCQC tools or approved equivalent (e.g., Fortify). Perform security corrections on all applications.
- b. The Contractor shall include primary developer checklists (available in VistA Library and ProPath), secondary developer checklists, and SQA checklists in the Formal Test Results. The Contractor shall conduct the following test activities for each enhancement developed under this PWS:
- i. Testing Cycles. Each Project Package shall be tested in accordance with the full provisions of this PWS section and should include four (4) testing cycles, completed in the following order:
 1. Product Component Testing (Unit Testing), as described above, to ensure all independent components provide the functionality described in the PWS.
 2. Integration Testing to ensure all components work together with the entire VSA VistA.js platform and related systems (e.g., eHMP MRAR, JLV).
 3. Regression testing using automated testing tools or manually where necessary.
 4. Load & Performance Testing to ensure the new components will function under a simulated production load.
- c. Test Cases/Scripts and Traceability. The Contractor shall create tests to exercise the product or system in a controlled operation (“Test Cases” or “Test Scripts”). Test Scripts may take the form of either documented textual instructions that are executed manually or computer readable instructions that enable automated test execution. The Contractor shall ensure Test Case traceability by linking the Test Cases/Test Scripts to specific requirements to ensure accurate traceability. The Contractor must work with the business owner, and shall validate that the test scripts/test cases are accurate. Development teams that do not have access to automated tools shall use a Traceability Matrix to demonstrate traceability. Real-time, test-driven development results using an Agile framework are also acceptable.

- d. Regression/Automated Testing. The Contractor shall develop eHMP MRAR, JLV, and VSA VistA.js test cases (i.e., manual or automated) and modify as necessary to address the new functionality that is deployed. The suite is supported by Rational Functional Tester (RFT) and Rational Quality Manager (RQM) or equivalent and unless otherwise approved through or directed by the COR (e.g., Requirements Based Testing or RBT, and Software Assurance Standard Operating Procedures). Updates to these tools shall be integrated with the eHMP MRAR, JLV, and VSA VistA.js defect tracking as well as source code control and configuration management toolset.
- e. Test Environment. The Contractor shall prepare the applicable test environments by either creating them from scratch or by modifying existing test environments (access to existing test environments must be obtained thru VA prior to task execution through the COR). Configuration Management and Change Control processes shall be maintained in accordance with the overarching eHMP MRAR, JLV, and VSA VistA.js Configuration Management Plan(s) from the Technical Service Project Repository (TSPR). Specifically, the Contractor shall adhere to the following steps:
 - i. Identify requirements for the applicable test environment and test data.
 - ii. Identify test environment procedures and criteria.
 - iii. Create, acquire, or modify test data serving as input and file conditions for test cases and test scripts.
 - iv. Determine the integration sequence of the product build.
 - v. Maintain the product integration environment throughout the project.
 - vi. Dispose of those portions of the test environment and test data that are no longer useful.
- f. Component Integration Test Results. The Contractor shall install the product component enhancement and perform component integration testing. Product Component Integration testing is performed to expose defects in the interfaces and interaction between integrated components as well as to verify installation instructions. The Contractor shall initiate a SQA Review Checklist, available in VA's ProPath tool or COR approved equivalent, during this activity. The Contractor shall report the results of this testing in the Component Integration Test Results.
- g. Formal Testing Results. Following development testing, the Contractor shall coordinate with the VA SQA Lead to conduct a final SQA test of the "project package/release." The SQA testing shall be conducted using a Government approved test environment and using formal Government Acceptance Test policies and procedures as defined in ProPath.
- h. Field Test Certification. The Contractor shall obtain the following certifications for the capability using VA's ProPath tool or COR approved equivalent:
 - i. Certification from Client Testing via email.
 - ii. Certification for National Deployment provided by VA Testing Service.
 - iii. The Contractor shall work with COR(s) and eHMP MRAR, JLV, and VSA VistA.js SMEs to validate defect fixes.

5.2.5.2 TEST DATA MANAGEMENT

The Contractor shall:

1. Generate and manage test data across all environments. Test data shall mirror production data and shall be constructed from copying test data from production and updating the databases as needed in low level environments to include, DEV, INT, QA, TRNG and Pre-Prod. The Contractor shall coordinate test data creation and management across all partner systems including both internal and external.
2. Generate and manage test data across all internal and external partner systems that mirrors production data updating the databases in low level environments.
3. Prepare, maintain, and manage test accounts. The Contractor shall ensure that test accounts are available prior to the commencement of each test cycle. The Contractor shall ensure that test accounts are available and can be authenticated and authorized at all security levels to support proper testing of all functions.
4. Create, update, and modify test accounts as necessary to support UAT.
5. Support changes (in status and workflow in records and test data needed to support user test cases. For example, modify data to support new claims or claims in progress.
6. Provide a preconfigured set of input values to the test scripts that shall run at test execution.

Deliverables:

- A. Test Data

5.2.5.3 UNIT TESTING

The Contractor shall:

1. Develop and deliver unit and test case scenarios and test scripts (See Section 5.2.4)
2. Build a baseline using IBM Rational Suite
3. Perform unit testing and provide results (See Section 5.2.4).

5.2.5.4 FUNCTIONAL TESTING

The Contractor shall:

1. Develop and deliver test case scenarios and test scripts to support individual functional component testing.
2. Execute functional testing including input and exit criteria and expected results to match documented specifications and business needs.
3. Identify functions that the software should perform, create test input base data, determine output of function specification, document pass, fail criteria, execute test cases, and report results as part of the Test Results Report (See Section 5.2.4).

5.2.5.5 SMOKE TESTING

The Contractor shall:

1. Perform smoke testing on IOC computers for code release as part of the defect-fixes and approved enhancement development. The smoke testing shall incorporate real life software test and connection between VistA.js cloud environment and VA security boundary.
2. Perform smoke testing for bug-fix release based on the smoke-testing schedule provided by VA.
3. Complete smoke testing either remotely via secure connection into the test-computer.
4. Provide Test Results as part of the Test Results Report (See Section 5.2.4)

5.2.5.6 INTEGRATION TESTING

The Contractor shall:

1. Develop and deliver integration test plan as part of the Master Test Plan (See Section 5.2.4). The integration test plan shall include a technical integration compliance checklist (pass/fail) for each integration test cycle.
2. Execute integration test scripts after all functional testing and regression testing has been completed.
3. Coordinate and collaborate with feature integration partners on the development and execution of integration testing. Integration testing shall include testing of all interfaces.
4. Document and report integration test findings and integration test incidences as part of the Test Results Report (See Section 5.2.4).

5.2.5.7 USER ACCEPTANCE TESTING (UAT)

The Contractor shall not perform UAT. The Contractor shall be responsible for coordinating, facilitating and providing a test readiness review and test data for UAT activities. UAT will be performed by VA business stakeholders.

The Contractor shall:

1. Develop a high-level UAT Plan as part of the Master Test Plan (See Section 5.2.4).
2. Coordinate and conduct test readiness review for business and IT resources.
3. Create and maintain test data and accounts in preparation for UAT.
4. Document and report test findings and test incidences as part of the User Acceptance Test Results document, which shall be provided to the VA PM for review and approval.
5. Document findings and report defects and issues found during UAT in a Business Stakeholder UAT Report in support of the TRR and the PRR.
6. Ensure that issues found during UAT are resolved during Regression Testing (See Section 5.2.4.5).

Deliverables:

- A. Business Stakeholder User Acceptance Test (UAT) Report

5.2.5.8 REGRESSION TESTING

The Contractor shall:

1. Develop a high-level Regression Test Plan as part of the Master Test Plan (See Section 5.2.4).
2. Validate that all defects discovered during test cycles have been resolved at all VA testing levels.
3. Perform regression testing when a new code base is promoted into each environment. Support framework, processes, and components to enable fully-automated regression testing of services. Use VA's standard defect management tool to generate Defect Tracking Report (See Section 5.2.2.5).
4. Document and report regression test findings and test incidences as part of the Test Results Report (See Section 5.2.4).

5.2.5.9 DEPLOYMENT TESTING

The Contractor shall:

1. Develop and deliver a Release and Installation Guide and the code that will be fault-tolerant in the Pre-Production environments. The Release and Installation Guide shall include all of the steps required to promote the code to the Production environment.
2. Support the VistA.js administrator team to build the application release using master build script(s) and deploy that release to the testing domain in the QA, training, Pre-Production, and production environments.
3. Complete Deployment testing by placing version(s) of code into VA source code repository. Deployment testing documentation shall also include rollback procedures.

Deliverables:

- A. Release and Installation Guide

5.2.5.10 PERFORMANCE TESTING

The Contractor shall:

1. Utilize the capacity plan baseline as the benchmark to determine what needs to be tested in VistA.js applications.
2. Establish a current 'as-is' baseline of performance (capacity and latency) of the 'as-is' system for all processing, rendering, memory, and network loads.
3. Develop and deliver expected outcome(s) and metric indicators of performance testing and benchmarks.
4. Develop a high-level Performance Test Plan as part of the Master Test Plan (See Section 5.2.4). This approach must comply with the VA PMAS and ProPath processes. Performance

testing including stress and load balance testing will ensure that solution architecture supports performance requirements as dictated by the VA business units.

5. Update the RSD (See Section 5.2.1) based on analysis of VA business requirements and findings from the performance benchmarks to include business established KPI's and thresholds.
6. Perform performance modeling and testing to estimate the expectation of success of the target solution. The Contractor shall identify performance issues and remediation before proceeding with development.
7. During integration testing (See Section 5.2.4.5), conduct performance testing against the VACAA/Choice portal solution (subject to the availability and limitations of the feature integration partner's performance test platform), replace estimated component performance in the performance model with actual performance, and develop a performance test report. Determine at what point degradation occurs during system performance and identify remediation to obtain compliance with the performance requirements.
8. Design, configure, and load test modules in the VistA.js cloud hosting test environments.
9. Document and report performance test findings and test incidences as part of the Test Results Report (See Section 5.2.4)

5.2.5.11 508 COMPLIANCE TESTING

The Contractor shall:

1. Develop a 508 Test plan as part of the Master Test Plan (See Section 5.2.4).
2. Document and report 508 test findings and test incidences as part of the Test Results Report (See Section 5.2.4).
3. Prepare the Section 508 customization Conformance Validation Statement (CVS) (in accordance with the VA Section 508 Program Office Conformance Validation Statement [CVS] form) and the VA Section 508 Self-Certification Form and verify that VistA.js complies with all requirements identified in the Section 508 Conformance Validation Statement (CVS). If the application is found not to be VA 508 compliant, the Contractor shall provide the CVS form and a 508 compliance waiver package. All tools used in the environments of the VistA.js and related Programs and all applications produced by VistA.js and related program projects shall be Section 508 compliant as determined by the tests performed by the VA Section 508 Office.
4. Complete Section 508 Self Certification package for each release to include: Self-Certification document, Voluntary Product Accessibility Template (VPAT), Test Methodology Description document, Conformance Validation Statement (VDS), and Plan of Action and Milestone (POAM) and comply with all ProPath and Section 508 requirements for documentation and testing in accordance with the VA Test Process Workgroup (TPWG) and Section 508 testing requirements.
5. Support and provide assistance to the VA staff and other Contractors completing 508 compliance testing.

Deliverables:

- A. Section 508 Customization Conformance Validation Statement
- B. Section 508 Self Certification Package

5.2.5.12 PRODUCTION VALIDATION TESTING

The Contractor shall:

- 1. Develop a Production Validation Test plan as part of the Master Test Plan (See Section 5.2.4).
- 2. Support a Production Validation Test plan as part of the Master Test Plan (See Section 5.2.4).
- 3. Document and report production validation test findings and test incidences as part of the Test Results Report (See Section 5.2.4).

5.2.6 TRAINING

The Contractor shall provide for the training of VA staff in the utilization and operations and maintenance (O&M) of VistA.js Platform, components and services completion for each production development cycle for the duration of this contract. Training documents shall be provided for each release.

The Contractor shall:

- a. Provide a Help Desk Training Package for use by VA Help Desk personnel which consists of a system overview presentation, knowledge-base articles, and help desk troubleshooting procedures and instructions.
- b. Perform hands-on training with VA Help Desk personnel (not to exceed a total of 15 users) prior to the delivery of the VistA.js for production. Provide pertinent information of training sessions to include a list of attendees, and time attended.
- c. Provide a System Administrators/Operations staff Training Package which consists of a system overview presentation, System Administrator Guide, and solution maintenance procedures and instructions.
- d. Perform hands-on training with System Administrators/Operations staff (not to exceed a total of 15 users) prior to the delivery of the VistA.js for production. Provide pertinent information of training session to include a list of attendees and time attended.
- e. Provide an End-User Training Package for use by end-users, (i.e., train-the-trainer), to include VA National Help Desk personnel, which consists of a End-User Training plan, Facilitator's Guide, Users Guide, PowerPoint slides, job aids and exercises.
- f. Perform on-site, hands-on training with designated application end-users (i.e., train-the-trainer), to include VA National Help Desk personnel, (not to exceed a total of 25 users) prior to pilot and national deployment roll-out of the VistA.js for production. Provide pertinent information of training session to include a list of attendees and time attended.
- g. Create and maintain a Developer's Guide.
- h. Create and maintain On-line Help artifacts and scripts in a government hosted repository for Help Desk staff, ITC staff, and end-users.

- i. Support PMAS Formal Product Documentation Reviews.

Deliverables:

- A. Help Desk Training Package
- B. Systems Administrators/Operations Training Package
- C. End-User Training Package
- D. Developer's Guide
- E. Online Help Artifacts

5.2.7 DEPLOYMENT AND RELEASE MANAGEMENT SUPPORT

Deployment refers to all of the activities that make a system, solution or application available for use and is intended to occur upon satisfactorily completing all required approvals and authorizations. Deployment will take place upon completion of code and testing activities and is predicated on sign off of appropriate sponsors. There shall be a deployment package delivered with each Release of the products. The Contractor shall deploy to the sites designated by the Government after contract award. The list of potential sites are listed in PWS Section 4.3.

Additionally, the Contractor shall coordinate with the COR and VA's OIT Service Delivery and Engineering (SDE) and Regional Data Center POCs identified by the Government upon award. The Contractor shall adhere to all applicable policies and procedures to enhance JLV, and the eHMP MRAR Capability as part of the VSA VistA.js architecture and prepare relevant environments. Each release includes scheduling of entry into release calendar and propagation of software through VA approved environments. The Contractor shall provide subject matter expertise to support and coordinate each release with the SDE technical staff and the eHMP MRAR, JLV, and VSA VistA.js Development and Integration teams to resolve issues and ensure that migration is completed as planned to the proper technical environments. The eHMP MRAR, JLV, and VSA VistA.js Development and Integration teams are responsible for providing configuration requirements for services, and for resolving application and connectivity issues related to their applications.

The Contractor shall:

1. Manage all eHMP MRAR, JLV and VSA VistA.js deployments.
2. Develop and maintain a deployment plan for each release that includes an implementation rollout strategy to the pre-production and production environments and transition from the As-Is solution to the To-Be solution.
3. Create, update, maintain, and use detailed pre-deployment checklists during the deployment and installation phase.
4. Create a deployment schedule for software releases as input into IMS, and update deployment schedules as new activities are included in the deployment plan. The Contractor shall work jointly with the VPS MRAR and VetLink 2.0 PMs, the eHMP MRAR PM, the JLV PM, and the VSA VistA.js PM to assess the required level of deployment schedule detail.
5. Work in conjunction with OIT SDE and ESE to provide deployment support for each of the scheduled releases.

6. Implement portions of the eHMP MRAR Capability, JLV, and VSA VistA.js that are relevant to the services being deployed.
7. Manage and update the Initial Operating Capability (IOC) Operational Readiness Review (ORR) process. The Contractor shall perform activities related to the ORR process, as defined by ProPath.
8. Support the activities related to acquiring and maintain the ATOs where applicable within the VA network.
9. Develop maintenance and troubleshooting guide for quick diagnosis of operational problems. The Contractor shall also develop a deployment guide with instructions on how to deploy each component, inclusive of component relationship diagrams.
10. Develop and maintain a technical manual that will document the technical design, interactions with other systems, and configuration.
11. Closely monitor and document the operational solution for a minimum of two weeks to ensure quality and seamless transition for operations support.
12. Deliver Solution Deployment Packages (SDP) with smart scripting to VA in support of project deployment efforts. The SDP shall include all applicable ProPath Artifacts covering the Release Management, Product Documentation, and Product Support phases of the most current ProPath version such as:
 13. Deployment Plan, Operational Acceptance Plan, Deployment Schedule, Deployment Checklists
 14. System Security Plan, Installation Guide, Developer's Guide
 15. Remedy Tickets
16. Participate in coordination activities to review deployment requirements and verify the sufficiency of deployment plans and checklists.
17. The completion of ESE National Release Checklist (NRC) is required to ensure that National Releases meet certain standards for successful deployment. Although VSA VistA.js is an IOC instantiation under this contract, it establishes the base source code in preparation for eventual National Release; therefore, the Contractor shall develop and maintain artifacts to support the NRC readiness. The Contractor shall complete and maintain, as necessary, the following documentation in support of the National Release readiness where applicable:
 - a. Database Application Mapping
 - b. Version Description Document (VDD)
 - c. Release notes
 - d. Production Operations Manual
 - e. Operation and Maintenance Plan
 - f. Patch/Package Completion transition Report
 - g. OED Product Support review
 - h. Service Level Agreements
 - i. Patch for a Patch Reporting
 - j. Contingency Plan
 - k. Backout / Rollout Procedures / Plans
 - l. Database Support Processes and Procedures

- m. Site Readiness Assessment
- n. Software Release with Known Anomaly Reporting Memo (Defect Report)

The Contractor shall provide a Solution Deployment Package that must be reviewed and approved by COR. The Solution Deployment Package shall include the following:

- A. Deployment Plan
- B. Technical Manual
- C. Code
- D. Training Plan
- E. Operational Acceptance Plan (OAP)
- F. Deployment Schedule
- G. Deployment Checklists
- H. System Security Plan
- I. Installation Guide
- J. User Guide
- K. Developer's Guide
- L. Remedy Tickets
- M. Web Services Operations Documentation
- N. Maintenance and Troubleshooting Guide
- O. Deployment Schedule Request
- P. Pre- Deployment Checklist ESE (National Release Checklist)
- Q. Database Application Mapping
- R. Version Description Document (VDD)
- S. Release notes
- T. Production Operations Manual
- U. Operation and Maintenance Plan
- V. Patch/Package Completion transition Report
- W. OED Product Support review
- X. Service Level Agreements
- Y. Patch for a Patch Reporting
- Z. Contingency Plan
- AA. Backout / Rollout Procedures / Plans
- BB . Database Support Processes and Procedures
- CC . Site Readiness Assessment
- DD. Software Release with Known Anomaly Reporting Memo (Defect Report)

Deliverables:

- A. Solution Deployment Package

5.2.8 CONFIGURATION MANAGEMENT

The Contractor shall adhere to VA Enterprise CM policies, plans and processes. The Contractor shall perform CM to ensure the integrity of all software and artifacts in the development and deployment of solutions. The Contractor shall utilize the existing VA CM tool (Rational ClearCase) or equivalent as directed by the Government that is available on the VA network and administered by VA resources. The Contractor shall:

1. Develop, document, and execute a Configuration Management Plan (CMP) aligned with the VA configuration management activities, to guide the CM activities (includes items such as: Roles Responsibilities, process and artifacts (change request form template, change impact statement, and change log).
2. Comply with the Change Control Processes (CCP) and lifecycle management of artifacts within the CMP. Change Control is the formal procedures used to ensure that changes are executed in a controlled and coordinated manner. The VA Project Change Control Board (CCB) will have authority over project deliverable changes and will follow the guidance of VPS program level and work stream level CCPs. The VA project CCB is composed of project team members and project stakeholders.
3. Participate in a project-level CCP that reviews and recommends in-scope changes to authoritative project artifacts and participate by way of attending CCB meetings, review of engineering change summaries, and contributing expertise through technical discussions. The Contractor shall include relevant CCP status information in the Bi-Weekly PD Status Report identified in paragraph 5.1.3.
4. Utilize and manage a CM document repository, using existing VA CM tools that are in compliance with VA enterprise CM guidelines and policies, as outlined in VA Directive 6004, "Configuration, Change, And Release Management Programs," and in the VA Product Development CM program plan. The Contractor shall utilize and maintain the CM repository on the VA network to track project artifacts and change requests, generate change request and code change request reports.
5. Perform CM Auditing of the CCP and CM document repository. The Contractor shall adhere to the VPS CCM audit process and maintain CM auditing procedures and policies.
6. Perform self-audits and be prepared to support Government lead audit of the CM process and system. The Contractor shall conduct self-audit two (2) times yearly, taking place at least 90 days apart.
7. Provide for the finalization and delivery of change requests into build package and integrated software builds. The Contractor shall manage software baselines and build schedule in accordance with the approved IMS and authorized change requests (CR). The Contractor shall provide a weekly report on the status through final disposition for each change request and code change request.
8. Deliver change management requests to VA in compliance with PMAS and utilizing the appropriate ProPath templates.
9. Update any existing document documentation that is not currently following PMAS and ProPath templates to be in PMAS/ProPath compliance.

Deliverables:

- A. Configuration Management Package (CMP)

5.2.8.1 CONFIGURATION MANAGEMENT PACKAGE (CMP) SOLUTION TECHNICAL SUPPORT

The Contractor shall coordinate with the following support functions during the enhancement development cycle: including architecture, configuration management, security, network, and business and transactional analytics.

The Contractor shall:

1. Coordinate installation of all security patches and virus scanning software in accordance with VA security policies.
2. Contribute to and support the technical activities related to security scans to facilitate the Certification and Accreditation (C&A) of the system.
3. Support the activities related to COOP and DR. This would involve working with VA Operations staff to provide technical SME input to COOP and DR plans.
4. Work with Enterprise Architecture to ensure VSA VistA.js passes VA Architectural Reviews and Operational Readiness Review (ORR).
5. Contribute to and support the technical activities related to site content management and system and application performance tuning.
6. Summarization of Technical Support activities shall be provided in the Bi-Weekly PD Status Report identified in section 5.1.3.

5.2.9 TRANSITION ORIENTATION SUPPORT

The Contractor shall provide a Phase-In/Phase-Out Transition Plan in the event that all or part of the tasks are terminated or completely transitioned to the Government or a new Contractor for a one month at the end of the PoP for each respective Optional Task. The Contractor shall submit details for the Phase-Out portion of the Transition Plan, and execute the Phase-Out Transition Plan upon Government approval. All transition actions shall be completed prior to end of PoP. The Contractor shall support the requisite eHMP MRAR, JLV, and VSA VistA.js platform specific project knowledge transfer in accordance with the Government approved Transition Plan and schedule. The Contractor shall complete all required artifacts as specified by PMAS/ProPath and/or COR. The Contractor shall address the following areas in the Transition Plan and assure delivery of all areas to the Government:

1. Coordination of Government and incoming representatives for each task area
2. Roster of key points of contact with email addresses and telephone numbers
3. Transition timeline with key milestones
4. Inventory, review, evaluation, and transition of provided VA-furnished property, to include:
5. Hardware/software
6. Data/databases
7. Inventory and transition of historical data (e.g., memos, letters, correspondence, regulations, reports, documents, transition agreement documents, software licensing agreements, hardware maintenance agreement, memorandums of agreement/ understanding, and inter-service agreements)
8. Procedural manuals/guidelines
9. Operating instructions
10. Data and workflow process
11. Application scheduling process

12. Templates used in day-to-day operations
13. Orientation to introduce incumbent Contractor team, programs, and users to the incoming team, explaining tools, methodologies, and business processes
14. Procedures to introduce Government personnel, programs, and users to the Contractor team's tools, methodologies, and business processes
15. Transition checklist
16. Signed turnover agreements
17. Configurations, System Inventories, and System Topology

The Contractor shall provide a Transition Orientation Package that includes the following:

- A. Transition Plan and Transition Timelines
- B. Transition Team and Stakeholder list
- C. Transition GFE Package:
 1. Hardware
 2. Software
 3. Data
 4. Database
 5. Reports
 6. Historical data and documentation
 7. Manuals
 8. Guidelines
 9. Instructions
 10. Templates
 11. User Guide
 12. Developer's Guide
 13. Procedures
 14. Checklists
 15. Documented agreements
 16. Configurations, System Inventories, and System Topology

Deliverables:

- A. Transition Orientation Package

5.3 MEDICATION RECONCILIATION COMMERCIAL SOFTWARE PROCUREMENT (BASE TASK)

The Contractor shall deliver medication reconciliation source code and associated documentation that meets the following capabilities:

1. Provides a provider facing user experience involving combinations of the following two basic scenarios:
 - i) The Patient is either physically present or otherwise in active collaboration in real-time with their health care provider or staff (e.g., office visit encounter or Telehealth visit);
 - ii) The Patient is not present or otherwise capable of participating in the reconciliation session in real-time due to lack of understanding, injury and/or illness with the provider;
2. Provides a patient facing user experience involving combinations of two basic scenarios:

- i. The Patient is working through the process unaided by the Provider, that is, in a completely standalone interface;
 - ii. The Patient is working through the process in active collaboration with the Provider in real-time;
3. Provides an Administrative user experience, involving the coordination of Patient Provider interaction related to the reconciliation process, in the context of the current visit;
4. Factors in the following combinations of external factors affecting each use case:
 - i. The existence of prescriptions both inside and outside the VA;
 - ii. The use of non-traditional medications;
 - iii. The need for the Provider to be alerted to discrepancies not just in the data but also in the Patient answers, including claims to be taking drugs that are long since beyond a reasonable refill period;
 - iv. The need for the Provider to be alerted to possible adverse reactions during the order entry process;
 - v. Use of or integration with expert systems, in particular InfoButton, to assist in the review;
5. Is 508 compliant, workflow-driven, and facilitate the collection of meaningful runtime metadata to be used for analytics purposes (see Optional Task E for follow-on capabilities leveraging this feature)
6. Is SMART-compliant (Substitutable Medical Applications, Reusable Technologies Platform), both as a consumer and a producer of FHIR-based web applications (Fast Healthcare Interoperability Resources), support Veteran-driven services such as patient check-in, patient registration, and MRAR
7. Provides a demonstration of structured FHIR data used to coordinate interactions between mobile and connected devices;
8. Ensures the solution will enable the VA to align to the HL7 FHIR standard policies with this effort.
9. Prototypes the use of new methods leveraging VistA.js for Single Sign On (SSO) that are aligned with the VA's goals for an enterprise-wide capability for user access and control.
10. Incorporates, leverages, and extends the Cloud-based Medication Image Library (MIL) and enterprise MIL web service (eMIL) into the MRAR Provider and Patient experiences in conjunction with the Service Federation Capabilities being procured in the Base Task and Optional Task E.
11. Incorporates Phase 2 and 3 Requirements for MRAR, as defined by the VA internal Subject Matter Experts and Business Owners in collaboration with the Contractor at closeout of MRAR Phase 1. These include, but are not limited to:
 - i. Incorporating better heuristics for sorting and deduping allergies and medications;
 - ii. Including an alternate order entry workflow;
 - iii. Usability enhancements
 - iv. Other improvements from the Phase 1 backlog
12. Submits the final MRAR application to the appropriate pilot and UAT testing prior to rollout;
13. Provides a capability for reconciliation of clinical data that leverages the new VPS VistA.js Platform. This capability shall be embodied in a web service that can be incorporated into a proven workflow regime of industrial-strength triage as a sub-process for any patient visit, with particular focus on Medications Reconciliation and Allergy Review (MRAR), based on the VistA.js Platform prototype development that was proofed out under a previously awarded BPA.

Deliverables:

- A. Medication Reconciliation Source Code and Associated Documentation
- B. Medication Reconciliation Perpetual Apache Source Code License

5.4 This task is intentionally left black.

5.5 OPTIONAL TASK A - VSA VISTA.JS AND EHMP MRAR IOC ROLLOUT PHASE I (INCREMENTS 2, 3 & 4) (PoP 12 months)

If exercised, the Contractor shall perform the Architecture Development, Integration, Piloting and Deployment for the VSA VistA.js, as described below, in accordance with the Lifecycle Support Tasks identified above in Section 5.2.

The Contractor shall integrate with the capabilities developed during the Base Period and deploy the MRAR capability and the VSA VistA.js Federation Platform to the pilot sites, consisting of five VAMC and six Federation sites. The objective is to test the federation capability under a limited but representative subset of real-world load and local network configuration, and to test the robustness of the framework in a scenario of incomplete federation capability (i.e., in which not all actual sites are accessible or available).

The objective is to demonstrate an ability to release new functionality safely and robustly on a continual basis. This is different than has been the normal practice in the past, but the VA must develop the ability to respond in a more nimble fashion to the need and demands of the Veteran population if it is to maintain the trust of the people it serves and the general public.

The Contractor shall deliver an initial release of the VistA Services Assembler (VSA) runtime and Iteration 1 Wizard capabilities. This shall require the Contractor to work with the COR and VSA Team under the Office of Information & Technology Product Development (OIT PD) to ensure the realization of the VSA capability on the VSA VistA.js Federation Platform meets or exceeds all business requirements identified in the attached VSA Business Requirements Document (BRD). The objective is to improve dramatically the ease with which third-party software can be integrated into the VA's data architecture by decoupling the point-of-service systems and applications from back-end complexities, and developing a capability to orchestrate services and generate bindings to those services automatically.

The Contractor shall ensure that the operation of federation features when anything less than full deployment must provide a means to alert any users of systems relying on such federation that the data provided is incomplete and therefore not suitable as the definitive source for primary care decisions.

a. VISTA ACCESS TO INTERSYSTEMS' CACHE

The Contractor shall provide a solution for non-VistA applications to access VistA data running on InterSystems' Cache.

The Contractor shall provide a solution that:

1. Is stateless in order to support web-based applications and services;
2. Will execute all VistA/FileMan routines and other requests in-process using InterSystems-approved technology;
3. Is configurable with a minimum and maximum size, allowing for scaling up under load without exceeding user connection limits based on licensing of InterSystems Cache;

4. Is compatible with both VA VistA and OSEHRA technology stacks;
5. Is fully configurable and/or extendible to support VA's security requirements (specified in the applicable documents Section 2.0), and shall address the issue of anonymous remote access before it can reach a production system;
6. Provides a means to restrict access to trusted applications using secret keys and digital signing of request signatures;
7. Provides a means to leverage InterSystems Healthshare capability and Direct to facilitate sending and receiving of an industry standard C32 Continuity of Care Document (CCD) transaction between VA and external parties.

b. SERVICE FEDERATION CAPABILITY

The Contractor shall provide a services Federation capability that provides access to enterprise entities including:

- a. instances of VistA,
 - b. the Medication Image Library (MIL), and
 - c. Master Veteran Index (MVI)
- a. The Contractor shall ensure access is federated through a dynamic, data-driven, configurable scoping mechanism that allows system administrators to control runtime routing in production. A specific example of this is the integration of a SOAP service used by the VistA.js platforms. This solution shall be designed to synchronize with other enterprise service registries, to include six VISN Registries and the Enterprise Registry, to include use of the Enterprise Messaging Infrastructure (eMI).
1. The Contractor shall provide a services Federation capability that optimizes fast, data-centric web services to minimize overhead. The Federation capability shall route, with a core focus on routing calls and aggregating results, leaving presentation and further processing of those results to consuming web applications and web services;

The Contractor shall provide a services Federation capability provides an architectural approach that ensures Federation capability is part of an enterprise chain-of-trust architecture that precludes known security vulnerabilities by definition from affecting any of its internal components

c. REMOTE PROCEDURE CALL CAPABILITY

The Contractor shall provide a basic Remote Procedure Call (RPC) documentation mechanism and a mechanism to call RPCs RESTfully;

d. VSA VISTA.JS PLATFORM ENHANCEMENTS

The Contractor shall enhance the VSA VistA.js Federation Platform's services assembly features, including:

- a. Elaborate requirements in the RSD for Iteration 1 and 2.
- b. Provide an Iteration 2 design-time Wizard (per the VSA Team's BRD provided as GFI) that generates services that orchestrate calls to course-grained Application Programming Interfaces (APIs) for transactional write-back to VistA. The Contractor shall develop and test a functional prototype of the wizard and the services it generates, which shall be tested at Pilot sites before being rolled out nationally.

- c. Develop, test and deploy runtime Iteration 2 and 3 features (reference attached BRD) to facilitate deployment, monitoring and management of generated services, as determined by the VSA Team. These features are currently being defined and prioritized by the VSA Team and include:
 - i. Performance monitoring instrumentation capability;
 - ii. Automatic detection of existing authoritative services (to prevent generation of duplicates);
 - iii. Automatic or semi-automatic registration of services with Enterprise Service Bus (ESB/eMI); and
 - iv. Complex orchestration of service calls.
- d. Integration of a SOAP service into the used by the VistA.js platforms
- e. Develop, test and deploy runtime Iteration 2 and 3 features (reference attached BRD) to facilitate deployment, monitoring and management of generated services, as determined by the VSA Team. These features are currently being defined and prioritized by the VSA Team and include:
 - i. Performance monitoring instrumentation capability;
 - ii. Automatic detection of existing authoritative services (to prevent generation of duplicates);
 - iii. Automatic or semi-automatic registration of services with Enterprise Service Bus (ESB/eMI); and
 - iv. Complex orchestration of service calls.

Review and provide updates to the VA OIT Product Development VSA Team's future Iteration Road Map based on lessons learned during this optional task period.

Create and update a Performance Monitoring Plan comprised of the following:

- f. Indicators Definition
- g. Unit of Measurement
- h. Data Disaggregation
- i. Rationale
- j. Responsible Office/ Person
- k. Data Source
- l. Frequency and Timing
- m. Data Collection Methods
- n. Data Quality Assessment Procedures
- o. Data Limitations and actions to address those limitations
- p. Data Analysis Issues
- q. Data Use
- r. Baselines and Targets

e. Medication Reconciliation Capability

The Contractor shall create and update all project artifacts and shall utilize the following sources to intake requirements. These sources could be various product Business Requirements Documents (BRDs), Service Requests (SRs), Change Requests (CRs), and/or existing product and sprint backlogs. The

Contractor's Technical Integration Team shall then perform technical analyses and create technical assessments and populate the relevant product's backlog of stories as needed. A story is a requirement written in the "As a user of the system, I want to (name the function) so that (name the value)". For example, "As a user of the system, I want to login so that I am authenticated as a unique user of the system".

The Contractor shall provide Agile development teams hereafter referred to as SCRUM teams that can perform work on sprints in parallel. Within 10 days of the award of the Contract, the Government VPS Project Manager/COR will provide the Contractor with the selection and prioritization of the products/sites to sprint.

A Sprint includes analysis, design, development, testing, Quality Assurance (QA), documentation, and code check-in of releasable code. A small sprint shall take no more than four (4) weeks to code completion and check-in. A medium sprint shall take no more than six (6) weeks to code completion and check-in. A large sprint shall take no more than nine (9) weeks to code complete and check-in. Sprints could include business requirements from BRDs, SRs, CRs and/or existing product and sprint backlogs.

The Contractor shall perform the following software development activities:

1. The Contractor shall verify all existing requirements, as well as SRs, to ensure they are aligned and documented with MRAR, and subsequently gain VA PM and COR approval prior to commencement of any development activities.
2. Based upon any requirements elaboration resulting from a) above, the Contractor shall submit Design Changes to the VPS PM and COR for review/approval.
3. The Contractor shall test, in accordance with PMAS and ProPath as defined in section 2.0 above, requested MRAR modifications and functionality based on a) and b) above at the end of each sprint cycle. The Contractor shall validate the requirements and document the results. The Contractor shall make Government approved modifications to the MRAR software.
4. The Contractor shall keep all MRAR technical documents current (i.e., Functional Requirements Document (FRD); Technical Design Document (TDD); System Design Document (SDD); and Security Plans). Documents shall be made current and submitted for Government review concurrently with each Release Package submission.
5. The Contractor shall deliver Release Packages to O&M staffs that are fully documented in terms of contents, installation and rollback procedures. For planning purposes one release per quarter is anticipated. However, there may be a need to have up to three emergency releases per quarter, or more frequently, if circumstances arise that require the need to immediately correct any defect or problem which results in system unavailability or critical functionality being unavailable.
6. The Contractor shall document in the Monthly Source Code Change Report all changes to source code in accordance with ProPath and provide Associated Release Notes which indicate what is contained in the release, the defects are functional requirements it addresses and any other special considerations with the release. The Contractor shall hold code reviews, on a per sprint cycle basis, with the VA identified Independent Verification & Validation (IV&V) Contractor, VPS PM and COR to ensure that the source code is adequately documented.

7. The Contractor shall create a brief narrated digital audio/video in-line/on-line recording of capabilities (“sound byte”) at the completion of each Sprint cycle, and persist to Government staff via a VA SharePoint site. Videos should show progress of capabilities being developed. Exceptions can be requested from the COR(s) as needed.

Deliverables:

- A. Increment 2, 3, and 4 Requirements Elaboration
- B. Course-grained APIs
- C. Performance Monitoring Plan and Updates
- D. Monthly Updated MRAR Technical Documents – included at the end of each sprint
- E. Monthly Code Release Packages and Associated Notes – included at the end of each sprint
- F. Monthly Source Code Change Report – included at the end of each sprint
- G. Sprint Retrospective Digital Capability “Sound Bytes”
- H. Initial Vista.JS Platform Source Code, Apache Source Code License, and Associated Documentation

5.5.1 VSA VISTA.JS AND EHMP MRAR IOC ROLLOUT PHASE I (increment 2) 3 months

The Contractor shall develop, test and deploy a VistA.js platform release that satisfies an initial set of the requirements listed in section 5.5.

The Contractor shall integrate Vista.JS and medication reconciliation into a minimum of two VAMC sites and two Federation sites. The list of potential sites are listed in PWS Section 4.3. The objective is to test the federation capability under a limited but representative subset of real-world load and local network configuration, and to test the robustness of the framework in a scenario of incomplete federation capability (i.e., in which not all actual sites are accessible or available).

5.5.2 VSA VISTA.JS AND EHMP MRAR IOC ROLLOUT PHASE I (Increment 3) 6 months

Note that the work against this task shall not start until the PM/COR provides authorization after PMAS Milestone approval for this Increment.

The Contractor shall develop, test and deploy a VistA.js platform release that satisfies an additional set of the requirements listed in section 5.5.

The Contractor shall integrate with the capabilities developed during the Base Period and deploy the MRAR capability and the VSA VistA.js Federation Platform initial snapshot release to the remaining pilot sites. The objective is to test the federation capability under a limited but representative subset of real-world load and local network configuration, and to test the robustness of the framework in a scenario of incomplete federation capability (i.e., in which not all actual sites are accessible or available).

5.5.3 VSA VISTA.JS AND EHMP MRAR IOC ROLLOUT PHASE I (Increment 4) 3 months

Note that the work against this task shall not start until the PM/COR provides authorization after PMAS Milestone approval for this task.

The Contractor shall develop, test and deploy a VistA.js platform release that satisfies all of the requirements listed in section 5.5.

The Contractor shall integrate with the capabilities developed during the Base Period and deploy the MRAR capability and the VSA VistA.js Federation Platform final snapshot release to all of the pilot sites. The objective is to test the federation capability under a limited but representative subset of real-world load and local network configuration, and to test the robustness of the framework in a scenario of incomplete federation capability (i.e., in which not all actual sites are accessible or available).

5.6 OPTIONAL TASK B - VSA VISTA.JS PLATFORM ENHANCEMENTS (INCREMENTS 2, 3, AND 4) (12 MONTH POP)

The Contractor shall perform the Lifecycle Support Tasks (in accordance with Section 5.2) necessary to ready the software for deployment as detailed below in three Increments. This Optional Task can occur either serially to the base period or simultaneously during the base period or any option periods.

The Contractor shall:

1. Enhance the VSA VistA.js Federation Platform's services assembly features, including:
 - a. Provide an Iteration 2 design-time Wizard (per the VSA Team's BRD provided as GFI) that generates services that orchestrate calls to course-grained Application Programming Interfaces (APIs) for transactional write-back to VistA. The Contractor shall develop and test a functional prototype of the wizard and the services it generates, which shall be tested at Pilot sites before being rolled out nationally.
 - b. Develop, test and deploy runtime Iteration 2 and 3 features (reference attached BRD) to facilitate deployment, monitoring and management of generated services, as determined by the VSA Team. These features are currently being defined and prioritized by the VSA Team and include:
 - i. Performance monitoring instrumentation capability;
 - ii. Automatic detection of existing authoritative services (to prevent generation of duplicates);
 - iii. Automatic or semi-automatic registration of services with Enterprise Service Bus (ESB/eMI); and
 - iv. Complex orchestration of service calls.
2. Review and provide updates to the VA OIT Product Development VSA Team's future Iteration Road Map based on lessons learned during this optional task period.
3. Create and update a Performance Monitoring Plan comprised of the following:
 - a. Indicators Definition
 - b. Unit of Measurement
 - c. Data Disaggregation
 - d. Rationale
 - e. Responsible Office/ Person
 - f. Data Source
 - g. Frequency and Timing
 - h. Data Collection Methods
 - i. Data Quality Assessment Procedures
 - j. Data Limitations and actions to address those limitations
 - k. Data Analysis Issues
 - l. Data Use
 - m. Baselines and Targets

Deliverables:

- A. Increment 2, 3, and 4 Requirements Elaboration
- B. Course-grained APIs
- C. Performance Monitoring Plan and Updates

- D. Monthly Updated VSA Vista.Js Enhancements Technical Documents – included at the end of each sprint
- E. Monthly Code Release Packages and Associated Notes – included at the end of each sprint
- F. Monthly Source Code Change Report – included at the end of each sprint
- G. Sprint Retrospective Digital Capability “Sound Bytes”
- H. Initial VSAVista.JS Enhancements Source Code, Apache Source Code License, and Associated Documentation

5.6.1 VSA VISTA.JS PLATFORM INITIAL ENHANCEMENTS (increment 2) 3 months

The Contractor shall develop, test and deploy a VistA.js platform release that satisfies an initial set of the requirements listed in section 5.6.

5.6.2 VSA VISTA.JS PLATFORM ADDITIONAL ENHANCEMENTS (Increment 3) 6 months

Note that the work against this task shall not start until the PM/COR provides authorization after PMAS Milestone approval for this Increment.

The Contractor shall develop, test and deploy a VistA.js platform release that satisfies an additional set of the requirements listed in section 5.6.

5.6.3 VSA VISTA.JS PLATFORM FINAL ENHANCEMENTS (Increment 4) 3 months

Note that the work against this task shall not start until the PM/COR provides authorization after PMAS Milestone approval for this Increment

The Contractor shall develop, test and deploy a VistA.js platform release that satisfies all of the requirements listed in section 5.6.

5.7 OPTIONAL TASK C - JOINT LEGACY VIEWER (JLV) DEVELOPMENT, VISTA.JS INTEGRATION, AND GET THE DATA BACK (GTDB) (12-MONTH PERIOD OF PERFORMANCE)

The Joint Legacy Viewer (JLV) is an Interoperability Web-based Graphical User Interface (GUI) that displays both DoD and VA information in a single chronologically federated view. This information system allows the user to view Service Member and Veteran’s Electronic Health Record (EHR) information such as laboratory, radiology, pharmacy results, clinical notes, orders, and other clinical information. The Contractor shall implement the necessary local VistA services on VistA.js to enable the VA to port the SOAP-based jMeadows and VistA Data Services (VDS) backend services to the REST-based VSA VistA.js Federation Platform. The primary objective of this task is to both simplify and enhance data exchange between both DoD/VA and VA/private sector health entities, according to VA’s interoperability enterprise transition needs defined by VistA Evolution for eHMP, and in support of VPS clinical and healthcare-related services. To bring these capabilities to bear, the Contractor shall perform 2 development increments. Increments 1 and 2 are elaborated in PWS task 5.7.1 as aligned to the base period. All development increments shall be subject to prioritization as documented in a Contractor-developed / VA-approved Agile Release Management Plan. Following development and release to production of the first two increments, the Contractor shall support JLV GTDB marginal sustainment tasks as elaborated in PWS task 5.12. In parallel with the development of JLV GTDB, the Contractor shall provide mandatory sustainment support to the existing JLV system, as elaborated in PWS task 5.13. All Optional Task C requirements shall be subject to Software Assurance Standard Operating Procedures and shall produce the corresponding artifacts elaborated in Addendum B of this PWS.

5.7.1 INCREMENTS 1 AND 2 (12 MONTH PERIOD)

If the Government exercises this Optional Task, the Contractor shall perform two sequential six-month development increments:

1. Perform software development, defect remediation activities necessary to support DoD/VA data exchange, and data exchange between VA and non-VA providers, as well as other services identified by this Optional Task, including VA's Access to Care Community Pilot for the Get the Data Back initiative (GTDB) in support of the VACAA 2015, which will enable greater interoperability between VA and non-VA providers through secure access to VA's federated JLV and eHMP MRAR capabilities.
2. Collaborate with the JLV Team to understand JLV's current data reads from VistA to determine which, if any, may be enhanced through utilization of the VistA.js Platform by an external facing EHR viewer (e.g., JLV) for non-VA providers to access Veterans' EHR as authorized by the patient and on a "need to know" basis, to review existing consults/referrals, orders and/or progress reports, or other relevant administrative and/or medical documentation. The objective initially is to replace existing baseline infrastructure capability without loss of current JLV functionality, and to meet or exceed current performance benchmarks for direct VistA data access, before embarking on new APIs and services.
3. Collaborate with Joint Legacy Viewer (JLV) Team to develop write-back APIs, clarify any ambiguities in the requirements to ensure that they are testable, and to assist in scoping the functional test cases to be executed with each release.
4. Provide informational support for a white paper that will be authored by another Contractor. The white paper will provide rationale for recommending a Convergence Strategy and/or a Deprecation/Retirement Strategy involving legacy systems and/or capabilities that the VSA VistA.js Platform will potentially impact/supersede (e.g., evolving jMeadows, Veterans Data Services (VDS), potential use of FHIR data profiles, the feasibility of implementing a future AHLTA.js, etc.). As a part of the architectural analysis, the Contractor shall provide information that would be needed to develop recommendations that adhere to the following engineering goals: the refactored solution is healthcare standards-compliant, lightweight, highly configurable in real time, supports linked data transactionally, is rules based, and fast with full support for data parallelism and task concurrency.
5. Collaborate with VA/DoD joint-venture sites (e.g., the Captain James A. Lovell Federal Health Care Center) to prototype the use of new methods leveraging VistA.js for Single Sign On (SSO) that are aligned with the VA's goals for an enterprise-wide capability for user access and control.
6. Perform development to support a Get the Data Back (GTDB) Community Pilot and four functional enhancements for deployment, data service performance, bug fixes and UI performance and usability design changes. The Contractor shall provide lessons-learned information to enable the Government to define precise, testable requirements for the GTDB prototype and keep such requirements in sync with each iterative Agile sprint cycle demonstration of the pilot capability.
7. Support GTDB Project through development and/or update of training materials, onboarding and communication with community providers and training community providers, VA staff, and Veterans.

8. Install the v1.0 software developed for the JLV Community Pilot at VA's AITC pre-production environment for the JLV– Get the Data Back (GTDB) project.
9. Coordinate all software code and configuration changes with DoD and its JLV software developer(s) so as to maintain a single DoD/VA Gold version of the configuration.
10. Collaborate with VA to identify opportunities on the new architecture for mapping of targeted federated national standards data that can be displayed with similar mapping from DoD for a single, consistent display of Electronic Health Record (EHR) data from both agencies.
11. Develop/enhance JLV features and application programming interfaces (APIs) to support views of normalized federated data (e.g., FileMan 23 project; VistA Data Standardization project; Data Access Services (DAS) Project; Central VistA Imaging (CVIX) Project). The Government will supply the normalization criteria to be followed as defined in Section 4.5 Government Furnished Property.
12. Continue to perform iterative development and hotfix deployments for resolution of data quality audit bugs, data service performance and UI performance and usability. The Contractor shall utilize Requirements Based Testing (RBT) methodology to reduce or eliminate the introduction of high severity functional defects over time. The Contractor shall continue to make use of performance optimization tuning tools, static analyzers and other methods of improving code quality as further described in Appendix C.
13. Enhance/configure the JLV system to utilize a SOA/ESB framework (e.g., VSA VistA.js) and validate this through testing for VA's Enterprise Messaging Infrastructure (eMI).
14. Migrate jMeadows and VDS to the VSA VistA.js Federation Platform to enable seamless integration with VistA Exchange as envisioned in the to-be architectural recommendations from the Architecture, Design & Strategy (ASD) group.
15. Develop and integrate up to twelve (12) enhanced capabilities, to include JLV widget additions and/or changes, to provide JLV functionality found in VistA Web to include the display eHealth Exchange data from connected partner health care providers as per the table at the end of this section. The Contractor shall work with the Government to develop an Agile Release Management Plan that prioritizes the delivery of these enhancements; prioritizing them in alignment with eHMP's write-back needs and taking other global considerations into account.
16. Retrieve/aggregate, normalize and display all returned GTDB non-VA provider completed medical documentation and/or GTDB intake health data documentation that has been scanned, metadata tagged and/or indexed in VistA Imaging and any other appropriate federated VA artifact data repository where such 3rd Party Non-VA clinical medical documentation may reside.
17. Enhance the JLV system to provide for access control accounting for enhancements to VSA, VA's Enterprise IAM Services and special access controls for outside VA (3rd party contract providers). Specifically provide the following:
 - a. The system shall authenticate users according to organizational policy, scope of practice, and jurisdictional law. Clarification: May include digital certificate, secure token, Common Access Card, Personal Identity Verification (PIV), etc. The Government will

provide all relevant agency policies, scope definitions, and relevant legal references necessary to design this access control mechanism correctly.

- b. The system shall provide or reference a current registry or directory of users that contains data needed to determine levels of access required. The Government will provide the necessary secure infrastructure for such a registry required by law.
 - c. The system shall provide the ability to manage sets of access control permissions granted to users. Specific role-based attributes shall be provided by the Government.
 - d. The system shall prohibit user access to patient health information unless the appropriate authorization(s) is/are applied to the user’s profile. Clarification: Role-based access.
18. Develop same or similar functionality for JLV that exists in VA legacy viewers scheduled to decommission (VistaWeb, CPRS-RDV, CAPRI) where functionality is derived from any/all DOD and/or VA legacy BHIE data feeds.
19. Reengineer JLV SW application architecture load balancing to allow a distributed user volume increase (due to legacy viewer deprecation) equal to 50,000+ concurrent user capacity, with no user perceived system degradation performance issues.
20. Assist with functionality map and gap analysis efforts for VA legacy viewers where users are/may be transitioning to JLV as the To-Be solution.

Table 1: JLV ON VISTA.JS ENHANCEMENTS (Primary list of enhancements for Optional Task C)

Requirement	VW	JLV	eHMP	Priority
Provide the ability to display C32 Health Summaries	Exists	Exists	Exists	Met
Provide the ability to incorporate data content from C32 Health Summaries in widget views e.g. allergies, medications, problems, etc (referred to as aggregate views in VistaWeb)	Exists	Needed	Needed	High
Provide the ability to parse data to be consumable by the GUIs to ensure data can be displayed in domain-specific widgets	Exists	Needed	Needed	High
Provide the ability to request and display C62 formatted clinical notes in appropriate widgets, e.g. surgical note, discharge summary, progress note, etc.	Exists	Needed	Needed	High
Request and display C-CDA Continuity of Care Document from Non-VA partners	Planned	Needed	Needed	High
Display C-CDA CCD using designated VA C-CDA Stylesheet	Planned	Needed	Needed	Med
Display C-CDA Structured Clinical Notes using designated VA stylesheet	Planned	Needed	Needed	High
Query and display unstructured C-CDA clinical notes	Planned	Needed	Needed	High
Display unstructured C-CDA clinical notes using designated VA stylesheet	Planned	Needed	Needed	Med
Provide the ability to initiate a Patient Discovery message at the time of Patient Selection (or pre-fetch and cache)	Planned	Needed	Needed	High
<i>Initiate PD no more than once per 24 hours</i>	Planned	Needed	Needed	High
<i>Do not initiate if Exchange pre-fetched data is available</i>	Planned	Needed	Needed	High
<i>Provide the ability to provide a status of the PD which can take up to 7 mins</i>	Planned	Needed	Needed	Med
Provide the ability to display all known partner correlations for the patient	Exists	Needed	Needed	High
Provide the ability to initiate a request for partner data when the “purpose of use” is Emergency	Planned	Needed	Needed	Med
Provide the ability to initiate a request for partner data when the “purpose of use” is Healthcare Operations	Needed	Needed	Needed	Med
Provide the ability to process query responses as they are received by VLER Health Exchange Adapter, so the user doesn’t have to wait for the receipt of all responses before seeing any results (applies to for real-time “non-cached” data).	Not requested for VW	Needed	Needed	Med
New eHealth Exchange Data Available Indicator:Provide a way for the clinician-GUI to inform the user that new data is available for a particular patient so the clinician doesn’t have to reopen a Health Summary they’ve already reviewed.	Not requested for VW	Needed	Needed	Med
Provide the ability to display data received via external partners and persisted to Vista	Not requested for VW	Needed	Needed	Med

Deliverables:

- A. Informational Input to a White Paper Analysis of Access and Security Implications of using JLV for GTDB Initiatives involving Non-VA Care Entities
- B. Informational Input to a White Paper on Legacy Convergence vs Deprecation/Retirement Strategy for the VSA VistA.js Federation Platform
- C. JLV/eHMP/API 2.0 Integrated VistA.js API Agile Release Management Plan
- D. Training Documentation
- E. Demonstration of Developed Capability for Government Review -
- F. Extended JLV Source Code with VistA.js Integration and Associated Documentation
- G. Extended JLV GTDB Source Code and Associated Documentation
- H. A&A documentation and Risk Assessment Test Results
- I. Updates to Architecture Diagrams
- J. Monthly Updated Technical Documents – included at the end of each sprint
- K. Monthly Code Release Packages and Associated Notes – included at the end of each sprint
- L. Monthly Source Code Change Report – included at the end of each sprint

5.8 OPTIONAL TASK D - CRS INTEGRATION WITH VETERAN TIMELINE/VETERAN DATA, ACCESS ENHANCEMENTS, AND EXTENDING POINT OF SERVICE TO CHOICE

In support of VACAA/Choice Legislation, VistA Evolution, Connected Health, and the target VetLink 2.0 VistA.js architecture to facilitate stream-lined patient check-in processes, a solution must exist or needs to be created that includes enterprise registration, a multi-tenant portal and adapter to one or more instances of VistA and other back-end services at the VA and DoD, provides provenance data models, and provides a general mechanism to de-duplicate and synchronize disparate lists of patient information in order to create a single, structured, unified graph of data about a given patient. This service/capability presents the “patient story” as accurately as current information permits and helps manage the complexity of pulling information from diverse sources together into a standardized format that makes it easy to visualize or narrate the patient history in scenario-specific ways. Contractor has already developed technologies and intellectual property around technology enabled digital documentation which supports multiple UXs, multi-modal data capture and supports customized enterprise workflows, which technologies have been socialized within VA pursuant to a VAI2 Innovation. The desired UX’s should provide a scenario specific “story” depends on this critical, domain-specific capability.

The objective of this optional task is extending *service* both inside and outside of VA. Technology alone is not going to assure a successful outcome. The Contractor shall provide an improved business process that is supported by one or more facilitating technologies based on the requirements below. There are two overarching goals for this optional task:

1. A defined 3-step business process for extended patient check-in.
 - a. **Pre-check:** initiation of the check-in process by the Veteran patient
 - b. Definitive Choice services involving interaction between a clinician and patient
 - c. Close out of the Choice process

The Choice business process requires new roles, tasks, and a new management scheme.

2. A combination (“mash-up”) of both new and existing facilitating information technologies, including COTS technologies, to support a Choice process. This includes:

- a. Technologies that support Customer User Experiences (UXs) including:
 - i. Scenario-specific UXs - each specifically designed to support a specific segment of the business process: pre-check, check-in, and Choice close out
 - ii. Context specific UXs: At run time, the user interface is automatically customized for patient, visit, and provider
 - iii. Multi-modal UXs that support a variety of user input methods: Kiosk, tablet, browser, digital writing on Tablet PC or paper – whatever is best suited for the task at hand.
- b. Incorporation of User Experiences (UXs) technologies that tell the “patient story” and support a variety of user input methods: Kiosk, tablet, browser, digital writing on Tablet PC or paper, speech-to-text – whatever is best suited for the task at hand.
- c. Digitized business rules
- d. Computable workflow definition
- e. Coded ontology/domain model
- f. Connections to systems of record

The enhanced business process must accommodate a number of different check-in scenarios:

1. Traditional check in at the front desk of the clinic
2. A pre-check-in process initiated by either the Veteran or Choice authorization
3. Support for different workflow scenarios: traditional, de-centralized check-in at each clinic, centralized check in at the entrance to the facility, online pre-registration/confirmation, walk-in, and facilitated by a third party administrator (e.g., Choice TPA)

PreCheck

The PreCheck process is completed by the Vet prior to interacting with VA or Choice clinic staff members. PreCheck has four main objectives:

1. Streamline the check-in process at the clinic
2. Enable more active participation by the Vet’s in his/her own care
3. Improve patient safety and the quality of care
4. Facilitate authoritative and accurate data sharing and exchange between VA and Choice providers, and with DoD

PreCheck can be initiated prior to arrival through a multi-tenant portal (e.g., MyVA, MyHealtheVet, VetLink, or a mobile app). Alternatively, it can be initiated when the patient arrives at the check-in area via the Kiosk or a tablet. If the patient completes PreCheck prior to arrival then the Kiosk or tablet session will be abbreviated. Information captured via the portal can be utilized at sites that do not use Kiosks or tablets.

PreCheck encompasses the following tasks:

1. Enterprise registration (if new)
2. Update registration and insurance information
3. Initiate the reconciliation process for medications and allergies (MRAR)
4. Review list of current clinical reminders
5. Answer any clinical screening questionnaires

6. Review pending appointments
7. Complete screening surveys
8. Arrange transportation as necessary based on eligibility rules
9. Notify staff of questions, issues, and special requests

The Veteran is free to complete as many PreCheck tasks as he/she wishes, but increased participation will enhance service.

Nurse/Clinician-Patient Check-in Session:

Enhanced check-in is an activity that is shared by the patient and the check-in clinician. It occurs immediately before the definitive exam by the provider. If PreCheck information was captured, it will be available to facilitate the check-in process. The following tasks are completed during enhanced check-in:

1. Vital signs, including pain scale, are recorded
2. The med and allergy lists are reconciled with patient and any issues or warnings are highlighted for the provider; e.g., no refills remaining, possible drug-drug interaction, etc.
3. The problem list is reviewed with focus on gaps in follow up care
4. Screening survey results are reviewed and validated. Abnormal results are highlighted for the provider
5. The reminder list is reviewed with the patient, and service gaps are resolved (this activity is shared with the provider)
6. Immunizations are proactively offered
7. Upcoming appointments are reviewed and issues with appointments are remedied
8. Patient requests and concerns are reviewed and highlighted

Closeout of Check-in Session

In this step, findings and recommendations from the check-in nurse/clinician are validated and submitted to provider. Then the patient is “roomed and gowned”. If special equipment is needed for the exam, it gets set up here.

Supporting Technology

IT Technology solutions must provide UXs that facilitate storytelling and resolution of knowledge gaps. The Contractor shall include the following essential features as part of the Choice UX:

1. The UX is driven by a defined workflow
2. The UX is supported by an explicit ontology where all the data elements in the domain model can be coded to standards and tagged
3. The UX provides a dynamic, highly-usable interface generated at run time that is scenario-specific and context-specific.
4. The UX can run on a variety of platforms and it supports multiple input modalities
5. The UX is portable and can be linked to multiple applications and systems of record
6. The UX provides built-in usability and workflow metrics
7. The UX has access in a given documentation workflow context to veteran information in a form and format that makes it simple to capture current and complete information, and deal generally with out-of-sync lists from multiple systems (e.g., Clinical Reconciliation Service).
8. Business configurability that provides a variety of tools for creating workflow definitions, ontologies, UX templates and UX business rules.

9. Health Enterprise Shared Services (HESS) based on a VA FoSIM model.

From a functional perspective, the solution shall encompass information captured during all three phases of Choice (Pre-Check, Check-in, and Closeout) within the boundaries of a *contiguous, unique, overarching documentation session* that operates under an explicit set of business rules.

Among the information to be passed to the VA or Choice provider and retrieved shall include:

1. Authorization number(s)
2. Demographics
3. Vital signs
4. Presenting complaint
5. Reconciled med, allergy, and problem lists
6. Screening questionnaire results
7. Any preliminary treatments, immunizations or services identified on the current reminder list
8. Patient questions and concerns for the provider
9. Warnings and recommendations from the check-in nurse

Some information (e.g., immunizations, vital signs, reconciled lists, questionnaire results) will be passed directly to VistA, to Patient Generated Data (PGD), and any other systems of record such as ADR.

The Contractor shall perform software integration of both open source and COTS technology(ies), and shall follow the Lifecycle Support tasks in Section 5.2 in preparation for deployment into IOC pilot environments and shall provide the following capabilities:

Specifically, the Contractor shall:

1. Enhance the existing architecture of eHMP MRAR and JLV on VistA.js to provide a linked-data solution for aggregating information about a Veteran patient described above in Optional Task D in order to support the evolution of a full, longitudinal history, broken into several ontological categories (the patient's "story"):
 - a. Military History
 - b. Clinical History
 - c. Biographical History
 - d. Federal Benefits History
2. Enhance the prototype web-based timeline visualization component to facilitate other modalities of representation, including, text narrative and Windows compatible multimedia, suitable for use by web applications.
3. Deliver a functional, pilot-ready implementation of a Veteran timeline component that shall be incorporated into multiple web-based venues including:
 - a. Vista Exchange (Vx), Veterans Authorization and Preferences (VAP, MyVA, MyHealthVet (MHV), Connected Health, eHMP, JLV, GTDB, and Homelessness Program
 - b. Generic SMART-based web containers, such as those specified at <http://www.smartplatforms.org>.
 - c. Web interface developed for integration with CPRS, eHMP, and JLV.

4. Develop and integrate the pilot-ready implementation with Identity and Access Management (IAM), VIERS, and enterprise DD-214 in accordance with Health Enterprise Shared Services (HESS) as a sub-set to the Member Services Technical Integration (MSTI) work for services such as: VCIS, Benefit Event Notification Service (BENS), inasmuch as these systems support delivery of VA and non-VA healthcare to Veteran patients and offer integration APIs.
5. Provide an enterprise registration orchestration capability that facilitates both new (e.g., walk-in) and existing patients seeking access to care.
6. Provide a pilot-ready implementation for a workflow-driven medical services authorization capability (i.e., issuance and management of authorizations for medical services) integrated with Fee Basis Claims Service (FBCS) that:
 - a. generates a stub authorization opting-in a Choice eligible patient to be seen outside of VA;
 - b. supports transportation requests;
 - c. enables an authorization notification service to update the care coordination team of related status changes (e.g., “authorization completed” status);
 - d. supports associated documentation (e.g., Other Health Insurance (OHI), Explanation of Benefits (EoB));
 - e. supports a claims processing paradigm; and
 - f. triggers a close-out consult in CPRS.
7. Provide Clinical Reconciliation Documentation Service (CRDS) that:
 - a. allows for Clinical Documentation to be tagged, uploadable, and viewable into a patient’s Medical Record and/or Timeline through a Consolidated Clinical Care Documents (C-CCD) web service or equivalent (e.g., JLV, Direct, BlueButton), by either a VA or a non-VA provider;
 - b. provides a query/query response service to load medical documentation with an authorization mechanism into a non-VA care database (e.g., MongoDB, MarkLogic, and Orient).
8. Provide a pilot-ready implementation of a federated bi-directional appointment information service that:
 - a. provides the ability to notify, receive, upload, and share VA and non-VA appointment information in the context of Choice and GTDB.
 - b. supports integration with eBenefits, VHA Call Centers, MHV, eHMP, and VPS; and
 - c. leverages, as necessary, the VA’s Corporate Data Warehouse (CDW) and Hadoop extracts and other Business Intelligence environments as applicable.

Deliverables:

- A. Updates to Architecture Diagrams
- B. IOC Pilot-ready Software Baseline Existing Functional Prototype
- C. Choice Data Ontology and Taxonomy
- D. Database that Implements the Data Model
- E. Use Cases
- F. Detailed Sprint Schedule

G. Monthly Code Release Packages and Associated Notes – included at the end of each sprint
H. CRS with Veterans Timeline Integration Source Code, Apache Source Code License, and Associated Documentation

5.9 OPTIONAL TASK E - PATIENT PROVIDER EXPERIENCE COTS SOFTWARE COMPONENTS

The Contractor shall provide medication reconciliation patient provider experience source code components , associated documentation, and/or combination of enterprise COTS runtime licenses that meets the following requirements:

1. Provides a proof of concept “black box flight recorder” capability using mobile devices, at the point of service and a way to improve the Patient-Provider healthcare experience. This includes establishing a baseline measurement through the ability to capture structured data and metadata, then a data plan to enable ad hoc trans-analytic reports to be run for the following areas:
 - a. Usability of the user interfaces deployed;
 - b. The clinical effectiveness of the overall solution over time;
 - c. The clinical efficiency of the workflows implemented using the solution;
2. Utilizes a draft open source standard specification for analytics-related metadata, suitable for delivery to any enterprise Business Intelligence (BI) environment, such that the metrics obtained from the session are entirely decoupled from the user interface;
3. Provides the ability to obtain all metrics required by the MRAR solution from the pilot trials.
4. Incorporates the Medication Image Library (MIL) and electronic Medication Image Library (eMIL) into the MRAR Provider and Patient experiences.
5. Enables usability metrics to be captured from the application in real time and written out to a separate analytics repository to assist in:
 - a. trend monitoring
 - b. identification of at-risk patients
6. Provides a proof of concept for the transformation of data captured in clinical settings into computable data coded to standards, such as RxNorm. Captured in clinical settings include unsigned order for new medication. Three, different, and automated, variations of this situation to adequately demonstrate the proof of concept for both the data capture and the InfoButton. Provides two use cases to demonstrate prototype structured data capture and shall provide recommendations for future broader-based structured data capture use cases, incorporating additional standards.
7. Captures unstructured data, specifically an annotation or scratch note made by a VA employee or a Choice Provider, at the point of service during a medication reconciliation session resulting in an unsigned order for a new medication being sent to VistA (a data write back to VistA);
8. An “InfoButton” that can provide clinicians with real time medication and adverse interaction information during the medication reconciliation process.

9. Shows interoperability with the data exchange between the client front-end(s) utilizing multiple user experiences, with the use of HL7 FHIR standards using JSON over web services.
10. Demonstrates a prototype InfoButton during a medication reconciliation session between provider and patient. The purpose of the InfoButton will be to supply the clinician with useful feedback in real-time to avoid adverse reactions to the medications being prescribed.

Deliverables:

- A. Patient Provider Experience Source Code components , associated documentation, and/or combination of enterprise COTS runtime licenses, Apache Source Code License, and Associated Documentation - – included at the end of each sprint
- B. Updates to the Architecture Diagrams
- C. Trans-analytics Data Plan
- D. Initial Data Capture and InfoButton Requirements Set and Backlog -
- E. Use Cases
- F. Detailed Sprint Schedule Sprint Retrospective Digital Capability “Sound Bytes”

5.10 OPTIONAL TASK F - VISTA.JS IOC ROLLOUT PHASE II

The Contractor shall perform IOC rollout of all previously developed source code under this PWS to three (3) additional VistA production environments/sites (e.g., Bay Pines, St. Louis, Sacramento VAMCs), and at the Austin Information Technology Center (AITC) and its COOP site, the Philadelphia Information Technology Center (PITC). This Optional Task can occur either serially to the base period or simultaneously during the base period or any option periods.

The Contractor shall:

1. Continue rollout the VSA VistA.js Federation Platform and eHMP MRAR on VistA.js to additional production sites, defined in the initial IOC Deployment Plan developed during the base PoP.
2. Update the BRD and RSD for future enhancements and development based on requirements discovered during this PoP.
3. Create a Lessons Learned Report based on experience gleaned from Optional Tasks C and D respectively.

Deliverables:

- A. Lessons Learned Report
- B. Updates to the Deployment Plan
- C. BRD Updates
- D. RSD Updates

5.11 OPTIONAL TASK G – VISTA.JS IOC ROLLOUT PHASE III

The Contractor shall perform IOC rollout of all previously developed source code under this PWS to three (3) additional VistA production environments/sites (e.g., Tampa, Atlanta, San Diego VAMCs), and at the VA’s Mobile Application Environment (MAE) located as part of VA’s Terremark instance. This Optional Task can occur either serially to the base period or simultaneously during the base period or any option periods.

The Contractor shall:

1. Continue rollout the VSA VistA.js Federation Platform and eHMP MRAR on VistA.js to additional production sites, defined in the initial IOC Rollout Plan developed during the base PoP.
2. Update the BRD and RSD for future enhancements and development based on requirements discovered during this PoP.
3. Create a Lessons Learned Report based on experience gleaned from Optional Tasks A through D respectively.

Deliverables:

- A. Lessons Learned Report
- B. Updates to the IOC Rollout Plan
- C. BRD Updates
- D. RSD Updates

5.12 OPTIONAL TASK H - MARGINAL SUSTAINMENT (Up to 12 MONTHS)

The Contractor shall provide sustainment support to the deployed: eHMP MRAR and VSA VistA.js Platform (Optional Task A); JLV and JLV GTDB (Optional Task C); and HESS (Optional Task D).

The Contractor shall:

1. Provide analysis, design, and development testing and deployment services for enhancements. The Contractor shall enhance, as described in the BRDs referenced in Section 4.5 Government Furnished Property, upgrade and modify the functionality and associated IT hardware components and utility programs that make up the development environment based on the COR approved client requests. Based on the VA's patch release history, the Government anticipates the number of Enhancement Release Work Packages to be implemented in the production environments to be up to 12 deployments annually. The number of requirements or Code Change Requests contained in any given release varies according to the level of effort required to implement the service request. Based on historical data, an average release contains up to twelve (12) high level customer requirements/code change requests. The OIT SDE Team is responsible for installing the release package in the production environment.
 - a. Changes to the database would be all inclusive of interface impacts and new interfaces, components impacted and new components required, relational tables impacted and new tables required, and external application integration points.
 - b. Changes include the following:
 - i. Implementation of new enhancements to the platform based on IOC pilot results and requirements from the business community
 - ii. Fix deficiencies in the platform that are reported by field users.
 - iii. Configuration changes to the application if the underlying sub systems require it. For example, security certificates renewal, database password changes, hardware changes, etc.
2. Develop transition documentation for eventual turnover to Repositories and/or Product Support (PS). Develop a Software Transition Plan for eventual turnover of codes to Repositories and/or Product Support (PS) as follows:

The Contractor shall work with the Government to develop a Software Transition Plan for how the new Code will be turned over to Product Support. The Software Transition Plan shall include the following areas:

- a. Status of all code modules;
- b. Problems encountered during code test, delivery, or deployment;
- c. Problems or issues that require immediate action;
- d. Delivery of all documentation and deliverables (in hard copy and electronic format)
- e. List of key personnel and their roles;
- f. Schedule of future code transfer.

The Contractor shall submit the Transition Plan for Government approval 60 days after contract award. The Contractor shall provide transition services as required to transition code. The Contractor shall record transition support activities in the monthly status report.

3. Provide initial Tier 2 and 3 support of the production systems by performing technical analysis and resolution of software defects impacting critical system functionality. Tier 1 support is handled by the VA National Help Desk. If Tiers 2 and 3 supports are needed, the Contractor will be notified via Remedy tickets; a response shall be made within 12 hours to start the analysis to determine if there is a production outage. In the case of a production outage, a 2 hour response time and the team would be working in conjunction with VA SDE.
4. Report technical help desk support ticket metrics, i.e. quantity by level (tier), time to clear, etc., to the VA in the Monthly PD report.
5. Provide operations analysis of effectiveness and performance of components within the VA operational environment.
6. Perform monthly analysis of system performance to identify, analyze, and report on system performance status.
7. Perform analysis of system performance in response to general help desk inquiries and data calls via Remedy tickets.
8. Report routine analysis results to the VA in the Monthly PD report.
9. Continue to perform iterative development and hotfix deployments for resolution of data quality audit bugs, data service performance and UI performance and usability. The Contractor shall utilize Requirements Based Testing (RBT) methodology to reduce or eliminate the introduction of high severity functional defects over time. The Contractor shall continue to make use of performance optimization tuning tools, static analyzers and other methods of improving code quality as further described in Appendix C.

Deliverables:

- A. Usage Reports
- B. Performance Monitoring Reports

C. Software Transition Plan

5.13 OPTIONAL TASK I - MANDATORY SUSTAINMENT (up to 6 months)

The Contractor shall provide mandatory sustainment support to the deployed: eHMP MRAR and VSA VistA.js Platform (Optional Task A); JLV and JLV GTDB (Optional Task C); and HESS (Optional Task D).

Operation and maintenance activities as referenced in PMAS and ProPath are associated with the on-going support related to the performance of routine, preventive, predictive, scheduled, and unscheduled actions aimed at preventing system failure and correcting software defects with the goal of increasing efficiency and reliability on a continuous basis.

The Contractor shall:

1. Extend Tier 3 technical support and maintenance operations. The Contractor shall address bug fixes and maintenance for the same and provide technical support to keep the production system operational.
2. Provide Tier 3 problem resolution and Tier 2 help services. The Contractor shall respond to routine incident reports within 2 business days of receiving an incident notification. The Contractor shall respond to emergency incident reports within 24 business hours of receiving an incident notification. The Contractor shall correct errors and bugs/defects identified during operations on a prioritized basis. The priority and urgency of fixes will be determined by the VA PM and Contractor QA staff, in accordance with PMAS and ProPath and/or COR approved processes.
3. Provide support to investigate, assess, and diagnosis incidents and technical problems. The Contractor shall maintain the operational status of each project, trace down potential problems, fix defects and work with VA staff to maintain system operations and throughput. The Contractor shall take appropriate remediation actions to expedite the operational recovery and closure of incidents.
4. Report incidents and problems in the weekly status report and the Bi-Weekly Project Report.
5. Execute configuration updates to maintain or enhance the performance solutions in the VA operational environment. Maintenance updates may be inclusive of both necessary software maintenance or recommended hardware changes. The Contractor shall test and validate all configuration changes prior to implementing them in a production environment.
6. Program minor modifications to the system if changes in VA business processes or available hardware necessitate them; these can be estimated to occur one per week. A minor modification is defined as programming that can be completed in less than 40 hours.
7. Perform update to existing software user documentation to reflect changes made based on bug fixes, release updates, and system maintenance.
8. Contribute to and support the quarterly technical activities and related security scans to facilitate the certification and accreditation (C&A) of the system. The Contractor shall support the

activities related to acquiring the Authority to Operate (ATO) within the VA network for each of the resulting solutions that will be created under this PWS.

9. Assist in the development of Enterprise Architecture checklists (i.e., the Technical Reference Model, Enterprise Technical Architecture, VHA Business Function Framework, Enterprise Logical Data Model, etc.) to support Operational Readiness Testing.
10. Update all technical artifacts to reflect current maintenance procedures related to servers and product support.
11. Coordinate with VA to support the transition between O&M vendors as applicable. Maintain software source code and baseline versions, hardware and configuration modifications within the VA Rational ClearQuest repository, or COR approved equivalent configuration management tool.
12. Update existing system user manuals to reflect current functionality.
13. Continue to perform iterative development and hotfix deployments for resolution of data quality audit bugs, data service performance and UI performance and usability. The Contractor shall utilize Requirements Based Testing (RBT) methodology to reduce or eliminate the introduction of high severity functional defects over time. The Contractor shall continue to make use of performance optimization tuning tools, static analyzers and other methods of improving code quality as further described in Appendix C.
14. Update application documentation as necessary
15. Implement Configuration Management for approved changes
16. Deployment support
17. Address Security needs, concerns
18. GOTS product management
19. Provide consultation for Technology Refresh planning
20. Facilitate system administration Operations support

Deliverables:

- A. Software Source Code Baselines
- B. Knowledge Transfer & Training Plan
- C. Software Modifications Summary Report
- D. Software User documentation Updates
- E. System User documentation Updates

- F. Updated application documentation
- G. Configuration management Change Reports
- H. Edit technology refresh planning documents as needed

5.13.1 ADMINISTRATION AND MAINTENANCE

The Contractor shall provide O&M listed below. This shall include system administration, emergent maintenance, end user support, operations analysis, and product fixes. The Contractor shall create, coordinate and manage ongoing updates.

5.13.1.1 SYSTEM ADMINISTRATION

The Contractor shall provide remote assistance to SDE in the operation and system administration and monitoring and trouble shooting. This shall include administration, data input, data manipulation, and data reporting.

The Contractor shall:

1. Adhere to VA IT policies and procedures as described on ProPath as applicable.
2. Maintain logs that track, as a minimum, the following information:
 - User accounts (issued and pending)
 - a. Security
 - b. Planned and scheduled maintenance
 - c. Unplanned maintenance and repair
 - d. System reliability and availability
3. Maintain system documentation, logging changes that may occur as a result of system fixes, system changes, enhancements and expansions.
4. Manage system licenses (where applicable), keeping a log of license expiration periods, notifying the COR not later than ninety (90) days prior to expiration.
5. Support project teams; security, database and network administrators, Information Security Officers (ISOs), operations support staff, stakeholders (including DoD operations and development staff as applicable) and System Administration support staff.
6. Ensure that all routine hardware maintenance and software upgrades are performed in a timely manner and documented in maintenance logs concurrent with the actual maintenance being performed.
7. Utilize log data and system administration tools to diagnose system hardware and software problems, and repair, re-configure or replace defective system components as indicated.
8. Perform system monitoring and analysis on assigned systems to discover risks and inadequacies, and determine the need for expansion, enhancement or revision.
9. Perform routine audits of systems and software to determine utilization and adequacy for demand, and compliance with current hardware and software site license regulations and requirements.

The Contractor shall make logs available to Government staff upon request. The Contractor shall provide all logs and statistical data monthly.

Where system failures occur and cause system downtime, the Contractor shall:

1. Notify the COR immediately, providing a brief description of the known situation. Notification may occur by telephone, but must occur by email with a subject line that reads: NOTIFICATION OF <eHMP MRAR>, or <JLV>, or <VSA VISTA.JS> SYSTEM DOWN!!

2. If the situation is not resolved within two (2) hours of failure, notify the COR and VA PM(s) again, providing an update and an estimated time of resolution/availability.
3. Provide updates at least every two (2) hours until resolution.
4. Following resolution, provide a lessons learned report, identifying the source of the problem, clearly specifying if the outage was a result of facility resource availability, product hardware failure, product software failure, process issue, or human error. The report shall identify the proposed approach for preventing a repeat of the outage.

Deliverables:

- A. System Administration Logs
- B. System Failure Lessons Learned Report

5.13.1.2 ROUTINE MAINTENANCE PLANNING

The Contractor shall conduct routine maintenance planning in coordination with program and project managers as well as site operations managers and administrators. The Contractor shall develop and deliver a detailed routine maintenance schedule that identifies routine maintenance activities by system and site. The Contractor shall conduct routine maintenance on designated IT systems, system components, or other products using maintenance and administration manuals provided as GFI and in accordance with the Government approved Routine Maintenance Schedule. This shall include coordination with system administrators to coordinate maintenance activities with specific site schedules. The Contractor shall notify the system administrator of any required down-time at least seven (7) calendar days prior to event and shall coordinate required down-time to coincide with the least possible impact to VA operations.

Deliverables:

- A. Routine Maintenance Schedule

5.13.1.3 EMERGENT/UNPLANNED MAINTENANCE

The Contractor shall conduct emergent/unplanned maintenance services to respond to unforeseen maintenance and repair requirements as defined by VA mission critical systems standards that are available publicly and to be furnished upon contract award as GFI. The Contractor shall coordinate with routine maintenance manager and system administrator to assess the history of the system, subsystem, or component in question, identify probable cause/source of problem and coordinate immediate repair/replacement strategy. The Contractor shall notify the COR within two (2) hours after initial event to advise of proposed repair strategy. The contractor shall provide a brief (less than 2 page) report summarizing the proposed repair plan. The plan shall be titled Repair Strategy Report. The Contractor shall notify the COR within two (2) hours of any change in status of each repair. The Contractor shall prepare a report for each event, outlining the source of the problem, the complete course of actions taken to correct the problem, the specific action that ultimately resolved the problem and statement as to whether warning notices are indicated for other sites with identical/similar systems/products.

Deliverables:

- A. Repair Strategy Report
- B. Repair Summary Report

5.13.1.4 ADMINISTRATION HELPDESKS (HD)

The Contractor shall provide support to HD Administrators and shall be accessible to SDE, VPS and VistA Evolution (VE) teams and end users utilizing VSA VistA.js supported subsystems or components. The Contractor shall provide support accessing environments, configuration of environments, and general server support. The service shall be available Monday through Friday from 8:00AM to 5:00PM, Eastern Standard Time (EST). The HD shall be closed on weekends and all Federal holidays.

The Contractor shall support on average one (1) call a day taking less than two (2) hours to totally resolve during a reporting period (3 months).

There shall be two (2) ways to contact the HD:

1. Phone: The contractor shall provide a telephone number at which the system administrator contract resource(s) shall be available. If a customer calls the HD and a technician is not available, the customer shall have the option to leave a voice mail message requesting a callback. The HD shall respond to voice mail messages within two (2) hours during the hours of operation.
2. E-mail via a System Administrator email group to be provided by VA: The HD shall respond to e-mail requests within two (2) hours of the request when received during the hours of operation. Responses to emails received after the normal hours of operation shall be made within two (2) hours of the start of the next business day within the hours of operation.

The Contractor shall complete a quarterly report summarizing the requests received during the prior period. The following format shall be used:

SA Quarterly Report *month*, 20**

	Total Incidents
New Account/Update Account	
Connectivity – External	
Database	
External Interface	
Software	
Software Change Request	
Infrastructure	
Total Incidents	

Deliverables:

- A. Enrollment System Administrator Quarterly Report

5.13.1.5 REMEDY DEFECT RESOLUTION

The Contractor shall provide support to the Remedy Defect Resolution project. This project encompasses Tier 3 support from developmental engineer and resolution of defects on all systems associated with the programs respectively. Based on historical data, a typical month consists of 5 to 10 defects that require

triage, analysis, and resolution; however, given this is a newly deployed architecture, there will likely be a higher rate of defects discovered, and then plateau by the end of the PoP. The Contractor shall support this work through the life of the task, and shall be incorporated into the quarterly releases, unless otherwise mandated due to criticality of the defect.

The Contractor shall adhere to the established Change Management processes for defect management as defined by the Configuration Manager and Project Manager. Defects are captured in VA operated Clear Quest (Rational) Tool or COR approved equivalent in support of an Agile approach. The Contractor shall also be responsible for updating the Remedy ticket(s) addressed by the defects being resolved unless otherwise directed by the Government.

The Contractor shall be responsible for developing the software/code and updating associated documentation. The Contractor shall update the existing documents identified in PWS Paragraph 5.2.

The Contractor shall provide a Release Documentation Package for each platform remedy defect resolution that consists of a defect resolution checklist, test checklist, version description document, and operational manual.

Deliverables:

- A. Software/Code Associated Documentation Updates
- B. Release Documentation Package
- C. Usage Reports
- D. Performance Monitoring Reports

6.0 GENERAL REQUIREMENTS

6.1 ENTERPRISE AND IT FRAMEWORK

The Contractor shall support the VA enterprise management framework. In association with the framework, the Contractor shall comply with OI&T Technical Reference Model (One-VA TRM). One-VA TRM is one component within the overall Enterprise Architecture (EA) that establishes a common vocabulary and structure for describing the information technology used to develop, operate, and maintain enterprise applications. One-VA TRM includes the Standards Profile and Product List that collectively serves as a VA technology roadmap. Architecture, Strategy, and Design (ASD) has overall responsibility for the One-VA TRM.

The Contractor shall ensure Commercial Off-The-Shelf (COTS) product(s), software configuration and customization, and/or new software are PIV-enabled by accepting HSPD-12 PIV credentials using VA Enterprise Technical Architecture (ETA), <http://www.ea.oit.va.gov/EAOIT/OneVA/EAETA.asp>, and VA Identity and Access Management (IAM) approved enterprise design and integration patterns, http://www.techstrategies.oit.va.gov/docs_design_patterns.asp. The Contractor shall ensure all Contractor delivered applications and systems are compliant with VA Identity Management Policy (VAIQ# 7011145), Continued Implementation of Homeland Security Presidential Directive 12 (VAIQ#7100147), and VA IAM enterprise identity management requirements (IAM Identity Management Business Requirements Guidance document), located at <https://www.voa.va.gov/documentlistpublic.aspx?NodeID=514>. The Contractor shall ensure all Contractor delivered applications and systems provide user authentication services compliant with NIST

Special Publication 800-63-2, VA Handbook 6500 Appendix F, “VA System Security Controls”, and VA IAM enterprise requirements for both direct and assertion based authentication. Direct authentication at a minimum must include Public Key Infrastructure (PKI) based authentication supportive of both Personal Identity Verification (PIV) and Common Access Card (CAC). Assertion authentication at a minimum must include Security Assertion Markup Language (SAML) token authentication and authentication/account binding based on trusted headers. Specific Identity and Access Management PIV requirements are set forth in OMB Memoranda M-04-04

(<http://www.whitehouse.gov/sites/default/files/omb/memoranda/fy04/m04-04.pdf>), M-05-24
 (<http://www.whitehouse.gov/sites/default/files/omb/memoranda/fy2005/m05-24.pdf>), M-11-11
 (<http://www.whitehouse.gov/sites/default/files/omb/memoranda/2011/m11-11.pdf>), National Institute of Standards and Technology (NIST) Federal Information Processing Standard (FIPS) 201-2, and supporting NIST Special Publications. For applications, software, or hardware that cannot support PIV authentication, a Risk Based Decision must be approved by the Deputy Assistant Secretary for Information Security.

The Contractor solution shall support the latest Internet Protocol Version 6 (IPv6) based upon the directive issued by the Office of Management and Budget (OMB) on September 28, 2010 (<https://cio.gov/wp-content/uploads/downloads/2012/09/Transition-to-IPv6.pdf>) & (<http://www.cybertelecom.org/dns/ipv6usg.htm>). IPv6 technology, in accordance with the USGv6: A Technical Infrastructure for USGv6 Adoption (<http://www.nist.gov/itl/antd/usgv6.cfm>) and the NIST SP 800 series applicable compliance (<http://csrc.nist.gov/publications/PubsSPs.html>), shall be included in all IT infrastructures, application designs, application development, operational systems and sub-systems, and their integration. All public/external facing servers and services (e.g. web, email, DNS, ISP services, etc.) shall support native IPv6 users, including all internal infrastructure and applications shall communicate using native IPv6 operations. Guidance and support of improved methodologies which ensure interoperability with legacy protocol and services, in addition to OMB/VA memoranda, can be found at <https://www.voa.va.gov/documentlistpublic.aspx?NodeID=282>.

The Contractor solution shall meet the requirements outlined in Office of Management and Budget Memorandum M08-05 mandating Trusted Internet Connections (TIC) (<http://www.whitehouse.gov/sites/default/files/omb/assets/omb/memoranda/fy2008/m08-05.pdf>), M08-23 mandating Domain Name System Security (NSSEC) (<http://www.whitehouse.gov/sites/default/files/omb/assets/omb/memoranda/fy2008/m08-23.pdf>), and shall comply with the Trusted Internet Connections (TIC) Reference Architecture Document, Version 2.0 (http://www.dhs.gov/sites/default/files/publications/TIC_Ref_Arch_v2%200%202013.pdf).

The Contractor IT end user solution that is developed for use on standard VA computers shall be compatible with and be supported on the standard VA operating system, currently Windows 7 (64bit), Internet Explorer 9 and Microsoft Office 2010. In preparation for the future VA standard configuration update, end user solutions shall also be compatible with Internet Explorer 11, Office 2013, and Windows 8.1. However, Internet Explorer 11, Office 2013 and Windows 8.1 are not the VA standard yet and are currently not approved for use on the VA Network, but are in-process for future approval by OI&T. Upon the release approval of Internet Explorer 11, Office 2013, and Windows 8.1 individually as the VA standard, Internet Explorer 11, Office 2013, and Windows 8.1 will supersede Internet Explorer 9, Office 2010, and Windows 7 respectively. Applications delivered to the VA and intended to be deployed to Windows 7 workstations shall be delivered as a signed .msi package and updates shall be delivered in signed .msp file formats for easy deployment using System Center Configuration Manager (SCCM) VA's

current desktop application deployment tool. Signing of the software code shall be through a vendor provided certificate that is trusted by the VA using a code signing authority such as Verizon/Cybertrust or Symantec/VeriSign. The Contractor shall also ensure and certify that their solution functions as expected when used from a standard VA computer, with non-admin, standard user rights that have been configured using the United States Government Configuration Baseline (USGCB) specific to the particular client operating system being used.

The Contractor shall support VA efforts in accordance with the PMAS that mandates all new VA IT projects/programs use an incremental development approach, requiring frequent delivery milestones that deliver new capabilities for business sponsors to test and accept functionality. Implemented by the Assistant Secretary for IT, PMAS is a VA-wide initiative to better empower the OI&T Project Managers and teams to meet their mission: delivering world-class IT products that meet business needs on time and within budget.

The Contractor shall utilize ProPath, the OI&T-wide process management tool that assists in the execution of an IT project (including adherence to PMAS standards). It is a one-stop shop providing critical links to the formal approved processes, artifacts, and templates to assist project teams in facilitating their PMAS-compliant work. ProPath is used to build schedules to meet project requirements, regardless of the development methodology employed.

6.2 SECURITY AND PRIVACY REQUIREMENTS

It has been determined that protected health information may be disclosed or accessed and a signed Business Associate Agreement (BAA) shall be required. The Contractor shall adhere to the requirements set forth within the BAA, referenced in Section D of the contract.

6.2.1 POSITION/TASK RISK DESIGNATION LEVEL(S)

Contractors working at the Contractor’s facility will be provided access to VA Citrix Remote Access/ Citrix Access Gateway (CAG) to obtain access to the pre-production and production environments provided by VA. Network access and/or badges will only be granted when background check has been completed successfully.

Position Sensitivity	Background Investigation (in accordance with Department of Veterans Affairs 0710 Handbook, “Personnel Suitability and Security Program,” Appendix A)
Low / Tier 1	Tier 1 / National Agency Check with Written Inquiries (NACI) A Tier 1/NACI is conducted by OPM and covers a 5-year period. It consists of a review of records contained in the OPM Security Investigations Index (SII) and the DOD Defense Central Investigations Index (DCII), FBI name check, FBI fingerprint check, and written inquiries to previous employers and references listed on the application for employment. In VA it is used for Non-sensitive or Low Risk positions.

Position Sensitivity	Background Investigation (in accordance with Department of Veterans Affairs 0710 Handbook, "Personnel Suitability and Security Program," Appendix A)
Moderate / Tier 2	Tier 2 / Moderate Background Investigation (MBI) A Tier 2/MBI is conducted by OPM and covers a 5-year period. It consists of a review of National Agency Check (NAC) records [OPM Security Investigations Index (SII), DOD Defense Central Investigations Index (DCII), FBI name check, and a FBI fingerprint check], a credit report covering a period of 5 years, written inquiries to previous employers and references listed on the application for employment; an interview with the subject, law enforcement check; and a verification of the educational degree.
High / Tier 4	Tier 4 / Background Investigation (BI) A Tier 4/BI is conducted by OPM and covers a 10-year period. It consists of a review of National Agency Check (NAC) records [OPM Security Investigations Index (SII), DOD Defense Central Investigations Index (DCII), FBI name check, and a FBI fingerprint check report], a credit report covering a period of 10 years, written inquiries to previous employers and references listed on the application for employment; an interview with the subject, spouse, neighbors, supervisor, co-workers; court records, law enforcement check, and a verification of the educational degree.

The position sensitivity and the level of background investigation commensurate with the required level of access for the following tasks within the Performance Work Statement are:

Position Sensitivity and Background Investigation Requirements by Task

<u>Task Number</u>	<u>Tier1 / Low / NACI</u>	<u>Tier 2 / Moderate / MBI</u>	<u>Tier 4 / High / BI</u>
5.1-5.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The Tasks identified above and the resulting Position Sensitivity and Background Investigation requirements identify, in effect, the Background Investigation requirements for Contractor individuals, based upon the tasks the particular Contractor individual will be working. The submitted Contractor Staff Roster must indicate the required Background Investigation Level for each Contractor individual based upon the tasks the Contractor individual will be working, in accordance with their submitted proposal.

6.2.2 CONTRACTOR PERSONNEL SECURITY REQUIREMENTS

Contractor Responsibilities:

- a. The Contractor shall prescreen all personnel requiring access to the computer systems to ensure they maintain the appropriate Background Investigation, and are able to read, write, speak and understand the English language.
- b. The Contractor shall bear the expense of obtaining background investigations.
- c. Within 5 business days after award, the Contractor shall provide an initial roster of Contractor and Subcontractor employees to the COR to begin their background investigations in accordance with the ProPath template. The Contractor Staff Roster shall contain the

- Contractor's Full Name, Date of Birth, Place of Birth, individual background investigation level requirement (based upon Section 6.2 Tasks), etc. The Contractor shall submit full Social Security Numbers either within the Contractor Staff Roster or under separate cover to the COR. The Contractor Staff Roster shall be updated and provided to VA within 1 day of any changes in employee status, training certification completion status, Background Investigation level status, additions/removal of employees, etc. throughout the PoP. The Contractor Staff Roster shall remain a historical document indicating all past information and the Contractor shall indicate in the Comment field, employees no longer supporting this contract. The preferred method to send the Contractor Staff Roster or Social Security Number is by encrypted e-mail. If unable to send encrypted e-mail, other methods which comply with FIPS 140-2 are to encrypt the file, use a secure fax, or use a traceable mail service.
- d. The Contractor should coordinate the location of the nearest VA fingerprinting office through the COR. Only electronic fingerprints are authorized.
 - e. The Contractor shall ensure the following required forms are submitted to the COR within 5 days after contract award:
 - 1) For a Tier 1/Low Risk designation:
 - a) OF-306
 - b) DVA Memorandum – Electronic Fingerprints
 - 2) For Tier 2/Moderate or Tier 4/High Risk designation:
 - a) OF-306
 - b) VA Form 0710
 - c) DVA Memorandum – Electronic Fingerprints
 - f. The Contractor personnel shall submit all required information related to their background investigations (completion of the investigation documents (SF85, SF85P, or SF 86) utilizing the Office of Personnel Management's (OPM) Electronic Questionnaire for Investigations Processing (e-QIP) after receiving an email notification from the Security and Investigation Center (SIC).
 - g. The Contractor employee shall certify and release the e-QIP document, print and sign the signature pages, and send them encrypted to the COR for electronic submission to the SIC. These documents shall be submitted to the COR within 3 business days of receipt of the e-QIP notification email. (Note: OPM is moving towards a "click to sign" process. If click to sign is used, the Contractor employee should notify the COR within 3 business days that documents were signed via eQIP).
 - h. The Contractor shall be responsible for the actions of all personnel provided to work for VA under this contract. In the event that damages arise from work performed by Contractor provided personnel, under the auspices of this contract, the Contractor shall be responsible for all resources necessary to remedy the incident.
 - i. A Contractor may be granted unescorted access to VA facilities and/or access to VA Information Technology resources (network and/or protected data) with a favorably adjudicated Special Agreement Check (SAC) or "Closed, No Issues" (SAC) finger print results, training delineated in VA Handbook 6500.6 (Appendix C, Section 9), and, the signed

“Contractor Rules of Behavior.” However, the Contractor will be responsible for the actions of the Contractor personnel they provide to perform work for VA. The investigative history for Contractor personnel working under this contract must be maintained in the database of the Office of Personnel Management (OPM).

- j. The Contractor, when notified of an unfavorably adjudicated background investigation on a Contractor employee as determined by the Government, shall withdraw the employee from consideration in working under the contract.
- k. Failure to comply with the Contractor personnel security investigative requirements may result in loss of physical and/or logical access to VA facilities and systems by Contractor and Subcontractor employees and/or termination of the contract for default.
- l. Identity Credential Holders must follow all HSPD-12 policies and procedures as well as use and protect their assigned identity credentials in accordance with VA policies and procedures, displaying their badges at all times, and returning the identity credentials upon termination of their relationship with VA.

Deliverable:

- A. Contractor Staff Roster

6.3 METHOD AND DISTRIBUTION OF DELIVERABLES

The Contractor shall deliver documentation in electronic format, unless otherwise directed in Section B of the solicitation/contract. Acceptable electronic media include: MS Word 2000/2003/2007/2010, MS Excel 2000/2003/2007/2010, MS PowerPoint 2000/2003/2007/2010, MS Project 2000/2003/2007/2010, MS Access 2000/2003/2007/2010, MS Visio 2000/2002/2003/2007/2010, AutoCAD 2002/2004/2007/2010, and Adobe Postscript Data Format (PDF).

6.4 PERFORMANCE METRICS

The table below defines the Performance Standards and Acceptable Performance Levels for Objectives associated with this effort.

The Contractor shall monitor performance against the established schedule, milestones, risks and resource support outlined in the approved CPMP. The Contractor shall report any deviations in the Monthly Progress Report.

The Government will utilize a Quality Assurance Surveillance Plan (QASP) throughout the life of the contract to ensure that the Contractor is performing the services required by this PWS in an acceptable manner. The Government reserves the right to alter or change the QASP at its own discretion. A Performance Based Service Assessment Survey will be used in combination with the QASP to assist the Government in determining acceptable performance levels. The COR will determine if the performance of the Contractor is below a metric standard and deem it unacceptable. The COR will then notify the Contracting Officer.

Performance Objective	Performance Standard	Acceptable Performance Levels
A. Technical Needs	1. Shows understanding of	Satisfactory or higher

	<ul style="list-style-type: none"> requirements 2. Efficient and effective in meeting requirements 3. Meets technical needs and mission requirements 4. Offers quality services/products 	
B. Project Milestones and Schedule	<ul style="list-style-type: none"> 1. Quick response capability 2. Products completed, reviewed, delivered in timely manner 3. Notifies customer in advance of potential problems 	Satisfactory or higher
C. Project Staffing	<ul style="list-style-type: none"> 1. Currency of expertise 2. Personnel possess necessary knowledge, skills and abilities to perform tasks 	Satisfactory or higher
D. Value Added	<ul style="list-style-type: none"> 1. Provided valuable service to Government 2. Services/products delivered were of desired quality 	Satisfactory or higher

The Government will utilize a QASP throughout the life of the contract to ensure that the Contractor is performing the services required by this PWS in an acceptable manner. The Government reserves the right to alter or change the surveillance methods in the QASP at its own discretion.

6.5 FACILITY/RESOURCE PROVISIONS

The Government will provide office space, telephone service and system access when authorized contract staff work at a Government location as required in order to accomplish the Tasks associated with this PWS. All procedural guides, reference materials, and program documentation for the project and other Government applications will also be provided on an as-needed basis.

The Contractor shall request other Government documentation deemed pertinent to the work accomplishment directly from the Government officials with whom the Contractor has contact. The Contractor shall consider the COR as the final source for needed Government documentation when the Contractor fails to secure the documents by other means. The Contractor is expected to use common knowledge and resourcefulness in securing all other reference materials, standard industry publications, and related materials that are pertinent to the work.

VA will provide access to VA specific systems/network as required for execution of the task via remote access technology (e.g. CAG, site-to-site Virtual Private Network (VPN), or VA Remote Access Security Compliance Update Environment (RESCUE)). This remote access will provide access to VA specific software such as Veterans Health Information System and Technology Architecture (VistA), ClearQuest, ProPath, Primavera, and Remedy, including appropriate seat management and user licenses. The Contractor shall utilize Government-provided software development and test accounts, document and requirements repositories, etc. as required for the development, storage, maintenance and delivery of

products within the scope of this effort. The Contractor shall not transmit, store or otherwise maintain sensitive data or products in Contractor systems (or media) within the VA firewall in accordance with (IAW) VA Handbook 6500.6 dated March 12, 2010. All VA sensitive information shall be protected at all times in accordance with local security field office System Security Plans (SSP's) and Authority to Operate (ATO)'s for all systems/LAN's accessed while performing the tasks detailed in this PWS. For detailed Security and Privacy Requirements (additional requirements of the contract consolidated into an addendum for easy reference) refer to ADDENDUM A – ADDITIONAL VA SECURITY REQUIREMENTS, CONSOLIDATED Additional VA Requirements, Consolidated and ADDENDUM B - VA Information And Information System Security/Privacy Language.

6.6 GOVERNMENT FURNISHED PROPERTY

The Contractor will be provided access to Government Furnished Equipment (GFE). The Government will furnish laptops to Contract staff where deemed appropriate to facilitate development, testing, installation and deployment of the capabilities described in this PWS. VA may provide VA-specific software as required and software maintenance manuals or related technical specification documentation as Government Furnished Information (GFI) upon contract award. The Contractor shall utilize VA provided software development and test accounts, document and requirements repositories and others as required for the development, storage, maintenance and delivery of products. Contractor personnel shall be provided PIV badge, VA Test account access, access to VA Citrix Remote Access/ CAG and VPN and VPN.

The Government will provide access to the following documentation that describes the baseline system to be used as attachments to the PWS at solicitation:

- A. MRAR Project Business Requirements Document (BRD)
- B. MRAR Requirements Specification Document (RSD)
- C. VistA.js Project BRD
- D. VistA.js Project RSD
- E. VistA.js Project Systems Design Document (SDD)
- F. VistA Architecture, Service Description Document and Interface Control Document (ICD)
- G. Health Information Exchange Viewer (HIEV) BRD
- H. Get The Data Back BRD
- I. VACAA BRD
- J. Enterprise DD214 BRD
- K. Veterans Contact Information Service (VCIS or eCIS) BRD
- L. Master Veteran Index (MVI) SDD, and Service Description Document
- M. eHMP SDD and ICD

The Government is prepared to provide the Contractor with the above Government Furnished Materials, requirements documentation and Information as soon as all security and privacy training is complete, background investigations have been initiated in the e-quip system.

ADDENDUM A – ADDITIONAL VA SECURITY REQUIREMENTS, CONSOLIDATED

A1.0 Cyber and Information Security Requirements for VA IT Services

The Contractor shall ensure adequate LAN/Internet, data, information, and system security in accordance with VA standard operating procedures and standard PWS language, conditions, laws, and regulations. The Contractor's firewall and web server shall meet or exceed VA minimum requirements for security. All VA data shall be protected behind an approved firewall. Any security violations or attempted violations shall be reported to the VA Program Manager and VA Information Security Officer as soon as possible. The Contractor shall follow all applicable VA policies and procedures governing information security, especially those that pertain to certification and accreditation.

Contractor supplied equipment, PCs of all types, equipment with hard drives, etc. for contract services must meet all security requirements that apply to Government Furnished Equipment (GFE) and Government Owned Equipment (GOE). Security Requirements include: a) VA Approved Encryption Software must be installed on all laptops or mobile devices before placed into operation, b) Bluetooth equipped devices are prohibited within VA; Bluetooth must be permanently disabled or removed from the device, c) VA approved anti-virus and firewall software, d) Equipment must meet all VA sanitization requirements and procedures before disposal. The COR, CO, the Project Manager, and the Information Security Officer (ISO) must be notified and verify all security requirements have been adhered to.

Each documented initiative under this contract incorporates VA Handbook 6500.6, "Contract Security," March 12, 2010 by reference as though fully set forth therein. The VA Handbook 6500.6, "Contract Security" shall also be included in every related agreement, contract or order. The VA Handbook 6500.6, Appendix C, is included in this document as Addendum B.

Training requirements: The Contractor shall complete all mandatory training courses on the current VA training site, the VA Talent Management System (TMS), and will be tracked therein. The TMS may be accessed at <https://www.tms.va.gov>. If you do not have a TMS profile, go to <https://www.tms.va.gov> and click on the "Create New User" link on the TMS to gain access.

Contractor employees shall complete a VA Systems Access Agreement if they are provided access privileges as an authorized user of the computer system of VA.

A2.0 VA Enterprise Architecture Compliance

The applications, supplies, and services furnished under this contract must comply with One-VA Enterprise Architecture (EA), available at <http://www.ea.oit.va.gov/index.asp> in force at the time of issuance of this contract, including the Program Management Plan and VA's rules, standards, and guidelines in the Technical Reference Model/Standards Profile (TRMSP). VA reserves the right to assess contract deliverables for EA compliance prior to acceptance.

VA Internet and Intranet Standards:

The Contractor shall adhere to and comply with VA Directive 6102 and VA Handbook 6102, Internet/Intranet Services, including applicable amendments and changes, if the Contractor's work includes managing, maintaining, establishing and presenting information on VA's Internet/Intranet Service Sites. This pertains, but is not limited to: creating announcements; collecting information; databases to be accessed, graphics and links to external sites.

Internet/Intranet Services Directive 6102 is posted at (copy and paste the following URL to browser): http://www1.va.gov/vapubs/viewPublication.asp?Pub_ID=409&FType=2

Internet/Intranet Services Handbook 6102 is posted at (copy and paste following URL to browser):
http://www1.va.gov/vapubs/viewPublication.asp?Pub_ID=410&FType=2

A3.0 Notice of the Federal Accessibility Law Affecting All Electronic and Information Technology Procurements (Section 508)

On August 7, 1998, Section 508 of the Rehabilitation Act of 1973 was amended to require that when Federal departments or agencies develop, procure, maintain, or use Electronic and Information Technology, that they shall ensure it allows Federal employees with disabilities to have access to and use of information and data that is comparable to the access to and use of information and data by other Federal employees. Section 508 required the Architectural and Transportation Barriers Compliance Board (Access Board) to publish standards setting forth a definition of electronic and information technology and the technical and functional criteria for such technology to comply with Section 508. These standards have been developed and published with an effective date of December 21, 2000. Federal departments and agencies shall develop all Electronic and Information Technology requirements to comply with the standards found in 36 CFR 1194.

A4.0 Section 508 – Electronic and Information Technology (EIT) Standards

The Section 508 standards established by the Architectural and Transportation Barriers Compliance Board (Access Board) are incorporated into, and made part of all VA orders, solicitations and purchase orders developed to procure Electronic and Information Technology (EIT). These standards are found in their entirety at: <http://www.section508.gov> and <http://www.section508.gov/acquisition-regulations>. A printed copy of the standards will be supplied upon request. The Contractor shall comply with the technical standards as marked:

- § 1194.21 Software applications and operating systems
- § 1194.22 Web-based intranet and internet information and applications
- § 1194.23 Telecommunications products
- § 1194.24 Video and multimedia products
- § 1194.25 Self-contained, closed products
- § 1194.26 Desktop and portable computers
- § 1194.31 Functional Performance Criteria
- § 1194.41 Information, Documentation, and Support

Equivalent Facilitation

Alternatively, offerors may propose products and services that provide equivalent facilitation, pursuant to Section 508, subpart A, §1194.5. Such offerors will be considered to have provided equivalent facilitation when the proposed deliverables result in substantially equivalent or greater access to and use of information for those with disabilities.

Compatibility with Assistive Technology

The Section 508 standards do not require the installation of specific accessibility-related software or the attachment of an assistive technology device. Section 508 requires that the EIT be compatible with such software and devices so that EIT can be accessible to and usable by individuals using assistive technology, including but not limited to screen readers, screen magnifiers, and speech recognition software.

Representation of Conformance

In order to be considered eligible for award, offerors must submit the Government Product Accessibility Template (GPAT) to verify Section 508 conformance of their products and/or services. The GPAT will be incorporated into the resulting contract.

Acceptance and Acceptance Testing

Deliverables resulting from this solicitation will be accepted based in part on satisfaction of the identified Section 508 standards' requirements for accessibility and must include a final/updated GPAT and final test results demonstrating Section 508 compliance.

Deliverables should meet applicable accessibility requirements and should not adversely affect accessibility features of existing EIT technologies. The Government reserves the right to independently test for 508 Compliance before delivery. The Contractor shall be able to demonstrate 508 Compliance upon delivery.

Automated test tools and manual techniques are used in the VA Section 508 compliance assessment. Additional information concerning tools and resources can be found at <http://www.section508.va.gov/section508/Resources.asp>.

Deliverable:

- A. Updated GPAT
- B. Final Section 508 Compliance Test Results

A5.0 Physical Security & Safety Requirements:

The Contractor and their personnel shall follow all VA policies, standard operating procedures, applicable laws and regulations while on VA property. Violations of VA regulations and policies may result in citation and disciplinary measures for persons violating the law.

1. The Contractor and their personnel shall wear visible identification at all times while they are on the premises.
2. VA does not provide parking spaces at the work site; the Contractor must obtain parking at the work site if needed. It is the responsibility of the Contractor to park in the appropriate designated parking areas. VA will not invalidate or make reimbursement for parking violations of the Contractor under any conditions.
3. Smoking is prohibited inside/outside any building other than the designated smoking areas.
4. Possession of weapons is prohibited.
5. The Contractor shall obtain all necessary licenses and/or permits required to perform the work, with the exception of software licenses that need to be procured from a Contractor or vendor in accordance with the requirements document. The Contractor shall take all reasonable precautions necessary to protect persons and property from injury or damage during the performance of this contract.

A6.0 Confidentiality and Non-Disclosure

The Contractor shall follow all VA rules and regulations regarding information security to prevent disclosure of sensitive information to unauthorized individuals or organizations.

The Contractor may have access to Protected Health Information (PHI) and Electronic Protected Health Information (EPHI) that is subject to protection under the regulations issued by the Department of Health and Human Services, as mandated by the Health Insurance Portability and Accountability Act of 1996 (HIPAA); 45 CFR Parts 160 and 164, Subparts A and E, the Standards for Privacy of Individually Identifiable Health Information (“Privacy Rule”); and 45 CFR Parts 160 and 164, Subparts A and C, the Security Standard (“Security Rule”). Pursuant to the Privacy and Security Rules, the Contractor must agree in writing to certain mandatory provisions regarding the use and disclosure of PHI and EPHI.

1. The Contractor will have access to some privileged and confidential materials of VA. These printed and electronic documents are for internal use only, are not to be copied or released without permission, and remain the sole property of VA. Some of these materials are protected by the Privacy Act of 1974 (revised by PL 93-5791) and Title 38. Unauthorized disclosure of Privacy Act or Title 38 covered materials is a criminal offense.
2. The VA Contracting Officer will be the sole authorized official to release in writing, any data, draft deliverables, final deliverables, or any other written or printed materials pertaining to this contract. The Contractor shall release no information. Any request for information relating to this contract presented to the Contractor shall be submitted to the VA Contracting Officer for response.
3. Contractor personnel recognize that in the performance of this effort, Contractor personnel may receive or have access to sensitive information, including information provided on a proprietary basis by carriers, equipment manufacturers and other private or public entities. Contractor personnel agree to safeguard such information and use the information exclusively in the performance of this contract. Contractor shall follow all VA rules and regulations regarding information security to prevent disclosure of sensitive information to unauthorized individuals or organizations as enumerated in this section and elsewhere in this Contract and its subparts and appendices.
4. Contractor shall limit access to the minimum number of personnel necessary for contract performance for all information considered sensitive or proprietary in nature. If the Contractor is uncertain of the sensitivity of any information obtained during the performance this contract, the Contractor has a responsibility to ask the VA Contracting Officer.
5. Contractor shall train all of their employees involved in the performance of this contract on their roles and responsibilities for proper handling and nondisclosure of sensitive VA or proprietary information. Contractor personnel shall not engage in any other action, venture or employment wherein sensitive information shall be used for the profit of any party other than those furnishing the information. The sensitive information transferred, generated, transmitted, or stored herein is for VA benefit and ownership alone.
6. Contractor shall maintain physical security at all facilities housing the activities performed under this contract, including any Contractor facilities according to VA-approved guidelines and directives. The Contractor shall ensure that security procedures are defined and enforced to ensure all personnel who are provided access to patient data must comply with published procedures to protect the privacy and confidentiality of such information as required by VA.

7. Contractor must adhere to the following:
 - a. The use of “thumb drives” or any other medium for transport of information is expressly prohibited.
 - b. Controlled access to system and security software and documentation.
 - c. Recording, monitoring, and control of passwords and privileges.
 - d. All terminated personnel are denied physical and electronic access to all data, program listings, data processing equipment and systems.
 - e. VA, as well as any Contractor (or Subcontractor) systems used to support development, provide the capability to cancel immediately all access privileges and authorizations upon employee termination.
 - f. Contractor PM and VA PM are informed within twenty-four (24) hours of any employee termination.
 - g. Acquisition sensitive information shall be marked "Acquisition Sensitive" and shall be handled as "For Official Use Only (FOUO)".
 - h. Contractor does not require access to classified data.
8. Regulatory standard of conduct governs all personnel directly and indirectly involved in procurements. All personnel engaged in procurement and related activities shall conduct business in a manner above reproach and, except as authorized by statute or regulation, with complete impartiality and with preferential treatment for none. The general rule is to strictly avoid any conflict of interest or even the appearance of a conflict of interest in VA/Contractor relationships.
9. VA Form 0752 shall be completed by all Contractor employees working on this contract, and shall be provided to the CO before any work is performed. In the case that Contractor personnel are replaced in the future, their replacements shall complete VA Form 0752 prior to beginning work.

A7.0 INFORMATION TECHNOLOGY USING ENERGY-EFFICIENT PRODUCTS

The Contractor shall comply with Sections 524 and Sections 525 of the Energy Independence and Security Act of 2007; Section 104 of the Energy Policy Act of 2005; Executive Order 13514, “Federal Leadership in Environmental, Energy, and Economic Performance,” dated October 5, 2009; Executive Order 13423, “Strengthening Federal Environmental, Energy, and Transportation Management,” dated January 24, 2007; Executive Order 13221, “Energy-Efficient Standby Power Devices,” dated August 2, 2001; and the Federal Acquisition Regulation (FAR) to provide ENERGY STAR®, FEMP designated, low standby power, and Electronic Product Environmental Assessment Tool (EPEAT) registered products in providing information technology products and/or services.

The Contractor shall ensure that information technology products are procured and/or services are performed with products that meet and/or exceed ENERGY STAR, FEMP designated, low standby power, and EPEAT guidelines. The Contractor shall provide/use products that earn the ENERGY STAR label and meet the ENERGY STAR specifications for energy efficiency. Specifically, the Contractor shall:

1. Provide/use ENERGY STAR products, as specified at www.energystar.gov/products (contains complete product specifications and updated lists of qualifying products).
2. Provide/use the purchasing specifications listed for FEMP designated products at www.femp.energy.gov/procurement. The Contractor shall use the low standby power products specified at <http://energy.gov/eere/femp/low-standby-power-products>.
3. Provide/use EPEAT registered products as specified at www.epeat.net. At a minimum, the Contractor shall acquire EPEAT® Bronze registered products. EPEAT registered products are required to meet the technical specifications of ENERGY STAR, but are not automatically on the ENERGY STAR qualified product lists. The Contractor shall ensure that applicable products are on both the EPEAT Registry and ENERGY STAR Qualified Product Lists. The acquisition of Silver or Gold EPEAT registered products is encouraged over Bronze EPEAT registered products.
4. The Contractor shall use these products to the maximum extent possible without jeopardizing the intended end use or detracting from the overall quality delivered to the end user.

The following is a list of information technology products for which ENERGY STAR, FEMP designated, low standby power, and EPEAT registered products are available:

1. Computer Desktops, Laptops, Notebooks, Displays, Monitors, Integrated Desktop Computers, Workstation Desktops, Thin Clients, Disk Drives
2. Imaging Equipment (Printers Copiers, Multi-Function Devices, Scanners, Fax Machines, Digital Duplicators, Mailing Machines)
3. Televisions, Multimedia Projectors

This list is continually evolving, and as a result is not all-inclusive.

ADDENDUM B – ADDITIONAL VA REQUIREMENTS FOR OPTIONAL TASK C: SOFTWARE ASSURANCE STANDARD OPERATING PROCEDURE

B1.0 TEST AND INDEPENDENT VERIFICATION AND VALIDATION

Test and Evaluation is the process by which a system or components are compared against requirements and specifications through testing. The results are evaluated to assess progress of design, performance, and supportability. Developmental test and evaluation is an engineering process used to reduce risk throughout the acquisition cycle. Operational test and evaluation is the actual or simulated employment, by typical users, of a system under realistic operational conditions.

Test and Independent Verification and Validation (T&IVV) should comprise a series of progressive system verification/qualification processes conducted sequentially within the system developer's laboratory test-bed environment, the Government's test-bed environment, and finally under full field conditions within an operational environment. Each test determines if the system, as developed, is sufficiently mature to continue to the next level of testing or deployed for use.

The T&IVV activities, for each Increment or product as applicable, should include vendor testing and risk-based independent Government testing in one or more Development Test Environments (DTE), then Operational Test and Evaluation (OT&E) at selected IOC sites within the components.

B1.1 Software Code Quality Checking

High software quality helps to minimize sustainment costs, reduce run-time errors, and increase end-user satisfaction. Each software component being developed should be assessed relative to the overarching project architecture, and functional and technical requirements allocation to ensure the component design aligns with the overarching design. Additionally, the code should be analyzed against all federal/VA security standards, requirements, policies and industry best practices.

To support high-quality software products in the project environment, the government requires regular scanning of software code for latent software defects and security vulnerabilities/weaknesses, through a process known as Software Code Quality Checking (SCQC). The purpose of SCQC is to ensure delivery of secure, quality software code, clean code (e.g. free of fragments and dead code), benchmarked against recognized standards. The process focuses on the technical correctness of the code as well as freedom from security vulnerabilities. Software reliability and maintainability, along with a number of other factors, are measured throughout the entire system development life cycle (SDLC) through the use of SCQC tools.

The contractor shall be prepared to conduct SCQC throughout the Agile development, testing and sustainment phases of the project where appropriate and as directed by the government. The government defines SCQC as a scan of the source code, executables, and related artifacts, for example, documentation, to ensure that the system under development can continue with development, demonstration, and test, and can meet the stated performance, maintainability, and usability requirements within cost (program budget), schedule (program schedule), risk, and other system constraints. For any COTS products, the government requires evidence of having conducted a static code analysis, static security analysis and architectural analysis. The evidence should identify the processes and tools used, to include the use of external independent evaluators, together with the results of the scans. For legacy products, the government will provide to the contractor an SCQC “baseline” of “inherited” technical defects and security vulnerabilities along with the estimated level of effort required to correct the code. Contractors shall ensure no new technical flaws or security vulnerabilities are introduced during the correction or enhancement of the code.

B1.2 Software Reviews & Scans

SCQC encompasses the use of static code analysis, static security analysis, dynamic code analysis, dynamic security analysis and architecture analysis and is usually performed using automated tools.

Static analysis is the analysis of computer software and related documentation that is performed without actually executing programs built from the software.

Static security analysis is the analysis of computer software that is performed without actually executing programs to detect and report weaknesses that can lead to security vulnerabilities.

Dynamic program analysis is the analysis of computer software and related documentation that is performed by executing programs built from that software on a real or virtual processor.

Dynamic security analysis is the analysis of computer software that is performed by executing programs to detect and report weaknesses that can lead to security vulnerabilities.

Architectural analysis may be supported by automated tools but are usually conducted by manual walk-through of documentation and visual inspection of the code.

All software developers shall be prepared to perform reviews and scans listed above to prevent/correct or mitigate defects and vulnerabilities to the greatest extent possible, and when directed by the government COR.

For development processes, the contractors shall conduct static code and static security scans whenever code is altered. Dynamic code, dynamic security and architectural analyses shall be conducted at the end of each sprint or more frequently when the contractor and the government determine it makes more sense to do so. Contractor shall report SCQC results, weekly, using a defect removal efficiency matrix.

The Government may conduct its own independent informal SCQC inspection of the system under development at least weekly during the development of the system.

Contractors will make the following artifacts available:

Source code and all design time libraries and licenses (static analysis)

Executable code and libraries (dynamic analysis)

Application configuration artifacts

System Design Documents (SDD)

System Sub-System Specification (SSS)

System Sub-System Design Document (SSDD)

System Security Authorization Agreement (SSAA)

Interface Control Document (ICD)

Database Design Document (DBDD)

Test cases (dynamic analysis)

Other artifacts proposed by the contractor

Assessments of the contractor's code shall be reported in both the number and types of code quality and security vulnerabilities found as well as the technical debt or level of effort required to correct the defects.

B1.2.1 Code Reviews

As a standard practice Contractors and the Government conduct formal code reviews together at least once each calendar month while code is being developed, tested and updated. These code reviews shall include both technical controls as well as information assurance controls.

B1.2.2 SCQC Tools

Contractors shall be free to use its own tools and processes to meet the government's standard for technically defect-free code that also contains minimal security vulnerabilities. However, software code quality shall be assessed using the following tools or comparable tools, approved by the COR.

SONAR: SONAR is an open source platform used to measure and manage code quality. It covers the 7 axes of code quality: (1) architecture and design, (2) duplications, (3) unit tests, (4) complexity, (5) potential bugs, (6) coding rules and (7) comments. Multiple languages are supported through plug-ins. SONAR reports results based on the Software Improvement Group (SIG) Maintainability Model, The government uses SONAR to calculate the "technical debt" or cost to fix all defects reported by the tool. Technical debt is calculated based on the severity of the reported defects. Severities are Blocker, Critical, Major, Minor and Administrative. The contractor shall provide the government code that contains NO Blocker or Critical defects. The government shall review the Major, Minor and Administrative defects and identify those defects that the contractor shall correct prior to acceptance of the code. SONAR incorporates a number of open source tools such as FxCop and FindBugs to identify defects. Using FindBugs to identify and correct defects when developing Java code, for example, should the number of defects and technical debt discovered by SONAR.

WebLayers: WebLayers is a licensed tool that provides static analysis of Java code. It checks artifacts included in the build for a piece of software. WebLayers runs in a JBoss server, and has a database which stores the results of scans. This document includes the queries used to create the reports from querying the database. Pending completion of these activities, the government should also scan the contractor's code using webLayers and advise the contractor of the findings and potential corrective actions.

JArchitect: Visual JArchitect (JArchitect) is a licensed static analysis tool that is used for scanning Java-based applications. JArchitect utilizes a Graphical User Interface (GUI) and supports a large number of code metrics, allows for visualization of dependencies using directed graphs, and features a dependency matrix in order to provide troubleshooting assistance. The government may use JArchitect to identify defects such as circular dependencies, poor coding practices and the lack of best practices such as the need to refactor code. Contractor shall deliver code that contains no circular dependencies, no components with a cyclomatic complexity greater than 78, and no more than 5% of the code requiring refactoring. The government should then identify other defect types reported by JArchitect and develop a corrective action plan in conjunction with the contractor. Upon acceptance of the corrective action plan, Contractor shall fix the agreed-to types defects and ensure that no new defects within the same defect type are introduced.

NDepend: Visual NDepend (NDepend) is a licensed static analysis tool that is used scanning .NET-based applications. It is equivalent to JArchitect and the same criteria for JArchitect should apply to the contractor and the government.

Hewlett Packard (HP) Fortify: HP Fortify is a code validation program that scans source code for known security vulnerabilities. The government will provide Fortify licenses unless specifically addressed otherwise. Contractors shall use Fortify to scan code and identify vulnerabilities. Vulnerabilities can be reported to VA using Common Weakness Enumeration (CWE) Identifiers using a Critical, High, Medium and Low rating.

CAST Management Studio: The CAST Management Studio is a licensed tool that allows scanning of applications to check for various metrics including security violations and quality of code. For any development in the Government's Development and Test Center (DTC), the Government intends to issue licenses to Contractors to run CAST scans at the end of each sprint or sooner if it best supports the

Contractor's development activities. CAST aggregates defects using a set of "health" factors to categorize findings. These health factors include transferability, changeability, robustness, performance, security, programming practices, architectural design and documentation. The factors are scored from 1 (unacceptable) to 4 (exceptional). The Contractor shall NOT deliver code to the Government that has a health factor below 2. CAST also identifies defects by weight using the same 1 to 4 scale. In addition, selected defects are identified for criticality. The Contractor shall correct all critical defects prior to final delivery of the code to the Government.

B1.3 Software Vulnerability

Contractors shall deliver code with zero high and zero critical vulnerabilities identified by Fortify scans or other SCQC tools. Contractors shall provide risk assessment reports and a business case to address any medium or low level vulnerability.

B1.4 Supply Chain Assurance

Contractors shall implement a supply chain assurance process in accordance with NISTIR 7622, October 2012. The minimum criteria that the contractor shall meet is to assure through tools, techniques and processes that all third-party or open source software used in the SDLC by the contractor meets the government's SCQC criteria.

External References:

Software Assurance Pocket Guide Series: Acquisition for Outsourcing, Vol. 1 v1.1 July 31, 2009.

Software Assurance Pocket Guide Series: Due Diligence, Vol. 2 V1.2.

Both found at: https://buildsecurityin.us-cert.gov/swa/pocket_guide_series.html

B1.5 Testing

Contractors shall utilize Agile testing, a continuous process which takes place hand-in-hand with development and project management. As part of the Agile team, it is expected that the Contractor will work closely with Government independent testing organizations and Government Independent Verification and Validation (IV&V) agents by providing metrics and eliciting early feedback from functional proponents, users, and other key stakeholders. Contractors shall provide test resources to participate in daily scrum meetings Sprint planning.

As a standard practice, before acceptance of deliverable(s) from the Contractor, the intent of the Government is to advise, witness, and, at times, to participate in Contractor testing as to minimize risk of rework and limiting the amount of rework needed after deliverable(s) are received by the Government until it is evaluated as ready for full deployment.

B1.5.1 Software Development Testing

Contractor shall develop a Master Test Plan (MTP) which addresses the Contractor's recommended strategy for testing the Capability to include, but not limited to: capability planned for development sprints within the Increment, integration test Sprints, performance test Sprints, Information Assurance (IA), scalability, software assurance testing, and interoperability testing. Contractors shall provide demonstrations of functionality during development/integration sprints when a component of the

Capability is ready for review by the scrum team and or validation by the Capability Owners (Functional user) that it meets acceptance criteria.

Contractors shall develop a Test Plan for each planned Release of software to the Government to explain how the Contractor shall demonstrate to the Government that the deliverable(s) satisfy the Government’s requirements. Test Plans shall address the following: Test Scenarios mapped to User Stories, Test Procedures, automated test scripts, and test data to be used in conducting tests. These items shall be provided to the Government for their potential re-use in Government-led testing Sprints. Test Plans shall be provided within ten working days after approval to commence development and or integration.

Contractors shall develop Test Scenarios and Test Procedures that demonstrates business processes supported by the system and address full functionality for each user role. Test Scenarios should map to the integrated Business Requirements Document (iBRD), Requirements Traceability Matrix, and approved system design. Test Procedures should provide testability coverage for all new or changed interfaces and be sequenced logically and take into account dependencies, which should address functional requirements, database tables to be updated and checked, and expected output results.

In cases where the processing of “live” data files is necessary, Contractors shall coordinate with the Government Capability managers for receipt of such files from the interface partner. No files containing Classified or Privacy Act Information shall be processed in the Contractor’s test environment. When re-validating software corrections resulting from previous test failures due to data issues, the Contractor must use the original associated test file(s)/data that caused the problem as well as other data both conforming and not conforming to the approved format and retest the application as required. Any problem that cannot be resolved without impacting the schedule must communicated to the Project Manager and COR immediately for approval to fix or to move to the project backlog.

At the end of a development sprint or series of sprint(s) that delivers sufficient functionality of the Capability for deployment/release the Contractor shall conduct a Test Readiness Review (TRR) for the Government in order to present test findings and to turn the solution over to the project’s Configuration Manager for subsequent Government testing. The Capability must meet requirements of a Test Readiness Review (TRR) which requires removal of severity 1 & 2, and clusters of 3 or 4 defects.

Table 1 describes the error severity levels and defect repair priorities.

Defect Severity Levels and Definitions
Severity Level 1 - Critical
<i>The defect results in the failure of the complete software system, of a subsystem, or of a software unit (program or module) within the system with no suitable workaround.</i>
Any defect that compromises patient safety or system security, (examples of system security defects include breach of confidentiality requirements of the Privacy Act, HIPAA or Federal Tax Information guidelines).
Loss of system functionality critical to user operations with no suitable workaround (in other words, there is no way to achieve the expected results using the application).
System crash or hang that prevents further testing or operation of the complete application or a section of

the application.
Any defect that causes corruption of data from a result of the system (as opposed to user error).
Any defect in which inappropriate transmissions are consistently generated or appropriate transmissions of HL7 messages fail to be generated.
Loss of functionality resulting in erroneous eligibility/enrollment determinations or communications not being sent.
Loss of functionality resulting in erroneous eligibility/enrollment determinations or communications not being sent.
Severity Level 2 - High
<i>The defect results in the failure of the complete software system, of a subsystem, or of a software unit (program or module) within the system. There is no way to make the failed component(s) function. However, there are acceptable processing alternatives which will yield the desired result.</i>
A major defect in the functionality which does not result in corruption of data.
A major defect in the functionality resulting in a failure of all or part of the application.
The expected results can temporarily be achieved by alternate means. The customer indicates the work around is acceptable for the short term.
Any defect resulting in non-conformance with to Section 508 standards.
Any defect that results in inaccurate or missing requirements.
Any defect that results in invalid authentication or authentication of an invalid end user.
Severity Level 3 - Major
<i>The defect does not result in a failure, but causes the system to produce incorrect, incomplete, or inconsistent results, or the defect impairs the systems usability.</i>
Minor functionality is not working as intended and a workaround exists but is not suitable for long term use.
The inability of a valid user to access the system consistent with granted privileges.
Typographical or grammatical errors in the application, including installation guides, user guides, training manuals, design documents, etc.
Any defect producing cryptic, incorrect or inappropriate error messages.
Any defect that results from the use of non-standard data terminology in the application or documentation, as defined by the Department of Veterans Affairs.
Cosmetic issues that are important to the integrity of the product, but do not result in data entry and or

data quality problems.
Severity Level 4 - Minor/Exception
<i>The defect does not cause a failure, does not impair usability, and the desired processing results are easily obtained by working around the defect.</i>
Minor loss of or defect in the functionality where a long term use exists.
Low level cosmetic issues.

After Contractor testing the Government will typically conduct a "smoke" test of the application after successful install. Smoke Testing will include the following checks of the capability delivered in the Release: (1) Ability to Create, Read, Update, Delete data, (2) Checks on Interfaces, & (3) Checks on Roles and Privileges

For each Release the Contractor shall document the results of their testing in a Test Report. The report shall contain a detailed summary of test events, test findings, project backlog status, action items, and recommendations. All tool(s) and/or emulator(s) developed by the Contractor specifically to test interfaces should always be delivered to the Government with the software for use in Government testing.

B1.5.2 Test Support

After successful completion of the TRR, the Contractor shall provide technical support for subsequent Government testing. Assistance shall be in the form of providing real-time availability of engineering staff to support trouble-shooting issues, explaining nuances of system design, assisting in the set-up of interfaces or emulation tools, performing quick fixes during a test, participating in meetings, performing detailed analysis and fault isolation. Contractors shall also collaborate with the Government by allowing the Government testers to observe and report progress of the development/integration activities. This Quality Assurance process shall include analysis on, but not limited to:

Installation of the software in the development/integration environment

Contractor Tools (IDEs, Build tools, Unit test tools, SOA messaging toolset) to ensure quality code

Usage of Test Tools for automation by the Contractor related to Progression, Regression, and Performance Tests

Review of Contractor Test scripts for positive and negative testing

Execution of system specific requested scripts

Reporting for Test results and Defect Metrics

Software deployment procedures

Compliance with Measures of Effectiveness (MOE) and Measures of Performance (MOP) expected by Independent Tester

All products must undergo field testing, including independent Operational Test and Evaluation before full deployment across the enterprise. Contractors shall provide the artifacts listed in Table 2 to support fielding of a product at the initial test site.

ID	Element	Description	Artifact
1	System/Product Software Build	All components of SQA certified build. For Operational Readiness Review, the submitted build is the final build targeted for IOC production deployment.	Software Package
2	Technical Manual	The Technical Manual is a required documentation component that provides sufficient technical information about the product operations and maintenance. If this product is an enhancement to an existing product, the current Technical Manual will most likely be updated.	Technical Manual or Systems Management Guide
3	Product Solution Architecture	To Include all logical/physical and/or functional architecture specifications and diagrams.	(1) Product Architecture Document (PAD), (2) System Design Document (SDD), (3) Data Definition (4) Functional Flow Diagram, (5) Hardware and Topological Architecture Diagram, (6) Nodes Connectivity Diagram
4	Interface Architecture and Control Documents	Aliases: <i>Interface Control Document</i> . Who is receiving or pushing data from multiple sources and how they get that data (HL7, direct read, etc.)	Interface Control Document (ICD)
5	Database Application Mapping	Database mappings include mapping of field/column from the user interface (UI) to the database source and destination. (If applicable)	User Interface to Database Application Mapping
6	Database Support Processes / Procedures	Information on any programs, files, database exports, migration processes, and techniques to use for the creation, population and support of the database. This includes dependency application(s)/service(s) and/or their components.	Production Operations Manual Systems Management Guide

7	Technical Alignment	Describes how the projects technical approach is aligned with the project architecture and design framework. Includes: A description of the solution architecture, A preliminary description of the solution design elements. May be a component of the system design document.	System Design Document (SDD) Technical Reference Model
8	Installation Guide	Aliases: <i>Installation Manual. Installation Instructions</i> ; Document details how to stage hardware and software environments for product/system along with all dependencies and component products.	Installation Guide
9	Back Out/Rollback Procedures/Plan	Back out procedures/plan. Recovery to a known state after a failed change or release. Procedures to safely 'back out' of a product install and/or 'rollback' to a stable state (previous version).	Installation Guide
10	User Guide	Aliases: <i>Functional Manuals /End User Manual/ Guide</i> . Details (in the form of websites, manuals, instructions, guides) on how to use the system from the functional end-user perspective.	User Guide
11	Version Description Document (VDD)	The version description document (VDD) is a required artifact of the configuration management process for all deliveries.	Version Description Document (VDD)

B1.5.3 Test Metrics

This is the recommended minimum metrics for validating and forecasting workload, establishing the effectiveness of Contractor's testing process and ensuring compliance of the product.

Test Report showing the number of defects found during the Contractor's testing and the severity and priority of those defects as defined by the government.

Number of defects removed or repaired by the Contractor prior to offering to the government and the number remaining by severity.

A matrix identifying every requirement, the test procedure that shows where and how it was tested, the result of the test for that particular requirement, and any subsequent rework and regression testing involving the specific requirement.

Test Report documenting the hardware configuration of each test event.

Number of hours by resource category utilized for various test events.

Defect categories shall be prepared and presented to the government for approval.

Defect categories shall show where the root cause of the defect originated (i.e., requirement, coding, integration, test procedure or execution).

Contractor shall support Government tracking of software reliability by collecting and providing reliability data as a function of sprint test time by providing the following:

All instances of Priority levels of 1, 2, or Clusters of 3s or 4s defects (and associated defect number) found in a Test Sprint, with the goal of no more than 10 percent of any defect discovered in the sprint remain open at the end.

System availability measured by the percentage of time that the system performed as expected within the required timelines and accuracy of data measured.

B1.5.4 Operational Readiness Review Support

Contractor shall provide the following artifacts to support the Government’s Operational Readiness Review (ORR) prior to fielding:

ID	Element	Description	Artifact
1	Master Test Plan	Overall testing strategy from development to implementation. (Includes, at a minimum, the following: functionality, integration, performance, operational readiness review, and initial operating capabilities (field) testing. Includes test cases, test scripts, listing of specific key procedures, and installation verification tests across the entire system solution in order to ensure all necessary system components are secure and operational.	Master Test Plan (MTP) & Test Scripts/Cases
2	All Prior Contractor Testing Outcomes / Reports	These test results should show a complete system end-to-end regression test on the final build (targeted for production deployment) to be submitted for testing. They should include, but not be limited to, functional, performance, system, accessibility, disaster recovery, multi-divisional, and integration/interface test results. The list of existing open defects for the project should also be included. At a minimum, the defect list should include defect headline and severity.	(1) System Test Evaluation Summary, (2) System Test Execution Log, (3) System Test Defect Log, & (4) Performance Test Results

EXHIBIT 1: JLV ON VISTA.JS ENHANCEMENTS**(Primary list of enhancements for Optional Task C)**

Requirement	VW	JLV	eHMP	Priority
Provide the ability to display C32 Health Summaries	Exists	Exists	Exists	Met
Provide the ability to incorporate data content from C32 Health Summaries in widget views e.g. allergies, medications, problems, etc (referred to as aggregate views in VistaWeb)	Exists	Needed	Needed	High
Provide the ability to parse data to be consumable by the GUIs to ensure data can be displayed in domain-specific widgets	Exists	Needed	Needed	High
Provide the ability to request and display C62 formatted clinical notes in appropriate widgets, e.g. surgical note, discharge summary, progress note, etc.	Exists	Needed	Needed	High
Request and display C-CDA Continuity of Care Document from Non-VA partners	Planned	Needed	Needed	High
Display C-CDA CCD using designated VA C-CDA Stylesheet	Planned	Needed	Needed	Med
Display C-CDA Structured Clinical Notes using designated VA stylesheet	Planned	Needed	Needed	High
Query and display unstructured C-CDA clinical notes	Planned	Needed	Needed	High
Display unstructured C-CDA clinical notes using designated VA stylesheet	Planned	Needed	Needed	Med
Provide the ability to initiate a Patient Discovery message at the time of Patient Selection (or pre-fetch and cache)	Planned	Needed	Needed	High
<i>Initiate PD no more than once per 24 hours</i>	Planned	Needed	Needed	High
<i>Do not initiate if Exchange pre-fetched data is available</i>	Planned	Needed	Needed	High
<i>Provide the ability to provide a status of the PD which can take up to 7 mins</i>	Planned	Needed	Needed	Med
Provide the ability to display all known partner correlations for the patient	Exists	Needed	Needed	High
Provide the ability to initiate a request for partner data when the "purpose of use" is Emergency	Planned	Needed	Needed	Med
Provide the ability to initiate a request for partner data when the "purpose of use" is Healthcare Operations	Needed	Needed	Needed	Med
Provide the ability to process query responses as they are received by VLER Health Exchange Adapter, so the user doesn't have to wait for the receipt of all responses before seeing any results (applies to for real-time "non-cached" data).	Not requested for VW	Needed	Needed	Med
New eHealth Exchange Data Available Indicator: Provide a way for the clinician-GUI to inform the user that new data is available for a particular patient so the clinician doesn't have to reopen a Health Summary they've already reviewed.	Not requested for VW	Needed	Needed	Med
Provide the ability to display data received via external partners and persisted to Vista	Not requested for VW	Needed	Needed	Med

B.6 PRICE SCHEDULE

Note: Days used in the table below refer to calendar days unless otherwise stated. Deliverables with due dates falling on a weekend or holiday shall be submitted the following Government work day after the weekend or holiday

CLIN	TASK	QTY	UNIT OF ISSUE	UNIT PRICE	TOTAL PRICE
0001	<p>PROJECT MANAGEMENT</p> <p>The Contractor shall provide Project Management in accordance with PWS Paragraph 5.1 and its sub-paragraphs. This CLIN includes all travel, labor, supplies, and reports required for the successful completion of the services detailed in Paragraph 5.1 and its sub-paragraphs.</p> <p>The price of this CLIN shall be amortized throughout the priced line items.</p> <p>The PoP is 12 months from date of contract award.</p>	12	MO	\$NSP	\$NSP
0001AA	<p>Contractor Project Management Plan</p> <p>The Contractor shall provide a Contractor Project Management Plan (CPMP) IAW PWS Paragraph 5.1.1.</p> <p>Due 30 days after contract (DAC) award and updated monthly thereafter.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p> <p>FOB POINT: DESTINATION Inspection/Acceptance: Destination</p>	1	EA	\$NSP	\$NSP
0001AB	<p>Technical KickOff Meeting Presentation</p> <p>The Contractor shall provide a Technical Kickoff Meeting Presentation IAW PWS Paragraph 5.1.2.</p> <p>Due 10 days after contract award</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p> <p>FOB POINT: DESTINATION Inspection/Acceptance: Destination</p>				
0001AC	Executive Level Quarterly Project Reports	4	EA	\$NSP	\$NSP

	<p>The Contractor shall provide the designated VA PM and COR with Executive Level Quarterly Progress Reports (QPR) in electronic form in Microsoft Word and Project formats IAW PWS Paragraph 5.1.3.</p> <p>Due within 120 DA C award and updated quarterly thereafter.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p> <p>FOB POINT: DESTINATION Inspection/Acceptance: Destination</p>				
0001AD	<p>Monthly Progress Report</p> <p>The Contractor shall provide the designated VA PM and COR with Monthly Progress Report in electronic form in Microsoft Word and Project formats IAW PWS Paragraph 5.1.3.</p> <p>Due within 30 days after option award and updated monthly thereafter.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p> <p>FOB POINT: DESTINATION Inspection/Acceptance: Destination</p>	12	MO	\$NSP	\$NSP
0001AE	<p>Monthly Product Development (PD) Status Report</p> <p>The Contractor shall deliver Bi-Weekly PD Status Reports to the VPS PM and COR due by the end of each second week IAW PWS Paragraph 5.1.4.</p> <p>Due within 30 DAC award and updated monthly thereafter.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p> <p>FOB POINT: DESTINATION Inspection/Acceptance: Destination</p>	12	MO	\$NSP	\$NSP
0001AF	<p>VA Privacy Information Security Training Certificates</p> <p>The Contractor shall submit status of VA Privacy and Information Security Awareness training for all individuals engaged on the task IAW PWS Paragraph 5.1.5.</p>	1	LO	\$NSP	\$NSP

	<p>Due within seven DAC (and/or Seven Days after on-boarding of new employee) and annually as required throughout the PoP for all Contractor employees</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p> <p>FOB POINT: DESTINATION Inspection/Acceptance: Destination</p>				
0001AG	<p>Work Breakdown Structure (WBS) and/or Agile equivalent and Updates</p> <p>The Contractor shall create, maintain, and analyze a WBS and/or Agile equivalent IAW PWS Paragraph 5.1.6</p> <p>Initial schedules and reports are due within 30 DAC award and updated weekly as necessary throughout PoP. (Project Specific)</p> <p>The price of this SLIN shall be amortized throughout the priced line items. The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0001AH	<p>Integrated Master Schedule (IMS) and Updates</p> <p>The Contractor shall create, maintain, and analyze an IMS and Updates IAW PWS Paragraph 5.1.6</p> <p>Initial schedules and reports are due within 30 DAC award and updated weekly as necessary throughout the PoP.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0001AJ	<p>Scheduled Reports or Agile</p> <p>The Contractor shall create, maintain, and analyze a Schedule Reports or/or Agile equivalent IAW PWS Paragraph 5.1.6</p> <p>Due within 30 DAC award and at the end of each sprint throughout the PoP.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0001AK	<p>Critical Path Reports and Updates</p> <p>The Contractor shall create, maintain, and</p>	1	LO	\$NSP	\$NSP

	<p>analyze Critical Path Reports and Updates IAW PWS Paragraph 5.1.6</p> <p>Due within 30 DAC award and updated weekly as necessary throughout the PoP.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>				
0001AL	<p>What-If Analyses and Updates</p> <p>The Contractor shall create, maintain, and analyze What-If Analyses and Updates IAW PWS Paragraph 5.1.6</p> <p>Due within 30 DAC award and at the end of each sprint thereafter.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0001AM	<p>Risk Management Initial Content and Updates</p> <p>The Contractor shall provide content to the VPS PMO to populate a project Risk Management Plan IAW PWS Paragraph 5.1.7</p> <p>Draft package is due within 60 DAC award. Updates to each document and artifact are due within monthly throughout the PoP.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0001AN	<p>Project Risk Registry and Updates</p> <p>The Contractor shall create, update, and manage risks/issues and report them to the VPS Project Risk Registry IAW PWS Paragraph 5.1.7.</p> <p>Draft package is due within 60 DAC award. Updates due within monthly throughout the PoP.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0001AP	<p>Action Item/Issue Log and Updates</p> <p>The Contractor shall create, update, and manage risks/issues and report them to the Action Item/Issue log IAW PWS Paragraph 5.1.7.</p> <p>Draft package is due within 60 DAC award. Updates due within monthly throughout the PoP.</p>	1	LO	\$NSP	\$NSP

	The price of this SLIN shall be amortized throughout the priced line items.				
0001AQ	<p>Updated Government Product Accessibility Template (GPAT)</p> <p>Contractor shall provide GPAT IAW Addendum A Section A.40</p> <p>Due within at MS1 IOC</p> <p>The price of this CLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0001AR	<p>Final Section 508 Compliance Test Results</p> <p>Contractor shall provide Final Section 508 Compliance Test Results IAW Addendum A Section A.40</p> <p>Due within at MS1 IOC</p> <p>The price of this CLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0001AS	<p>Contractor Staff Roster</p> <p>Contractor shall provide staff roster IAW PWS Paragraph 6.2. and its subparagraphs</p> <p>Due within at MS1 IOC</p> <p>The price of this CLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002	<p>LIFECYCLE SUPPORT TASKS</p> <p>The Contractor shall configure, develop, enhance, maintain, test, and deploy Access Services capabilities, including COTS products, using SDLC process and industry life cycle best practices IAW PWS Paragraph 5.2 and its subparagraphs. This CLIN includes all travel, labor, supplies, and reports required for the successful completion of the services detailed in Paragraph 5.2 and its sub-paragraphs.</p> <p>The price of this CLIN shall be amortized throughout the priced line items.</p> <p>The PoP is 12 months from DAC award.</p>	12	MO	\$NSP	\$NSP
0002AA	<p>LIFECYCLE SUPPORT TASKS TECHNICAL ANALYSIS AND REFINEMENT - Updated Requirements Specification Document (RSD)</p> <p>The Contractor shall provide, maintain, and</p>	1	LO	\$NSP	\$NSP

	<p>update an RSD IAW PWS Paragraph 5.2.1.</p> <p>Draft is due within 60 DAC award. Final package is due within five days after receipt of Government comments.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>				
0002AB	<p>LIFECYCLE SUPPORT TASKS TECHNICAL ANALYSIS AND REFINEMENT - Requirements Traceability Matrix (RTM)</p> <p>The Contractor shall create, maintain, and update the RTM IAW PWS Paragraph 5.2.1</p> <p>Draft is due within 60 DAC award. Final package is due within five days after receipt of Government comments.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AC	<p>LIFECYCLE SUPPORT TASKS TECHNICAL ANALYSIS AND REFINEMENT - Use Cases/User Stories</p> <p>The Contractor shall create, maintain, and update use cases/ user stories IAW PWS Paragraph 5.2.1.</p> <p>Due within 60 DAC award</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AD	<p>LIFECYCLE SUPPORT TASKS TECHNICAL ANALYSIS AND REFINEMENT -Interactive Wireframes</p> <p>The Contractor shall develop interactive wireframes IAW PWS Paragraph 5.2.1.</p> <p>Due within two weeks after Use Cases.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AE	<p>LIFECYCLE SUPPORT TASKS TECHNICAL ANALYSIS AND REFINEMENT - Roadmaps</p> <p>The Contractor shall produce a roadmap describing the proposed implementation of VistA.js functionality over time IAW PWS Paragraph 5.2.1</p>	1	LO	\$NSP	\$NSP

	The price of this SLIN shall be amortized throughout the priced line items.				
0002AF	<p>LIFECYCLE SUPPORT TASKS SOLUTION DESIGN - System Design Document (SDD)</p> <p>The Contractor shall create, maintain, and update a SDD IAW PWS Paragraph 5.2.2.</p> <p>Due within 90 DAC award</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AG	<p>LIFECYCLE SUPPORT TASKS SOLUTION DESIGN -Server Planning Sheets</p> <p>The Contractor shall update the Server Planning sheets IAW PWS Paragraph 5.2.2</p> <p>Due within 120 DAC award</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AH	<p>LIFECYCLE SUPPORT TASKS SOLUTION DESIGN -Capacity Analysis Report</p> <p>The Contractor shall create, maintain, and update a capacity analysis report IAW PWS Paragraph 5.2.2.</p> <p>Due within 120 DAC award</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AJ	<p>LIFECYCLE SUPPORT TASKS SOLUTION DESIGN -Application Recovery Guide</p> <p>The Contractor shall create, maintain, and update an application recovery guide IAW PWS Paragraph 5.2.2.</p> <p>Due within 240 DAC award</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AK	<p>LIFECYCLE SUPPORT TASKS SOLUTION CONSTRUCTION - Build Package</p> <p>The Contractor shall deliver build packages IAW PWS Paragraph 5.2.3</p>	1	LO	\$NSP	\$NSP

	<p>Shall be Due within as defined in IMS for each Increment and updated as necessary. (Project Specific)</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>				
0002AL	<p>LIFECYCLE SUPPORT TASKS SOLUTION CONSTRUCTION - Wireframes</p> <p>The Contractor shall conduct up to 3 demonstrations to present wireframes/prototypes IAW PWS Paragraph 5.2.3</p> <p>Shall be Due within two weeks after Uses cases</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AM	<p>LIFECYCLE SUPPORT TASKS SOLUTION CONSTRUCTION - Site Maps</p> <p>The Contractor shall provide site maps IAW PWS Paragraph 5.2.3.</p> <p>Due within four months after contract award</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AN	<p>LIFECYCLE SUPPORT TASKS SOLUTION CONSTRUCTION - Release Notes</p> <p>The Contractor shall create and maintain increment release notes IAW PWS Paragraph 5.2.3.</p> <p>Draft package is due within 20 days before test and concurrent with build delivery. Final package is due within Five days after receipt of Government comments.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AP	<p>LIFECYCLE SUPPORT TASKS SOLUTION CONSTRUCTION - Developer Test Plan</p> <p>The Contractor shall create, maintain, and update a developer test plan IAW PWS Paragraph 5.2.3.</p> <p>Due within as defined in IMS for each Increment and updated as necessary.</p>	1	LO	\$NSP	\$NSP

	The price of this SLIN shall be amortized throughout the priced line items.				
0002AQ	<p>LIFECYCLE SUPPORT TASKS SOLUTION CONSTRUCTION - Version Description Document</p> <p>The Contractor shall create, maintain, and update a version description document IAW PWS Paragraph 5.2.3.</p> <p>Due within on delivery of build package.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AR	<p>LIFECYCLE SUPPORT TASKS SOLUTION INTEGRATION - Interface Control Documents (ICD) and Updates</p> <p>The Contractor shall create, maintain, and update interface control documents IAW PWS Paragraph 5.2.4.</p> <p>Draft is due within 60 days prior to MS1 IOC and updates as needed. Final ICD(s) is due within 30 days prior to MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AS	<p>LIFECYCLE SUPPORT TASKS SOLUTION INTEGRATION -Technical Planning and Analysis Plan</p> <p>The Contractor shall create, maintain, and update a technical planning and analysis plan IAW PWS Paragraph 5.2.4.</p> <p>Due within 45 DAC award.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AT	<p>LIFECYCLE SUPPORT TASKS SOLUTION INTEGRATION - Interface Design Document</p> <p>The Contractor shall create, maintain, and update an interface design document IAW PWS Paragraph 5.2.4.</p> <p>Draft is due within 60 days prior to MS1 IOC and updates as needed. Final is due within 30 days prior to MS1 IOC.</p> <p>The price of this SLIN shall be amortized</p>	1	LO	\$NSP	\$NSP

	throughout the priced line items.				
0002AU	<p>LIFECYCLE SUPPORT TASKS SOLUTION INTEGRATION -Performance Engineering Plan</p> <p>The Contractor shall create, maintain, and update a performance engineering plan IAW PWS Paragraph 5.2.4.</p> <p>Draft due within 90 DAC award. Final is due within 30 days prior to MS1 IOC.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AV	<p>LIFECYCLE SUPPORT TASKS SOLUTION INTEGRATION -Security Engineering Plan</p> <p>The Contractor shall create, maintain, and update a service engineering plan IAW PWS Paragraph 5.2.4.</p> <p>Draft due within 90 DAC award. Final is due within 30 days prior to MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AW	<p>LIFECYCLE SUPPORT TASKS TESTING SUPPORT - Master Test Plan</p> <p>The Contractor shall create, maintain, and update a master test plan IAW PWS Paragraph 5.2.5.</p> <p>Draft due within 60 DAC award. Final is due within 30 days prior to MS1 IOC.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AX	<p>LIFECYCLE SUPPORT TASKS TESTING SUPPORT - Integrated System Test Plan</p> <p>The Contractor shall create, maintain, and update an integrated system test plan IAW PWS Paragraph 5.2.5.</p> <p>Draft due within 60 DAC award. Final is due within 30 days prior to MS1 IOC.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002AY	<p>LIFECYCLE SUPPORT TASKS TESTING SUPPORT – Master Test Schedule</p>	1	LO	\$NSP	\$NSP

	<p>The Contractor shall develop, update, maintain, and deliver a Master Test Schedule IAW PWS Paragraph 5.2.5</p> <p>Draft due within 60 DAC award. Final is due within 30 days prior to MS1 IOC.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>				
0002AZ	<p>LIFECYCLE SUPPORT TASKS TESTING SUPPORT - Test Case Scenarios</p> <p>The Contractor shall create and execute test case scenarios IAW PWS Paragraph 5.2.5</p> <p>Draft scenarios are due within 20 days before testing commences per the Master Test Schedule. Final scenarios are due within five days after receipt of Government comments.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BA	<p>LIFECYCLE SUPPORT TASKS TESTING SUPPORT -Test Scripts</p> <p>The Contractor shall develop and deliver test scripts IAW PWS Paragraph 5.2.5</p> <p>Draft scripts are due within 20 days before testing commences per the Master Test Schedule. Final scripts are due within five days after receipt of Government comments</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BB	<p>LIFECYCLE SUPPORT TASKS TESTING SUPPORT -Test Results Report</p> <p>The Contractor shall develop and deliver a test results report IAW PWS Paragraph 5.2.5 and all of its subparagraphs.</p> <p>Due within five days after test completion.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BC	<p>LIFECYCLE SUPPORT TASKS TESTING SUPPORT -Defect Tracking Report</p> <p>The Contractor shall generate a defect tracking report IAW PWS Paragraph 5.2.5</p>	1	LO	\$NSP	\$NSP

	<p>Due within five days after test completion.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>				
0002BD	<p>LIFECYCLE SUPPORT TASKS TESTING SUPPORT -Testing Environment</p> <p>The Contractor shall create, maintain, and update a testing environment IAW PWS Paragraph 5.2.5.</p> <p>Due within 30 days prior to scheduled testing</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BE	<p>LIFECYCLE SUPPORT TASKS TESTING SUPPORT -Testing Reports</p> <p>The Contractor shall develop and deliver a Test Results Report IAW PWS Paragraph 5.2.5</p> <p>Due within 30 days prior to scheduled testing.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BF	<p>LIFECYCLE SUPPORT TASKS TESTING SUPPORT -VA Testing Service Certification</p> <p>The Contractor shall provide VA Testing Service Certification IAW PWS Paragraph 5.2.5</p> <p>Due not later than exit from IOC state</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BG	<p>LIFECYCLE SUPPORT TASKS TEST DATA MANAGEMENT- Test Data</p> <p>The Contractor shall generate and manage test data IAW PWS paragraph 5.2.5.2</p> <p>Due within 20 days before testing commences per the Master Test Schedule</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BH	<p>LIFECYCLE SUPPORT TASKS USER ACCEPTANCE TESTING - Business Stakeholder User Acceptance Test (UAT) Report</p> <p>Contractor shall provide a Business</p>	1	LO	\$NSP	\$NSP

	<p>Stakeholder UAT Report IAW PWS Paragraph 5.2.5.7.</p> <p>Due within per the Master Test Schedule</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>				
0002BJ	<p>LIFECYCLE SUPPORT TASKS DEPLOYMENT TESTING - Release and Installation Guide</p> <p>Contractor shall provide Release and Installation Guide IAW PWS Paragraph 5.2.5.8.</p> <p>Due within 30 days prior to MS1 IOC.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BK	<p>LIFECYCLE SUPPORT TASKS 508 COMPLIANCE TESTING -Section 508 Customization Conformance Validation Statement</p> <p>Contractor shall provide Section 508 Customization Conformance Validation Statement IAW PWS Paragraph 5.2.5.11.</p> <p>Statement due within 30 days prior to MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BL	<p>LIFECYCLE SUPPORT TASKS 508 COMPLIANCE TESTING -Section 508 Self Certification Package</p> <p>Contractor shall provide Section 508 Self Certification Package IAW PWS Paragraph 5.2.5.11.</p> <p>Due within 30 days prior to MS1 IOC.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BM	<p>LIFECYCLE SUPPORT TASKS TRAINING - Help Desk Training Package</p> <p>Contractor shall provide a Help Desk Training Package IAW PWS Paragraph 5.2.6</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized</p>	1	LO	\$NSP	\$NSP

	throughout the priced line items.				
0002BN	<p>LIFECYCLE SUPPORT TASKS TRAINING - Systems Administrators/Operations Training Package</p> <p>Contractor shall provide a Systems Administrators/Operations Training Package IAW PWS Paragraph 5.2.6</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BP	<p>LIFECYCLE SUPPORT TASKS TRAINING - End-User Training Package</p> <p>Contractor shall provide an End-User Training Package IAW PWS Paragraph 5.2.6</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BQ	<p>LIFECYCLE SUPPORT TASKS TRAINING - Developer's Guide</p> <p>Contractor shall provide a Developer's Guide IAW PWS Paragraph 5.2.6</p> <p>Due within at MS1 IOC</p>	1	LO	\$NSP	\$NSP
0002BR	<p>LIFECYCLE SUPPORT TASKS TRAINING - Online Help Artifacts</p> <p>Contractor shall provide an Online Help Artifacts IAW PWS Paragraph 5.2.6</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BS	<p>LIFECYCLE SUPPORT TASKS DEPLOYMENT AND RELEASE MANAGEMENT SUPPORT - Solution Deployment Package</p> <p>Contractor shall provide a Solution Deployment Package IAW PWS Paragraph 5.2.7.</p> <p>Draft plan and schedule is due within 30 days before deployment; Final plan is due within 5 days after receipt of Government comments.</p>	1	LO	\$NSP	\$NSP

	The price of this SLIN shall be amortized throughout the priced line items.				
0002BT	<p>LIFECYCLE SUPPORT TASKS CONFIGURATION MANAGEMENT - Configuration Management Package (CMP)</p> <p>Contractor shall provide a CMP IAW PWS Paragraph 5.2.8 and all of its subparagraphs</p> <p>Draft is due within 90 DAC award. Final is due within 5 days after receipt of Government comments.</p> <p>The price of this SLIN shall be amortized throughout the priced line items.</p>	1	LO	\$NSP	\$NSP
0002BU	<p>LIFECYCLE SUPPORT TASKS TRANSITION ORIENTATION SUPPORT - Transition Orientation Package</p> <p>Contractor shall provide transition orientation package IAW PWS Paragraph 5.2.9 and its subparagraphs</p> <p>Due within 30 days after receipt of transition order (Due not later than exit from IOC state.)</p> <p>The price of this CLIN shall be amortized throughout the priced line items.</p>	1	MO	\$NSP	\$NSP
0003	<p>MEDICATION RECONCILIATION COMMERCIAL SOFTWARE PROCUREMENT</p> <p>The Contractor shall deliver medication reconciliation source code and associated documentation IAW PWS Paragraph 5.3.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0003AA and 0003AB).</p> <p>This CLIN includes all travel, labor, supplies, and reports required for the successful completion of the services detailed in Paragraph 5.3.</p> <p>Due within 30 days of contract award.</p>	1	LO	\$NSP	\$NSP
0003AA	<p>Medication Reconciliation Source Code and Associated Documentation</p> <p>The Contractor shall deliver medication reconciliation source code and associated documentation IAW PWS Paragraph 5.3.</p>	1	LO	\$	\$

	<p>Due within 30 days of contract award.</p> <p>The cost of this SLIN shall be amortized across all CLINs.</p>				
0003AB	<p>Medication Reconciliation Perpetual Apache Source Code License</p> <p>The Contractor shall deliver medication reconciliation source code and associated documentation IAW PWS Paragraph 5.3.</p> <p>Due within 30 days of contract award.</p>	1	LO	\$	\$
	TOTAL BASE PERIOD				\$
0004	<p>OPTIONAL TASK A - VSA VISTA.JS AND EHMP MRAR IOC ROLLOUT PHASE I</p> <p>The Contractor shall perform the Architecture Development, Integration, Piloting and Deployment for the VSA VistA.js IAW PWS Paragraphs 5.5 and its subparagraphs</p> <p>The PoP shall be 12 months.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0004AE and 0004AH).</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. . Work shall not commence until a formal modification is issued.</p>	12	MO	\$NSP	\$NSP
0004AA	<p>OPTIONAL TASK A - Increment 2, 3 and 4 Requirements Elaboration</p> <p>Contractor shall provide Iteration 2, 3 and 4 Requirements Elaboration IAW PWS Paragraph 5.5 and its associated subparagraphs.</p> <p>Due within 30 days after optional task award</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0004AE and 0004AH).</p>	1	LO	\$NSP	\$NSP
0004AB	<p>OPTIONAL TASK A - Course-grained APIs</p> <p>Contractor shall provide Course-grained APIs IAW PWS Paragraph 5.5 and its associated subparagraphs.</p> <p>Due within 60 days after optional award. Final</p>	1	LO	\$NSP	\$NSP

	<p>is due within 5 days after receipt of Government comments.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0004AE and 0004AH).</p>				
0004AC	<p>OPTIONAL TASK A - Performance Monitoring Plan and Updates</p> <p>Contractor shall provide Performance Monitoring Plan and Updates IAW PWS Paragraph 5.5 and its associated subparagraphs.</p> <p>Due within 90 days after optional task award. Final due within 5 days after receipt of Government comments.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0004AE and 0004AH).</p>	1	LO	\$NSP	\$NSP
0004AD	<p>OPTIONAL TASK A - Monthly Updated MRAR Technical Documents</p> <p>Contractor shall provide Monthly Updated MRAR Technical Documents IAW PWS Paragraph 5.5 and its subparagraphs</p> <p>Due within 60 days after optional task award and monthly thereafter.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0004AE and 0004AH).</p>	12	MO	\$NSP	\$NSP
0004AE	<p>OPTIONAL TASK A - Monthly Code Release Packages with Associated Release Notes</p> <p>Contractor shall provide a Monthly Code Release Packages with Associated Release Notes IAW PWS Paragraph 5.5 and its subparagraphs.</p> <p>The Government estimated number of 12 Sprint Cycles for the duration of the task (i.e.: 12 Sprint Cycles over the 12 month PoP, Total Price / 12). The contractor may invoice monthly for up to two completed Sprint Cycles provided all required deliverables have been made in accordance with PWS 5.5 and subsequent acceptance of the User Acceptance Test Report deliverable.</p>	1	LO	\$	\$
0004AF	<p>OPTIONAL TASK A - Monthly Source Code Change Report</p>	12	MO	\$NSP	\$NSP

	<p>Contractor shall provide a Monthly Source Code Change Report IAW PWS Paragraph 5.5 and its subparagraphs</p> <p>Due within 60 days after optional task optional task award and monthly thereafter.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0004AE and 0004AH).</p>				
0004AG	<p>OPTIONAL TASK A - Sprint Retrospective Digital Capability “Sound Bytes”</p> <p>Contractor shall provide Sprint Retrospective Digital Capability “Sound Bytes” IAW Paragraph 5.5 and its subparagraphs</p> <p>Due within at the delivery phase</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0004AE and 0004AH).</p>	1	LO	\$NSP	\$NSP
0004AH	<p>OPTIONAL TASK A - Initial Vista.JS Platform Source Code, Apache Source Code License, and Associated Documentation</p> <p>Contractor shall provide initial Vista.js Platform Source Code IAW PWS Paragraph 5.5 and its subparagraphs</p> <p>Due within 30 days after optional task award.</p>	1	LO	\$	\$
	TOTAL OPTIONAL TASK A				\$
0005	<p>OPTIONAL TASK B - VSA VISTA.JS PLATFORM ENHANCEMENTS</p> <p>The Contractor shall perform the Lifecycle Support Tasks IAW PWS Paragraph 5.6 and its subparagraphs</p> <p>The PoP shall be 12 months.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0005AE and 0005AH).</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. Work shall not commence until a formal modification is issued.</p>	12	MO	\$NSP	\$NSP

0005AA	<p>OPTIONAL TASK B - Increment 2, 3 and 4 Requirements Elaboration</p> <p>Contractor shall provide Iteration 2, 3 and 4 Requirements Elaboration IAW PWS Paragraph 5.6 and its subparagraphs.</p> <p>Due within 30 days after award of option.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0005AE and 0005AH).</p>	1	LO	\$NSP	\$NSP
0005AB	<p>OPTIONAL TASK B - Course-grained APIs</p> <p>Contractor shall provide Course-grained APIs IAW PWS Paragraph 5.6 and its subparagraphs.</p> <p>Due within 60 days after award of option. Final is due within 5 days after receipt of Government comments.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0005AE and 0005AH).</p>	1	LO	\$NSP	\$NSP
0005AC	<p>OPTIONAL TASK B - Performance Monitoring Plan and Updates</p> <p>Contractor shall provide Performance Monitoring Plan and Updates IAW PWS Paragraph 5.6 and its subparagraphs</p> <p>Due within 90 days after award of option. Final is due within 5 days after receipt of Government comments.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0005AE and 0005AH).</p>	1	LO	\$NSP	\$NSP
0005AD	<p>OPTIONAL TASK B – Monthly Updated VSA Vista.Js Enhancements Technical Documents</p> <p>Contractor shall provide e Monthly Updated VSA Vista.Js Enhancements Technical Documents IAW PWS Paragraph 5.6 and its subparagraphs.</p> <p>Due within 60 Days After Optional Task B award.</p> <p>The price of this CLIN shall be amortized</p>	1	LO	\$NSP	\$NSP

	throughout the priced line items (0005AE and 0005AH).				
0005AE	<p>OPTIONAL TASK B –Monthly Code Release Packages and Associated Notes</p> <p>Contractor shall provide Monthly Code Release Packages and Associated Notes IAW PWS Paragraph 5.6 and its subparagraphs.</p> <p>The Government estimated number of 9 Sprint Cycles for the duration of the task (i.e.: 9 Sprint Cycles over the 12 month PoP, Total Price / 12). The contractor may invoice monthly for up to two completed Sprint Cycles provided all required deliverables have been made in accordance with PWS 5.6 and subsequent acceptance of the User Acceptance</p>	1	LO	\$	\$
0005AF	<p>OPTIONAL TASK B – Monthly Source Code Change Report</p> <p>Contractor shall provide Monthly Source Code Change Report IAW PWS Paragraph 5.6 and its subparagraphs.</p> <p>Due within 60 days after optional task award and monthly thereafter.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0005AE and 0005AH).</p>	12	MO	\$NSP	\$NSP
0005AG	<p>OPTIONAL TASK B – Sprint Retrospective Digital Capability “Sound Bytes”</p> <p>Contractor shall provide Sprint Retrospective Digital Capability “Sound Bytes” IAW PWS Paragraph 5.6 and its subparagraphs.</p> <p>Due within at the delivery phase</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0005AE and 0005AH).</p>	1	LO	\$NSP	\$NSP
0005AH	<p>OPTIONAL TASK B –Initial VSAVista.JS Enhancements Source Code, Apache Source Code License, and Associated Documentation</p> <p>Contractor shall provide Initial VSAVista.JS Enhancements Source Code, Apache Source Code License, and Associated Documentation IAW PWS Paragraph 5.6 and its subparagraphs.</p>	1	LO	\$	\$

	Due within 30 days after optional task award.				
	TOTAL OPTIONAL TASK B				\$
0006	<p>OPTIONAL TASK C- JOINT LEGACY VIEWER (JLV) DEVELOPMENT, VISTA.JS INTEGRATION, AND GET THE DATA BACK (GTDB)</p> <p>The Contractor shall perform Optional Task C IAW PWS Paragraph 5.7 and its subparagraphs.</p> <p>The PoP is 12 months.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. . Work shall not commence until a formal modification is issued.</p>	1	LO	\$NSP	\$NSP
0006AA	<p>OPTIONAL TASK C- Information Input on White Paper Analysis of Access and Security Implications of using JLV for GTDB Initiatives involving Non-VA Care Entities</p> <p>The Contractor shall provide the information input IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>	1	LO	\$NSP	\$NSP
0006AB	<p>OPTIONAL TASK C- Informational Input to a White Paper on Legacy Convergence vs Deprecation/Retirement Strategy for the VSA VistA.js Federation Platform</p> <p>The Contractor shall provide informational input IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>Due within 60 days after award of option.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>	1	LO	\$NSP	\$NSP
0006AC	<p>OPTIONAL TASK C- JLV/eHMP/API 2.0 Integrated VistA.js API Agile Release Management Plan</p>	1	LO	\$NSP	\$NSP

	<p>The Contractor shall provide the Management Plan IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>Due within 30 days after optional task award and updated monthly thereafter.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>				
0006AD	<p>OPTIONAL TASK C- Training Documentation</p> <p>The Contractor shall provide the Training Documentation IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>Due within at MS1 IOC.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>	1	LO	\$NSP	\$NSP
0006AE	<p>OPTIONAL TASK C- Demonstration of Developed Capability for Government Review</p> <p>The Contractor shall provide the Demonstration IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>Due within 60 days after optional task award</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>	1	LO	\$NSP	\$NSP
0006AF	<p>OPTIONAL TASK C- Extended JLV Source Code with VistA.js Integration and Associated Documentation</p> <p>The Contractor shall provide and deliver the Extended JLV Source Code with VistA.js Integration and Associated Documentation IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>The Government estimated number of 12 Sprint Cycles for the duration of the task (i.e.: 12 Sprint Cycles over the 12 month PoP, Total Price / 12). The contractor may invoice monthly for up to two completed Sprint Cycles provided all required deliverables have been made in accordance with PWS 5.7 and subsequent acceptance of the User Acceptance Test Report deliverable.</p>	1	LO	\$	\$

	<p>Due within 10 days after completion of previous sprint cycle</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>				
0006AG	<p>OPTIONAL TASK C- Extended JLV GTDB Source Code and associated documentation</p> <p>The Contractor shall provide and deliver the extended JLV GTDB Source Code and associated documentation IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>The Government estimated number of 12 Sprint Cycles for the duration of the task (i.e.: 12 Sprint Cycles over the 12 month PoP, Total Price / 12). The contractor may invoice monthly for up to two completed Sprint Cycles and subsequent acceptance of the User Acceptance Test Report deliverable.</p> <p>Due within 10 days after completion of previous sprint cycle</p> <p>Due within at MS1 IOC</p>	1	LO	\$	\$
0006AH	<p>OPTIONAL TASK C- A&A documentation and Risk Assessment Test Result</p> <p>The Contractor shall provide the documentation and risk assessment test results IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>Due not later than exit from IOC state</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>	1	LO	\$NSP	\$NSP
0006AJ	<p>OPTIONAL TASK C- Updates to Architecture Diagrams</p> <p>The Contractor shall provide the updates IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>Due not later than exit from IOC state</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>	1	LO	\$NSP	\$NSP

0006AK	<p>OPTIONAL TASK C- Monthly Updated Technical Documents</p> <p>The Contractor shall provide Monthly Updated Technical Documents IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>	12	EA	\$NSP	\$NSP
0006AL	<p>OPTIONAL TASK C- Monthly Code Release Packages and Associated Notes</p> <p>The Contractor shall provide Monthly Code Release Packages and Associated Notes IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>	12	EA	\$NSP	\$NSP
0006AM	<p>OPTIONAL TASK C- Monthly Source Code Change Report</p> <p>The Contractor shall provide Monthly Source Code Change Report IAW PWS Paragraph 5.7 and its subparagraphs</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0006AF and 0006AG).</p>	12	EA	\$NSP	\$NSP
TOTAL OPTIONAL TASK C					\$
0007	<p>OPTIONAL TASK D- CRS INTEGRATION WITH VETERAN TIMELINE/VETERAN DATA, ACCESS ENHANCEMENTS, AND EXTENDING POINT OF SERVICE TO CHOICE</p> <p>The Contractor shall perform Optional Task D IAW PWS Paragraph 5.8.</p> <p>The PoP shall be 12 months.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0007AH and 0007AJ).</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. . Work shall not commence until a formal modification is issued.</p>	12	MO	\$NSP	\$NSP
0007AA	OPTIONAL TASK D- Updates to	1	LO	\$NSP	\$NSP

	<p>Architecture Diagrams</p> <p>The Contractor shall provide Updates IAW PWS Paragraph 5.8.</p> <p>Due not later than exit from IOC state.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0007AH and 0007AJ).</p>				
0007AB	<p>OPTIONAL TASK D- IOC Pilot-ready Software Baseline Existing Functional Prototype</p> <p>The Contractor shall provide the Functional Prototype IAW PWS Paragraph 5.8.</p> <p>Due within at MS1 IOC.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0007AH and 0007AJ).</p>	1	LO	\$NSP	\$NSP
0007AC	<p>OPTIONAL TASK D- Choice Data Ontology and Taxonomy</p> <p>The Contractor shall provide Choice Data Ontology and Taxonomy IAW PWS Paragraph 5.8.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0007AH and 0007AJ).</p>	1	LO	\$NSP	\$NSP
0007AD	<p>OPTIONAL TASK D- Database that Implements the Data Model</p> <p>The Contractor shall provide the Database IAW PWS Paragraph 5.8.</p> <p>Due within 60 days after optional task award.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0007AH and 0007AJ).</p>	1	LO	\$NSP	\$NSP
0007AF	<p>OPTIONAL TASK D- Use Cases</p> <p>The Contractor shall provide Use Cases IAW PWS Paragraph 5.8.</p> <p>Due within 90 days after optional task award.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0007AH and 0007AJ).</p>	1	LO	\$NSP	\$NSP

0007AG	<p>OPTIONAL TASK D- Detailed Sprint Schedule</p> <p>The Contractor shall provide a detailed sprint schedule IAW PWS Paragraph 5.8.</p> <p>Due within 60 days after optional task award.</p> <p>The price of this CLIN shall be amortized throughout the priced line items (0007AH and 0007AJ).</p>	1	LO	\$NSP	\$NSP
0007AH	<p>OPTIONAL TASK D- Monthly Code Release Packages and Associated Notes</p> <p>The Contractor shall provide and deliver the Monthly Code Release Packages and Associated Notes IAW PWS Paragraph 5.8.</p> <p>The Government estimated number of 12 Sprint Cycles for the duration of the task (i.e.: 10 Sprint Cycles over the 12 month PoP, Total Price / 12). The contractor may invoice monthly for up to two completed Sprint Cycles provided all required deliverables have been made in accordance with PWS 5.8 and subsequent acceptance of the User Acceptance Test Report deliverable.</p>	12	EA	\$	\$
0007AJ	<p>OPTIONAL TASK D- CRS with Veterans Timeline Integration Source Code, Apache Source Code License, and Associated Documentation</p> <p>The Contractor shall provide a detailed CRS with Veterans Timeline Integration Source Code IAW PWS Paragraph 5.8.</p> <p>Due within 60 days after option award.</p>	1	LO	\$	\$
	TOTAL OPTIONAL TASK D				\$
0008	<p>OPTIONAL TASK E- PATIENT PROVIDER EXPERIENCE COTS SOFTWARE COMPONENTS</p> <p>The Contractor shall perform software development, defect remediation and maintenance activities IAW PWS Paragraph 5.9, and its subparagraphs.</p> <p>The PoP is 12 months</p> <p>The price of this CLIN shall be amortized in 0008AA.</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity</p>	12	MO	\$NSP	\$NSP

	<p>– Separately Priced Line Item at any time during the period of performance. . Work shall not commence until a formal modification is issued.</p>				
0008AA	<p>OPTIONAL TASK E- Patient Provider Experience Source Code components and/or combination of enterprise COTS runtime licenses, Apache Source Code Licenses, and Associated Documentation</p> <p>The Contractor shall provide Patient Provider Experience Source Code IAW PWS Paragraph 5.9.</p> <p>The Government estimated number of 12 Sprint Cycles for the duration of the task (i.e.: 10 Sprint Cycles over the 12 month PoP, Total Price / 12). The contractor may invoice monthly for up to two completed Sprint Cycles provided all required deliverables have been made in accordance with PWS 5.9 and subsequent acceptance of the User Acceptance Test Report deliverable.</p> <p>Due within 45 days after optional task award.</p>	1	LO	\$	\$
0008AB	<p>OPTIONAL TASK E-Updates to the Architecture Diagrams</p> <p>The Contractor shall provide Updates to the Architecture Diagrams IAW PWS Paragraph 5.9.</p> <p>Due within 90 days after optional task award</p> <p>The price of this CLIN shall be amortized in 0008AA.</p>	1	LO	\$NSP	\$NSP
0008AC	<p>OPTIONAL TASK E-Trans-analytics Data Plan</p> <p>The Contractor shall provide Trans-analytics Data Plan IAW PWS Paragraph 5.9.</p> <p>Due within 90 days after optional task award</p> <p>The price of this CLIN shall be amortized in 0008AA.</p>	1	LO	\$NSP	\$NSP
0008AD	<p>OPTIONAL TASK E-Initial Data Capture and InfoButton Requirements Set and Backlog</p> <p>The Contractor shall provide Initial Data Capture and InfoButton Requirements Set and Backlog IAW PWS Paragraph 5.9.</p>	1	LO	\$NSP	\$NSP

	<p>Due within 90 days after optional task award</p> <p>The price of this CLIN shall be amortized in 0008AA.</p>				
0008AE	<p>OPTIONAL TASK E-Use Cases</p> <p>The Contractor shall provide Use Cases IAW PWS Paragraph 5.9.</p> <p>Due within 90 days after optional task award</p> <p>The price of this CLIN shall be amortized in 0008AA.</p>	1	LO	\$NSP	\$NSP
0008AF	<p>OPTIONAL TASK E-Detailed Sprint Schedule</p> <p>The Contractor shall provide Detailed Sprint Schedule IAW PWS Paragraph 5.9.</p> <p>Due within 90 days after optional task award</p> <p>The price of this CLIN shall be amortized in 0008AA.</p>	1	LO	\$NSP	\$NSP
0008AG	<p>OPTIONAL TASK E-Sprint Retrospective Digital Capability “Sound Bytes”</p> <p>The Contractor shall provide Sprint Retrospective Digital Capability “Sound Bytes” IAW PWS Paragraph 5.9.</p> <p>Due within 90 days after optional task award</p> <p>The price of this CLIN shall be amortized in 0008AA.</p>	1	LO	\$NSP	\$NSP
	TOTAL OPTIONAL TASK E				\$
0009	<p>OPTIONAL TASK F- VISTA.JS IOC ROLLOUT PHASE II</p> <p>The Contractor shall perform IOC rollout of all previously developed source code under this PWS to three additional VistA production environments IAW PWS Paragraph 5.10.</p> <p>The PoP shall be six months</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. . Work shall not commence until a formal modification is issued.</p>	6	MO	\$	\$
0009AA	<p>OPTIONAL TASK F- Lessons Learned Report</p>	1	LO	\$NSP	\$NSP

	<p>Contractor will complete a Lessons Learned Report IAW PWS Paragraph 5.10.</p> <p>Due within 120 days after optional task award.</p> <p>The price of this CLIN shall be amortized in 0009.</p>				
0009AB	<p>OPTIONAL TASK F- Updates to the Deployment Plan</p> <p>Contractor will complete Updates to the Deployment Plan IAW PWS Paragraph 5.10.</p> <p>Due within 30 days after optional task award.</p> <p>The price of this CLIN shall be amortized in 0009.</p>	1	LO	\$NSP	\$NSP
0009AC	<p>OPTIONAL TASK F- BRD Updates</p> <p>Contractor will complete BRD Updates IAW PWS Paragraph 5.10</p> <p>Due within 90 days after optional task award.</p> <p>The price of this CLIN shall be amortized in 0009.</p>	1	LO	\$NSP	\$NSP
0009AD	<p>OPTIONAL TASK F- RSD Updates</p> <p>Contractor will complete RSD Updates IAW PWS Paragraph 5.10.</p> <p>Due within 90 days after optional task award.</p> <p>The price of this CLIN shall be amortized in 0009.</p>	1	LO	\$NSP	\$NSP
0010	<p>OPTIONAL TASK G- VISTA.JS IOC ROLLOUT PHASE III</p> <p>The Contractor shall perform IOC rollout IAW PWS Paragraph 5.11</p> <p>The PoP shall be six months</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. . Work shall not commence until a formal modification is issued.</p>	6	MO	\$	\$
0010AA	<p>OPTIONAL TASK G- Lessons Learned Report</p>	1	LO	\$NSP	\$NSP

	<p>The Contractor shall provide a Lessons Learned Report IAW PWS Paragraph 5.11.</p> <p>Due within 120 days after optional task award.</p> <p>The price of this CLIN shall be amortized in 0010.</p>				
0010AB	<p>OPTIONAL TASK G– Updates to the IOC Rollout Plan</p> <p>The Contractor shall provide Updates to an IOC Rollout Plan IAW PWS Paragraph 5.11.</p> <p>Due within 30 days after optional task award.</p> <p>The price of this CLIN shall be amortized in 0010.</p>	1	LO	\$NSP	\$NSP
0010AC	<p>OPTIONAL TASK G– BRD Updates</p> <p>The Contractor shall provide BRD Updates to an IOC Rollout Plan IAW PWS Paragraph 5.11.</p> <p>Due within 90 days after optional task award.</p> <p>The price of this CLIN shall be amortized in 0010.</p>	1	LO	\$NSP	\$NSP
0010AD	<p>OPTIONAL TASK G– RSD Updates</p> <p>The Contractor shall provide RSD Updates IAW PWS Paragraph 5.11</p> <p>Due within 90 days after optional task award.</p> <p>The price of this CLIN shall be amortized in 0010.</p>	1	LO	\$NSP	\$NSP
	TOTAL OPTIONAL TASK G				\$
0011	<p>OPTIONAL TASK H- MARGINAL SUSTAINMENT</p> <p>The Contractor shall provide sustainment support IAW PWS Paragraph 5.12</p> <p>The PoP shall be 12 months.</p> <p>The price of this CLIN shall be amortized throughout 0011AA through 0011AD.</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. . Work</p>	12	MO	\$NSP	\$NSP

	shall not commence until a formal modification is issued.				
0011AA	<p>OPTIONAL TASK H- Marginal Sustainment for Optional Task C – JLV</p> <p>The Contractor shall provide marginal sustainment for Optional Task C JLV IAW PWS Paragraph 5.12.</p> <p>This option can be fully or partially exercised.</p> <p>The PoP is 12 months from optional task award.</p>	12	MO	\$	\$
0011AB	<p>OPTIONAL TASK H- Marginal Sustainment for Optional Task C – JLV GDTB Portion</p> <p>The Contractor shall provide marginal sustainment for Optional Task C JLV GTDB IAW PWS Paragraph 5.12.</p> <p>The PoP is 10 months from optional task award.</p>	10	MO	\$	\$
0011AC	<p>OPTIONAL TASK H- Marginal Sustainment for Optional Task D</p> <p>The Contractor shall provide marginal sustainment for Optional Task D IAW PWS Paragraph 5.12.</p> <p>The PoP is eight months from optional task award.</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. . Work shall not commence until a formal modification is issued.</p>	8	MO	\$	\$
0011AD	<p>OPTIONAL TASK H- Marginal Sustainment for Optional Task A</p> <p>The Contractor shall provide marginal sustainment for Optional Task A IAW PWS Paragraph 5.12.</p> <p>The PoP is six months from optional task award.</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. . Work shall not commence until a formal modification is issued.</p>	6	MO	\$	\$
0011AE	OPTIONAL TASK H- Usage Reports	1	LO	\$NSP	\$NSP

	<p>The Contractor shall provide Usage Reports IAW PWS Paragraph 5.12.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0011AA through 0011AD.</p>				
0011AF	<p>OPTIONAL TASK H- Performance Monitoring Reports</p> <p>The Contractor shall provide performance monitoring reports IAW PWS Paragraph 5.12.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0011AA through 0011AD.</p>	1	LO	\$NSP	\$NSP
0011AG	<p>OPTIONAL TASK H – Software Transition Plan</p> <p>The Contractor shall provide a software transition plan IAW PWS Paragraph 5.123</p> <p>Due within MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0011AA through 0011AD.</p>	1	LO	\$NSP	\$NSP
	TOTAL OPTIONAL TASK H				\$
0012	<p>OPTIONAL TASK I- MANDATORY SUSTAINMENT</p> <p>The Contractor shall provide sustainment support IAW PWS Paragraph 5.13</p> <p>The PoP shall be six months from optional task award.</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. . Work shall not commence until a formal modification is issued.</p>	6	MO	\$NSP	\$NSP
0012AA	<p>OPTIONAL TASK I- Mandatory Sustainment for Optional Task C – JLV</p> <p>Contractor shall provide mandatory sustainment for Optional Task C JLV IAW PWS Paragraph 5.13.</p>	6	MO	\$	\$

	<p>The PoP is six months from optional task award.</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. . Work shall not commence until a formal modification is issued.</p>				
0012AB	<p>OPTIONAL TASK I- Mandatory I Sustainment for Optional Task C – JLV GDTB Portion</p> <p>Contractor shall provide mandatory sustainment for Optional Task C JLV GTDB IAW PWS Paragraph 5.13.</p> <p>The PoP is six months from optional task award.</p>	6	MO	\$	\$
0012AC	<p>OPTIONAL TASK I- Mandatory Sustainment for Optional Task D</p> <p>Contractor shall provide mandatory sustainment for Optional Task D IAW PWS Paragraph 5.13.</p> <p>The PoP is six months from optional task award.</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. Work shall not commence until a formal modification is issued.</p>	6	MO	\$	\$
0012AD	<p>OPTIONAL TASK I- Mandatory Sustainment for Optional Task A</p> <p>Contractor shall provide mandatory sustainment for Optional Task A IAW PWS Paragraph 5.13.</p> <p>The PoP is six months from optional task award.</p> <p>This optional task may be exercised IAW FAR 52.217-7 Option for Increased Quantity – Separately Priced Line Item at any time during the period of performance. Work shall not commence until a formal modification is issued.</p>	6	MO	\$	\$
0012AE	<p>OPTIONAL TASK I- Software Source Code Baselines</p> <p>Contractor shall provide the software source code baselines IAW PWS Paragraph 5.13</p>	1	LO	\$NSP	\$NSP

	<p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>				
0012AF	<p>OPTIONAL TASK I - Knowledge Transfer and Training Plan</p> <p>Contractor shall knowledge transfer and training plan IAW PWS Paragraph 5.13</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AG	<p>OPTIONAL TASK I - Software Modifications Summary Report</p> <p>Contractor shall provide the software modifications summary report IAW PWS Paragraph 5.13 and all its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AH	<p>OPTIONAL TASK I - Software User documentation Updates</p> <p>Contractor shall provide the software user documentation updates IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AJ	<p>OPTIONAL TASK I - System User documentation Updates</p> <p>Contractor shall provide the system user documentation updates IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AK	<p>OPTIONAL TASK I - Updated application documentation</p> <p>Contractor shall provide the system user documentation updates IAW PWS Paragraph</p>	1	LO	\$NSP	\$NSP

	<p>5.13.</p> <p>Critical updates to application are due within 24 hours of a critical change occurring in the application. Non-Critical updates are due within 72 hours within a non-critical change occurring in the application.</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>				
0012AL	<p>OPTIONAL TASK I - Configuration management Change Reports</p> <p>Contractor shall configuration management change reports IAW PWS Paragraph 5.13.</p> <p>Due weekly.</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AM	<p>OPTIONAL TASK I - Edit technology refresh planning documents as needed</p> <p>Contractor shall edit technology refresh planning documents as needed IAW PWS Paragraph 5.13.</p> <p>Due within quarterly.</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AN	<p>OPTIONAL TASK I - System Administration Logs</p> <p>Contractor shall provide the system administration logs IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AP	<p>OPTIONAL TASK I - System Failure Lessons Learned Report</p> <p>Contractor shall provide the system failure lessons learned report IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized</p>	1	LO	\$NSP	\$NSP

	throughout 0012AA through 0012AD.				
0012AQ	<p>OPTIONAL TASK I - Routine Maintenance Schedule</p> <p>Contractor shall provide the routine maintenance schedule IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AR	<p>OPTIONAL TASK I - Repair Strategy Report</p> <p>Contractor shall provide repair strategy report IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AS	<p>OPTIONAL TASK I - Repair Summary Report</p> <p>Contractor shall provide repair summary report IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AT	<p>OPTIONAL TASK I - Enrollment System Administrator Quarterly Report</p> <p>Contractor shall provide enrollment system administrator quarterly report IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AU	<p>OPTIONAL TASK I - Software/Code Associated Documentation Updates</p> <p>Contractor shall provide Software/Code Associated Documentation Updates IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p>	1	LO	\$NSP	\$NSP

	The price of this SLIN shall be amortized throughout 0012AA through 0012AD.				
0012AV	<p>OPTIONAL TASK I - Release Documentation Package</p> <p>Contractor shall provide Release Documentation Package IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AW	<p>OPTIONAL TASK I - Usage Reports</p> <p>Contractor shall provide usage reports IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
0012AX	<p>OPTIONAL TASK I - Performance Monitoring Reports</p> <p>Contractor shall provide performance monitoring reports IAW PWS Paragraph 5.13 and its subparagraphs.</p> <p>Due within at MS1 IOC</p> <p>The price of this SLIN shall be amortized throughout 0012AA through 0012AD.</p>	1	LO	\$NSP	\$NSP
TOTAL OPTIONAL TASK I					\$
TOTAL OPTIONAL TASKS					\$
GRAND TOTAL BASE + OPTIONAL TASKS					\$

SECTION C - CONTRACT CLAUSES

C.1 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.acquisition.gov/far/index.html>

<http://www.va.gov/oal/library/vaar/>

<u>FAR Number</u>	<u>Title</u>	<u>Date</u>
52.203-17	CONTRACTOR EMPLOYEE WHISTLEBLOWER RIGHTS AND REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS	APR 2014
52.204-4	PRINTED OR COPIED DOUBLE-SIDED ON RECYCLED PAPER	MAY 2011
52.204-9	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL	JAN 2011
52.204-13	SYSTEM FOR AWARD MANAGEMENT MAINTENANCE	JUL 2013
52.204-18	COMMERCIAL AND GOVERNMENT ENTITY CODE MAINTENANCE	NOV 2014
52.224-1	PRIVACY ACT NOTIFICATION	SEP 2100
52.224-2	PRIVACY ACT	APR 1984
52.227-1	AUTHORIZATION AND CONSENT	APR 1984
52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT	DEC 2007
52.227-13	PATENT RIGHTS—OWNERSHIP BY THE GOVERNMENT	DEC 2007
52.227-14	RIGHTS IN DATA—GENERAL ALTERNATE IV (DEC 2007)	MAY 2014
52.227-14	RIGHTS IN DATA—GENERAL	MAY 2014
52.232-39	UNENFORCEABILITY OF UNAUTHORIZED OBLIGATIONS	JUN 2013
52.232-40	PROVIDING ACCELERATED PAYMENTS TO SMALL BUSINESS SUBCONTRACTORS	DEC 2013

(End of Clause)

C.2 52.212-4 CONTRACT TERMS AND CONDITIONS—COMMERCIAL ITEMS (MAY 2015)

(a) *Inspection/Acceptance.* The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. If repair/replacement or reperformance will not correct the defects or is not possible, the Government may seek an equitable price reduction or adequate consideration for acceptance of nonconforming supplies or services. The Government must exercise its post-acceptance rights—

- (1) Within a reasonable time after the defect was discovered or should have been discovered; and
- (2) Before any substantial change occurs in the condition of the item, unless the change is due within to the defect in the item.

(b) *Assignment*. The Contractor or its assignee may assign its rights to receive payment due within as a result of performance of this contract to a bank, trust company, or other financing institution, including any Federal lending agency in accordance with the Assignment of Claims Act (31 U.S.C. 3727). However, when a third party makes payment (e.g., use of the Governmentwide commercial purchase card), the Contractor may not assign its rights to receive payment under this contract.

(c) *Changes*. Changes in the terms and conditions of this contract may be made only by written agreement of the parties.

(d) *Disputes*. This contract is subject to 41 U.S.C. chapter 71, Contract Disputes. Failure of the parties to this contract to reach agreement on any request for equitable adjustment, claim, appeal or action arising under or relating to this contract shall be a dispute to be resolved in accordance with the clause at FAR 52.233-1, Disputes, which is incorporated herein by reference. The Contractor shall proceed diligently with performance of this contract, pending final resolution of any dispute arising under the contract.

(e) *Definitions*. The clause at FAR 52.202-1, Definitions, is incorporated herein by reference.

(f) *Excusable delays*. The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence such as, acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(g) *Invoice*.

(1) The Contractor shall submit an original invoice and three copies (or electronic invoice, if authorized) to the address designated in the contract to receive invoices. An invoice must include—

(i) Name and address of the Contractor;

(ii) Invoice date and number;

(iii) Contract number, contract line item number and, if applicable, the order number;

(iv) Description, quantity, unit of measure, unit price and extended price of the items delivered;

(v) Shipping number and date of shipment, including the bill of lading number and weight of shipment if shipped on Government bill of lading;

(vi) Terms of any discount for prompt payment offered;

(vii) Name and address of official to whom payment is to be sent;

(viii) Name, title, and phone number of person to notify in event of defective invoice; and

(ix) Taxpayer Identification Number (TIN). The Contractor shall include its TIN on the invoice only if required elsewhere in this contract.

(x) Electronic funds transfer (EFT) banking information.

(A) The Contractor shall include EFT banking information on the invoice only if required elsewhere in this contract.

(B) If EFT banking information is not required to be on the invoice, in order for the invoice to be a proper invoice, the Contractor shall have submitted correct EFT banking information in accordance with the applicable solicitation provision, contract clause (e.g., 52.232-33, Payment by Electronic Funds Transfer—System for Award Management, or 52.232-34, Payment by Electronic Funds Transfer—Other Than System for Award Management), or applicable agency procedures.

(C) EFT banking information is not required if the Government waived the requirement to pay by EFT.

(2) Invoices will be handled in accordance with the Prompt Payment Act (31 U.S.C. 3903) and Office of Management and Budget (OMB) prompt payment regulations at 5 CFR part 1315.

(h) *Patent indemnity.* The Contractor shall indemnify the Government and its officers, employees and agents against liability, including costs, for actual or alleged direct or contributory infringement of, or inducement to infringe, any United States or foreign patent, trademark or copyright, arising out of the performance of this contract, provided the Contractor is reasonably notified of such claims and proceedings.

(i) Payment.—

(1) *Items accepted.* Payment shall be made for items accepted by the Government that have been delivered to the delivery destinations set forth in this contract.

(2) *Prompt payment.* The Government will make payment in accordance with the Prompt Payment Act (31 U.S.C. 3903) and prompt payment regulations at 5 CFR part 1315.

(3) *Electronic Funds Transfer (EFT).* If the Government makes payment by EFT, see 52.212-5(b) for the appropriate EFT clause.

(4) *Discount.* In connection with any discount offered for early payment, time shall be computed from the date of the invoice. For the purpose of computing the discount earned, payment shall be considered to have been made on the date which appears on the payment check or the specified payment date if an electronic funds transfer payment is made.

(5) *Overpayments.* If the Contractor becomes aware of a duplicate contract financing or invoice payment or that the Government has otherwise overpaid on a contract financing or invoice payment, the Contractor shall—

(i) Remit the overpayment amount to the payment office cited in the contract along with a description of the overpayment including the—

(A) Circumstances of the overpayment (e.g., duplicate payment, erroneous payment, liquidation errors, date(s) of overpayment);

(B) Affected contract number and delivery order number, if applicable;

(C) Affected contract line item or subline item, if applicable; and

(D) Contractor point of contact.

(ii) Provide a copy of the remittance and supporting documentation to the Contracting Officer.

(6) *Interest.*

(i) All amounts that become payable by the Contractor to the Government under this contract shall bear simple interest from the date due within until paid unless paid within 30 days of becoming due within. The interest rate shall be the interest rate established by the Secretary of the Treasury as provided in 41 U.S.C. 7109, which is applicable to the period in which the amount becomes due within, as provided in (i)(6)(v) of this clause, and then at the rate applicable for each six-month period as fixed by the Secretary until the amount is paid.

(ii) The Government may issue a demand for payment to the Contractor upon finding a debt is due within under the contract.

(iii) *Final decisions.* The Contracting Officer will issue a final decision as required by 33.211 if—

(A) The Contracting Officer and the Contractor are unable to reach agreement on the existence or amount of a debt within 30 days;

(B) The Contractor fails to liquidate a debt previously demanded by the Contracting Officer within the timeline specified in the demand for payment unless the amounts were not repaid because the Contractor has requested an installment payment agreement; or

(C) The Contractor requests a deferment of collection on a debt previously demanded by the Contracting Officer (see 32.607-2).

(iv) If a demand for payment was previously issued for the debt, the demand for payment included in the final decision shall identify the same due within date as the original demand for payment.

(v) Amounts shall be due within at the earliest of the following dates:

(A) The date fixed under this contract.

(B) The date of the first written demand for payment, including any demand for payment resulting from a default termination.

(vi) The interest charge shall be computed for the actual number of calendar days involved beginning on the due within date and ending on—

(A) The date on which the designated office receives payment from the Contractor;

(B) The date of issuance of a Government check to the Contractor from which an amount otherwise payable has been withheld as a credit against the contract debt; or

(C) The date on which an amount withheld and applied to the contract debt would otherwise have become payable to the Contractor.

(vii) The interest charge made under this clause may be reduced under the procedures prescribed in 32.608-2 of the Federal Acquisition Regulation in effect on the date of this contract.

(j) *Risk of loss.* Unless the contract specifically provides otherwise, risk of loss or damage to the supplies provided under this contract shall remain with the Contractor until, and shall pass to the Government upon:

(1) Delivery of the supplies to a carrier, if transportation is f.o.b. origin; or

(2) Delivery of the supplies to the Government at the destination specified in the contract, if transportation is f.o.b. destination.

(k) *Taxes.* The contract price includes all applicable Federal, State, and local taxes and duties.

(l) *Termination for the Government's convenience.* The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges the Contractor can demonstrate to the satisfaction of the Government using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred which reasonably could have been avoided.

(m) *Termination for cause.* The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(n) *Title.* Unless specified elsewhere in this contract, title to items furnished under this contract shall pass to the Government upon acceptance, regardless of when or where the Government takes physical possession.

(o) *Warranty.* The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(p) *Limitation of liability.* Except as otherwise provided by an express warranty, the Contractor will not be liable to the Government for consequential damages resulting from any defect or deficiencies in accepted items.

(q) *Other compliances.* The Contractor shall comply with all applicable Federal, State and local laws, executive orders, rules and regulations applicable to its performance under this contract.

(r) *Compliance with laws unique to Government contracts.* The Contractor agrees to comply with 31 U.S.C. 1352 relating to limitations on the use of appropriated funds to influence certain Federal contracts; 18 U.S.C. 431 relating to officials not to benefit; 40 U.S.C. chapter 37, Contract Work Hours and Safety Standards; 41 U.S.C. chapter 87, Kickbacks; 41 U.S.C. 4712 and 10 U.S.C. 2409 relating to whistleblower protections; 49 U.S.C. 40118, Fly American; and 41 U.S.C. chapter 21 relating to procurement integrity.

(s) *Order of precedence.* Any inconsistencies in this solicitation or contract shall be resolved by giving precedence in the following order:

(1) The schedule of supplies/services.

(2) The Assignments, Disputes, Payments, Invoice, Other Compliances, Compliance with Laws Unique to Government Contracts, and Unauthorized Obligations paragraphs of this clause;

(3) The clause at 52.212-5.

(4) Addenda to this solicitation or contract, including any license agreements for computer software.

(5) Solicitation provisions if this is a solicitation.

(6) Other paragraphs of this clause.

(7) The Standard Form 1449.

(8) Other documents, exhibits, and attachments

(9) The specification.

(t) *System for Award Management (SAM).*

(1) Unless exempted by an addendum to this contract, the Contractor is responsible during performance and through final payment of any contract for the accuracy and completeness of the data within the SAM database, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the SAM database after the initial registration, the Contractor is required to review and update on an annual basis from the date of initial registration or subsequent updates its information in the SAM database to ensure it is current, accurate and complete. Updating information in the SAM does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

(2)(i) If a Contractor has legally changed its business name, "doing business as" name, or division name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in FAR subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business day's written notification of its intention to (A) change the name in the SAM database; (B) comply with the requirements of subpart 42.12; and (C) agree in writing to the timeline and procedures specified by the responsible Contracting Officer. The Contractor must provide with the notification sufficient documentation to support the legally changed name.

(ii) If the Contractor fails to comply with the requirements of paragraph (t)(2)(i) of this clause, or fails to perform the agreement at paragraph (t)(2)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the SAM information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the electronic funds transfer (EFT) clause of this contract.

(3) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in the SAM record to reflect an assignee for the purpose of assignment of claims (see Subpart

32.8, Assignment of Claims). Assignees shall be separately registered in the SAM database. Information provided to the Contractor's SAM record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the "Suspension of payment" paragraph of the EFT clause of this contract.

(4) Offerors and Contractors may obtain information on registration and annual confirmation requirements via SAM accessed through <https://www.acquisition.gov>.

(u) *Unauthorized Obligations.*

(1) Except as stated in paragraph (u)(2) of this clause, when any supply or service acquired under this contract is subject to any End User License Agreement (EULA), Terms of Service (TOS), or similar legal instrument or agreement, that includes any clause requiring the Government to indemnify the Contractor or any person or entity for damages, costs, fees, or any other loss or liability that would create an Anti-Deficiency Act violation (31 U.S.C. 1341), the following shall govern:

(i) Any such clause is unenforceable against the Government.

(ii) Neither the Government nor any Government authorized end user shall be deemed to have agreed to such clause by virtue of it appearing in the EULA, TOS, or similar legal instrument or agreement. If the EULA, TOS, or similar legal instrument or agreement is invoked through an "I agree" click box or other comparable mechanism (e.g., "click-wrap" or "browse-wrap" agreements), execution does not bind the Government or any Government authorized end user to such clause.

(iii) Any such clause is deemed to be stricken from the EULA, TOS, or similar legal instrument or agreement.

(2) Paragraph (u)(1) of this clause does not apply to indemnification by the Government that is expressly authorized by statute and specifically authorized under applicable agency regulations and procedures.

(v) *Incorporation by reference.* The Contractor's representations and certifications, including those completed electronically via the System for Award Management (SAM), are incorporated by reference into the contract.

(End of Clause)

C.3 52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS—COMMERCIAL ITEMS (MAY 2015)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses, which are incorporated in this contract by reference, to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

(1) 52.209-10, Prohibition on Contracting with Inverted Domestic Corporations (Dec 2014)

(2) 52.233-3, Protest After Award (Aug 1996) (31 U.S.C. 3553).

(3) 52.233-4, Applicable Law for Breach of Contract Claim (Oct 2004) (Public Laws 108-77 and 108-78 (19 U.S.C. 3805 note)).

(b) The Contractor shall comply with the FAR clauses in this paragraph (b) that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items:

(1) 52.203-6, Restrictions on Subcontractor Sales to the Government (Sept 2006), with Alternate I (Oct 1995) (41 U.S.C. 4704 and 10 U.S.C. 2402).

(2) 52.203-13, Contractor Code of Business Ethics and Conduct (APR 2010)(41 U.S.C. 3509).

(3) 52.203-15, Whistleblower Protections under the American Recovery and Reinvestment Act of 2009 (JUN 2010) (Section 1553 of Pub. L. 111-5). (Applies to contracts funded by the American Recovery and Reinvestment Act of 2009.)

(4) 52.204-10, Reporting Executive Compensation and First-Tier Subcontract Awards (Jul 2013) (Pub. L. 109-282) (31 U.S.C. 6101 note).

(5) [Reserved]

(6) 52.204-14, Service Contract Reporting Requirements (JAN 2014) (Pub. L. 111-117, section 743 of Div. C).

(7) 52.204-15, Service Contract Reporting Requirements for Indefinite-Delivery Contracts (JAN 2014) (Pub. L. 111-117, section 743 of Div. C).

(8) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment. (Aug 2013) (31 U.S.C. 6101 note).

(9) 52.209-9, Updates of Publicly Available Information Regarding Responsibility Matters (Jul 2013) (41 U.S.C. 2313).

(10) [Reserved]

(11)(i) 52.219-3, Notice of HUBZone Set-Aside or Sole-Source Award (NOV 2011) (15 U.S.C. 657a).

(ii) Alternate I (NOV 2011) of 52.219-3.

(12)(i) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (OCT 2014) (if the offeror elects to waive the preference, it shall so indicate in its offer) (15 U.S.C. 657a).

(ii) Alternate I (JAN 2011) of 52.219-4.

(13) [Reserved]

(14)(i) 52.219-6, Notice of Total Small Business Set-Aside (NOV 2011) (15 U.S.C. 644).

(ii) Alternate I (NOV 2011).

(iii) Alternate II (NOV 2011).

(15)(i) 52.219-7, Notice of Partial Small Business Set-Aside (June 2003) (15 U.S.C. 644).

(ii) Alternate I (Oct 1995) of 52.219-7.

- (iii) Alternate II (Mar 2004) of 52.219-7.
- (16) 52.219-8, Utilization of Small Business Concerns (OCT 2014) (15 U.S.C. 637(d)(2) and (3)).
- (17)(i) 52.219-9, Small Business Subcontracting Plan (OCT 2014) (15 U.S.C. 637(d)(4)).
- (ii) Alternate I (Oct 2101) of 52.219-9.
- (iii) Alternate II (Oct 2101) of 52.219-9.
- (iv) Alternate III (OCT 2014) of 52.219-9.
- (18) 52.219-13, Notice of Set-Aside of Orders (NOV 2011) (15 U.S.C. 644(r)).
- (19) 52.219-14, Limitations on Subcontracting (NOV 2011) (15 U.S.C. 637(a)(14)).
- (20) 52.219-16, Liquidated Damages—Subcontracting Plan (Jan 1999) (15 U.S.C. 637(d)(4)(F)(i)).
- (21) 52.219-27, Notice of Service-Disabled Veteran-Owned Small Business Set-Aside (NOV 2011) (15 U.S.C. 657f).
- (22) 52.219-28, Post Award Small Business Program Rerepresentation (Jul 2013) (15 U.S.C. 632(a)(2)).
- (23) 52.219-29, Notice of Set-Aside for Economically Disadvantaged Women-Owned Small Business (EDWOSB) Concerns (Jul 2013) (15 U.S.C. 637(m)).
- (24) 52.219-30, Notice of Set-Aside for Women-Owned Small Business (WOSB) Concerns Eligible Under the WOSB Program (Jul 2013) (15 U.S.C. 637(m)).
- (25) 52.222-3, Convict Labor (June 2003) (E.O. 11755).
- (26) 52.222-19, Child Labor—Cooperation with Authorities and Remedies (JAN 2014) (E.O. 13126).
- (27) 52.222-21, Prohibition of Segregated Facilities (APR 2015).
- (28) 52.222-26, Equal Opportunity (APR 2015) (E.O. 11246).
- (29) 52.222-35, Equal Opportunity for Veterans (JUL 2014) (38 U.S.C. 4212).
- (30) 52.222-36, Equal Opportunity for Workers with Disabilities (JUL 2014) (29 U.S.C. 793).
- (31) 52.222-37, Employment Reports on Veterans (JUL 2014) (38 U.S.C. 4212).
- (32) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496).
- (33)(i) 52.222-50, Combating Trafficking in Persons (MAR 2015) (22 U.S.C. chapter 78 and E.O. 13627).
- (ii) Alternate I (MAR 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).

(34) 52.222-54, Employment Eligibility Verification (AUG 2013). (Executive Order 12989). (Not applicable to the acquisition of commercially available off-the-shelf items or certain other types of commercial items as prescribed in 22.1803.)

(35)(i) 52.223-9, Estimate of Percentage of Recovered Material Content for EPA-Designated Items (May 2008) (42 U.S.C.6962(c)(3)(A)(ii)). (Not applicable to the acquisition of commercially available off-the-shelf items.)

(ii) Alternate I (MAY 2008) of 52.223-9 (42 U.S.C. 6962(i)(2)(C)). (Not applicable to the acquisition of commercially available off-the-shelf items.)

(36)(i) 52.223-13, Acquisition of EPEAT®-Registered Imaging Equipment (JUN 2014) (E.O.s 13423 and 13514).

(ii) Alternate I (JUN 2014) of 52.223-13.

(37)(i) 52.223-14, Acquisition of EPEAT®-Registered Televisions (JUN 2014) (E.O.s 13423 and 13514).

(ii) Alternate I (JUN 2014) of 52.223-14.

(38) 52.223-15, Energy Efficiency in Energy-Consuming Products (DEC 2007)(42 U.S.C. 8259b).

(39)(i) 52.223-16, Acquisition of EPEAT®-Registered Personal Computer Products (JUN 2014) (E.O.s 13423 and 13514).

(ii) Alternate I (JUN 2014) of 52.223-16.

(40) 52.223-18, Encouraging Contractor Policies to Ban Text Messaging While Driving (AUG 2011)

(41) 52.225-1, Buy American—Supplies (MAY 2014) (41 U.S.C. chapter 83).

(42)(i) 52.225-3, Buy American—Free Trade Agreements—Israeli Trade Act (MAY 2014) (41 U.S.C. chapter 83, 19 U.S.C. 3301 note, 19 U.S.C. 2112 note, 19 U.S.C. 3805 note, 19 U.S.C. 4101 note, Pub. L. 103-182, 108-77, 108-78, 108-286, 108-302, 109-53, 109-169, 109-283, 110-138, 112-41, 112-42, and 112-43).

(ii) Alternate I (MAY 2014) of 52.225-3.

(iii) Alternate II (MAY 2014) of 52.225-3.

(iv) Alternate III (MAY 2014) of 52.225-3.

(43) 52.225-5, Trade Agreements (NOV 2013) (19 U.S.C. 2501, *et seq.*, 19 U.S.C. 3301 note).

(44) 52.225-13, Restrictions on Certain Foreign Purchases (JUN 2008) (E.O.'s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).

(45) 52.225-26, Contractors Performing Private Security Functions Outside the United States (Jul 2013) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).

- (46) 52.226-4, Notice of Disaster or Emergency Area Set-Aside (Nov 2007) (42 U.S.C. 5150).
 - (47) 52.226-5, Restrictions on Subcontracting Outside Disaster or Emergency Area (Nov 2007) (42 U.S.C. 5150).
 - (48) 52.232-29, Terms for Financing of Purchases of Commercial Items (Feb 2002) (41 U.S.C. 4505, 10 U.S.C. 2307(f)).
 - (49) 52.232-30, Installment Payments for Commercial Items (Oct 1995) (41 U.S.C. 4505, 10 U.S.C. 2307(f)).
 - (50) 52.232-33, Payment by Electronic Funds Transfer—System for Award Management (Jul 2013) (31 U.S.C. 3332).
 - (51) 52.232-34, Payment by Electronic Funds Transfer—Other than System for Award Management (Jul 2013) (31 U.S.C. 3332).
 - (52) 52.232-36, Payment by Third Party (MAY 2014) (31 U.S.C. 3332).
 - (53) 52.239-1, Privacy or Security Safeguards (Aug 1996) (5 U.S.C. 552a).
 - (54)(i) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006) (46 U.S.C. Appx. 1241(b) and 10 U.S.C. 2631).
 - (ii) Alternate I (Apr 2003) of 52.247-64.
- (c) The Contractor shall comply with the FAR clauses in this paragraph (c), applicable to commercial services, that the Contracting Officer has indicated as being incorporated in this contract by reference to implement provisions of law or Executive orders applicable to acquisitions of commercial items:
- (1) 52.222-17, Nondisplacement of Qualified Workers (MAY 2014) (E.O. 13495).
 - (2) 52.222-41, Service Contract Labor Standards (MAY 2014) (41 U.S.C. chapter 67).
 - (3) 52.222-42, Statement of Equivalent Rates for Federal Hires (MAY 2014) (29 U.S.C. 206 and 41 U.S.C. chapter 67).
 - (4) 52.222-43, Fair Labor Standards Act and Service Contract Labor Standards—Price Adjustment (Multiple Year and Option Contracts) (MAY 2014) (29 U.S.C. 206 and 41 U.S.C. chapter 67).
 - (5) 52.222-44, Fair Labor Standards Act and Service Contract Labor Standards—Price Adjustment (MAY 2014) (29 U.S.C. 206 and 41 U.S.C. chapter 67).
 - (6) 52.222-51, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment—Requirements (MAY 2014) (41 U.S.C. chapter 67).
 - (7) 52.222-53, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services—Requirements (MAY 2014) (41 U.S.C. chapter 67).

[] (8) 52.222-55, Minimum Wages Under Executive Order 13658 (DEC 2014) (Executive Order 13658).

[] (9) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations (MAY 2014) (42 U.S.C. 1792).

[] (10) 52.237-11, Accepting and Dispensing of \$1 Coin (SEP 2008) (31 U.S.C. 5112(p)(1)).

(d) Comptroller General Examination of Record. The Contractor shall comply with the provisions of this paragraph (d) if this contract was awarded using other than sealed bid, is in excess of the simplified acquisition threshold, and does not contain the clause at 52.215-2, Audit and Records—Negotiation.

(1) The Comptroller General of the United States, or an authorized representative of the Comptroller General, shall have access to and right to examine any of the Contractor's directly pertinent records involving transactions related to this contract.

(2) The Contractor shall make available at its offices at all reasonable times the records, materials, and other evidence for examination, audit, or reproduction, until 3 years after final payment under this contract or for any shorter period specified in FAR Subpart 4.7, Contractor Records Retention, of the other clauses of this contract. If this contract is completely or partially terminated, the records relating to the work terminated shall be made available for 3 years after any resulting final termination settlement. Records relating to appeals under the disputes clause or to litigation or the settlement of claims arising under or relating to this contract shall be made available until such appeals, litigation, or claims are finally resolved.

(3) As used in this clause, records include books, documents, accounting procedures and practices, and other data, regardless of type and regardless of form. This does not require the Contractor to create or maintain any record that the Contractor does not maintain in the ordinary course of business or pursuant to a provision of law.

(e)(1) Notwithstanding the requirements of the clauses in paragraphs (a), (b), (c), and (d) of this clause, the Contractor is not required to flow down any FAR clause, other than those in this paragraph (e)(1) in a subcontract for commercial items. Unless otherwise indicated below, the extent of the flow down shall be as required by the clause—

(i) 52.203-13, Contractor Code of Business Ethics and Conduct (APR 2010) (41 U.S.C. 3509).

(ii) 52.219-8, Utilization of Small Business Concerns (OCT 2014) (15 U.S.C. 637(d)(2) and (3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$650,100 (\$1.5 million for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.

(iii) 52.222-17, Nondisplacement of Qualified Workers (MAY 2014) (E.O. 13495). Flow down required in accordance with paragraph (1) of FAR clause 52.222-17.

(iv) 52.222-21, Prohibition of Segregated Facilities (APR 2015).

(v) 52.222-26, Equal Opportunity (APR 2015) (E.O. 11246).

(vi) 52.222-35, Equal Opportunity for Veterans (JUL 2014) (38 U.S.C. 4212).

- (vii) 52.222-36, Equal Opportunity for Workers with Disabilities (JUL 2014) (29 U.S.C. 793).
- (viii) 52.222-37, Employment Reports on Veterans (JUL 2014) (38 U.S.C. 4212).
- (ix) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496). Flow down required in accordance with paragraph (f) of FAR clause 52.222-40.
- (x) 52.222-41, Service Contract Labor Standards (MAY 2014) (41 U.S.C. chapter 67).
- (xi)(A) 52.222-50, Combating Trafficking in Persons (MAR 2015) (22 U.S.C. chapter 78 and E.O. 13627).
- (B) Alternate I (MAR 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).
- (xii) 52.222-51, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment—Requirements (MAY 2014) (41 U.S.C. chapter 67).
- (xiii) 52.222-53, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services—Requirements (MAY 2014) (41 U.S.C. chapter 67).
- (xiv) 52.222-54, Employment Eligibility Verification (AUG 2013).
- (xv) 52.222-55, Minimum Wages Under Executive Order 13658 (DEC 2014) (E.O. 13658).
- (xvi) 52.225-26, Contractors Performing Private Security Functions Outside the United States (Jul 2013) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).
- (xvii) 52.226-6, Promoting Excess Food Donation to Nonprofit Organizations (MAY 2014) (42 U.S.C. 1792). Flow down required in accordance with paragraph (e) of FAR clause 52.226-6.
- (xviii) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (Feb 2006) (46 U.S.C. Appx. 1241(b) and 10 U.S.C. 2631). Flow down required in accordance with paragraph (d) of FAR clause 52.247-64.

(2) While not required, the contractor may include in its subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.

(End of Clause)

C.4 52.217-7 OPTION FOR INCREASED QUANTITY—SEPARATELY PRICED LINE ITEM (MAR 1989)

The Government may require the delivery of the numbered line items, identified in the Schedule as optional items, in the quantities and at the prices stated in the Schedule. The Contracting Officer may exercise these options by written notice to the Contractor at any time during performance. Delivery of added items shall continue at the same rate that like items are called for under the contract, unless the parties otherwise agree.

(End of Clause)

C.5 52.227-3 PATENT INDEMNITY (APR 1984)

(a) The Contractor shall indemnify the Government and its officers, agents, and employees against liability, including costs, for infringement of any United States patent (except a patent issued upon an application that is now or may hereafter be withheld from issue pursuant to a Secrecy Order under 35 U.S.C. 181) arising out of the manufacture or delivery of supplies, the performance of services, or the construction, alteration, modification, or repair of real property (hereinafter referred to as "construction work") under this contract, or out of the use or disposal by or for the account of the Government of such supplies or construction work.

(b) This indemnity shall not apply unless the Contractor shall have been informed as soon as practicable by the Government of the suit or action alleging such infringement and shall have been given such opportunity as is afforded by applicable laws, rules, or regulations to participate in its defense. Further, this indemnity shall not apply to (1) an infringement resulting from compliance with specific written instructions of the Contracting Officer directing a change in the supplies to be delivered or in the materials or equipment to be used, or directing a manner of performance of the contract not normally used by the Contractor, (2) an infringement resulting from addition to or change in supplies or components furnished or construction work performed that was made subsequent to delivery or performance, or (3) a claimed infringement that is unreasonably settled without the consent of the Contractor, unless required by final decree of a court of competent jurisdiction.

(End of Clause)

C.6 52.227-16 ADDITIONAL DATA REQUIREMENTS (JUN 1987)

(a) In addition to the data (as defined in the clause at 52.227-14, Rights in Data—Alternate IV or other equivalent included in this contract) specified elsewhere in this contract to be delivered, the Contracting Officer may, at any time during contract performance or within a period of 3 years after acceptance of all items to be delivered under this contract, order any data first produced or specifically used in the performance of this contract.

(b) The Rights in Data—General clause or other equivalent included in this contract is applicable to all data ordered under this Additional Data Requirements clause. Nothing contained in this clause shall require the Contractor to deliver any data the withholding of which is authorized by the Rights in Data—General or other equivalent clause of this contract, or data which are specifically identified in this contract as not subject to this clause.

(c) When data are to be delivered under this clause, the Contractor will be compensated for converting the data into the prescribed form, for reproduction, and for delivery.

(d) The Contracting Officer may release the Contractor from the requirements of this clause for specifically identified data items at any time during the 3-year period set forth in paragraph (a) of this clause.

(End of Clause)

C.7 VAAR 852.203-70 COMMERCIAL ADVERTISING (JAN 2008)

The bidder or offeror agrees that if a contract is awarded to him/her, as a result of this solicitation, he/she will not advertise the award of the contract in his/her commercial advertising in such a manner as to state

or imply that the Department of Veterans Affairs endorses a product, project or commercial line of endeavor.

(End of Clause)

C.8 VAAR 852.203-71 DISPLAY OF DEPARTMENT OF VETERAN AFFAIRS HOTLINE POSTER (DEC 1992)

(a) Except as provided in paragraph (c) below, the Contractor shall display prominently, in common work areas within business segments performing work under VA contracts, Department of Veterans Affairs Hotline posters prepared by the VA Office of Inspector General.

(b) Department of Veterans Affairs Hotline posters may be obtained from the VA Office of Inspector General (53E), P.O. Box 34647, Washington, DC 20043-4647.

(c) The Contractor need not comply with paragraph (a) above if the Contractor has established a mechanism, such as a hotline, by which employees may report suspected instances of improper conduct, and instructions that encourage employees to make such reports.

(End of Clause)

C.9

C.10 VAAR 852.232-72 ELECTRONIC SUBMISSION OF PAYMENT REQUESTS (NOV 2012)

(a) *Definitions.* As used in this clause—

(1) *Contract financing payment* has the meaning given in FAR 32.101.

(2) *Designated agency office* has the meaning given in 5 CFR 1315.2(m).

(3) *Electronic form* means an automated system transmitting information electronically according to the

Accepted electronic data transmission methods and formats identified in paragraph (c) of this clause. Facsimile, email, and scanned documents are not acceptable electronic forms for submission of payment requests.

(4) *Invoice payment* has the meaning given in FAR 32.101.

(5) *Payment request* means any request for contract financing payment or invoice payment submitted by the contractor under this contract.

(b) *Electronic payment requests.* Except as provided in paragraph (e) of this clause, the contractor shall submit payment requests in electronic form. Purchases paid with a Government-wide commercial purchase card are considered to be an electronic transaction for purposes of this rule, and therefore no additional electronic invoice submission is required.

(c) *Data transmission.* A contractor must ensure that the data transmission method and format are through one of the following:

(1) VA's Electronic Invoice Presentation and Payment System. (See Web site at <http://www.fsc.va.gov/invoice.asp>.)

(2) Any system that conforms to the X12 electronic data interchange (EDI) formats established by the Accredited Standards Center (ASC) and chartered by the American National Standards Institute (ANSI). The X12 EDI Web site (<http://www.x12.org>) includes additional information on EDI 810 and 811 formats.

(d) *Invoice requirements.* Invoices shall comply with FAR 32.905.

(e) *Exceptions.* If, based on one of the circumstances below, the contracting officer directs that payment requests be made by mail, the contractor shall submit payment requests by mail through the United States Postal Service to the designated agency office. Submission of payment requests by mail may be required for:

(1) Awards made to foreign vendors for work performed outside the United States;

(2) Classified contracts or purchases when electronic submission and processing of payment requests could compromise the safeguarding of classified or privacy information;

(3) Contracts awarded by contracting officers in the conduct of emergency operations, such as responses to national emergencies;

(4) Solicitations or contracts in which the designated agency office is a VA entity other than the VA Financial Services Center in Austin, Texas; or

(5) Solicitations or contracts in which the VA designated agency office does not have electronic invoicing capability as described above.

(End of Clause)

C.11 VAAR 852.237-70 CONTRACTOR RESPONSIBILITIES (APR 1984)

The contractor shall obtain all necessary licenses and/or permits required to perform this work. He/she shall take all reasonable precautions necessary to protect persons and property from injury or damage during the performance of this contract. He/she shall be responsible for any injury to himself/herself, his/her employees, as well as for any damage to personal or public property that occurs during the performance of this contract that is caused by his/her employees fault or negligence, and shall maintain personal liability and property damage insurance having coverage for a limit as required by the laws of the State of contract performance. Further, it is agreed that any negligence of the Government, its officers, agents, servants and employees, shall not be the responsibility of the contractor hereunder with the regard to any claims, loss, damage, injury, and liability resulting there from.

(End of Clause)

C.12 MANDATORY WRITTEN DISCLOSURES

Mandatory written disclosures required by FAR clause 52.203-13 to the Department of Veterans Affairs, Office of Inspector General (OIG) must be made electronically through the VA OIG Hotline at <http://www.va.gov/oig/contacts/hotline.asp> and clicking on "FAR clause 52.203-13 Reporting." If you experience difficulty accessing the website, call the Hotline at 1-800-488-8244 for further instructions.

For Performance Based payments you need to include FAR 52.232-32.

**SECTION D - CONTRACT DOCUMENTS, EXHIBITS, OR
ATTACHMENTS**

See attached document: Business Associate Agreement VHA 1605.05.

See attached document: VA Handbook 6500.6 Appendix D Contractor Rules of Behavior.

SECTION E - SOLICITATION PROVISIONS

E.1 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.acquisition.gov/far/index.html>

<http://www.va.gov/oal/library/vaar/>

<u>FAR Number</u>	<u>Title</u>	<u>Date</u>
52.204-7	SYSTEM FOR AWARD MANAGEMENT	JUL 2013
52.204-16	COMMERCIAL AND GOVERNMENT ENTITY CODE REPORTING	NOV 2014
52.204-17	OWNERSHIP OR CONTROL OF OFFEROR	NOV 2014
52.217-4	EVALUATION OF OPTIONS EXERCISED AT TIME OF CONTRACT AWARD	JUN 1988
52.217-5	EVALUATION OF OPTIONS	JUL 1990
52.225-25	PROHIBITION ON CONTRACTING WITH ENTITIES ENGAGING IN CERTAIN ACTIVITIES OR TRANSACTIONS RELATING TO IRAN—REPRESENTATION AND CERTIFICATIONS	DEC 2012

(End of Provision)

E.2 52.209-5 REPRESENTATION BY CORPORATIONS REGARDING AN UNPAID TAX LIABILITY OR A FELONY CONVICTION UNDER ANY FEDERAL LAW (DEVIATION)(MAR 2012)

(a) In accordance with Division H, sections 8124 and 8125 of P.L. 112-74 and sections 738 and 739 of P.L. 112-55 none of the funds made available by either Act may be used to enter into a contract with any corporation that—

(1) Has an unpaid federal tax liability, unless the agency has considered suspension or debarment of the corporation and the Suspension and Debarment Official has made a determination that this action is not necessary to protect the interests of the Government.

(2) Has a felony criminal violation under any Federal or State law within the preceding 24 months, unless the agency has considered suspension or debarment of the corporation and Suspension and Debarment Official has made a determination that this action is not necessary to protect the interests of the Government.

(b) The Offeror represents that—

(1) The offeror does [] does not [] have any unpaid Federal tax liability that has been assessed and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability.

(2) The offeror, its officers or agents acting on its behalf have [] have not [] been convicted of a felony criminal violation under a Federal or State law within the preceding 24 months.

(End of Provision)

E.3 52.209-7 INFORMATION REGARDING RESPONSIBILITY MATTERS (JUL 2013)

(a) *Definitions.* As used in this provision—

"Administrative proceeding" means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (e.g., Securities and Exchange Commission Administrative Proceedings, Civilian Board of Contract Appeals Proceedings, and Armed Services Board of Contract Appeals Proceedings). This includes administrative proceedings at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include agency actions such as contract audits, site visits, corrective plans, or inspection of deliverables.

"Federal contracts and grants with total value greater than \$10,100,100" means—

(1) The total value of all current, active contracts and grants, including all priced options; and

(2) The total value of all current, active orders including all priced options under indefinite-delivery, indefinite-quantity, 8(a), or requirements contracts (including task and delivery and multiple-award Schedules).

"Principal" means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

(b) The offeror [] has [] does not have current active Federal contracts and grants with total value greater than \$10,100,100.

(c) If the offeror checked "has" in paragraph (b) of this provision, the offeror represents, by submission of this offer, that the information it has entered in the Federal Awardee Performance and Integrity Information System (FAPIS) is current, accurate, and complete as of the date of submission of this offer with regard to the following information:

(1) Whether the offeror, and/or any of its principals, has or has not, within the last five years, in connection with the award to or performance by the offeror of a Federal contract or grant, been the subject of a proceeding, at the Federal or State level that resulted in any of the following dispositions:

(i) In a criminal proceeding, a conviction.

(ii) In a civil proceeding, a finding of fault and liability that results in the payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,100 or more.

(iii) In an administrative proceeding, a finding of fault and liability that results in—

(A) The payment of a monetary fine or penalty of \$5,100 or more; or

(B) The payment of a reimbursement, restitution, or damages in excess of \$100,100.

(iv) In a criminal, civil, or administrative proceeding, a disposition of the matter by consent or compromise with an acknowledgment of fault by the Contractor if the proceeding could have led to any of the outcomes specified in paragraphs (c)(1)(i), (c)(1)(ii), or (c)(1)(iii) of this provision.

(2) If the offeror has been involved in the last five years in any of the occurrences listed in (c)(1) of this provision, whether the offeror has provided the requested information with regard to each occurrence.

(d) The offeror shall post the information in paragraphs (c)(1)(i) through (c)(1)(iv) of this provision in FAPIIS as required through maintaining an active registration in the System for Award Management database via <https://www.acquisition.gov> (see 52.204-7).

(End of Provision)

ADDENDUM to FAR 52.212-1 INSTRUCTIONS TO OFFERORS—COMMERCIAL ITEMS

Provisions that are incorporated by reference (by Citation Number, Title, and Date), have the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available.

The following provisions are incorporated into 52.212-1 as an addendum to this solicitation:

E.4 52.212-1 INSTRUCTIONS TO OFFERORS—COMMERCIAL ITEMS (APR 2014)

(a) *North American Industry Classification System (NAICS) code and small business size standard.* The NAICS code and small business size standard for this acquisition appear in Block 10 of the solicitation cover sheet (SF 1449). However, the small business size standard for a concern which submits an offer in its own name, but which proposes to furnish an item which it did not itself manufacture, is 500 employees.

(b) *Submission of offers.* Submit signed and dated offers to the office specified in this solicitation at or before the exact time specified in this solicitation. Offers may be submitted on the SF 1449, letterhead stationery, or as otherwise specified in the solicitation. As a minimum, offers must show—

(1) The solicitation number;

(2) The time specified in the solicitation for receipt of offers;

(3) The name, address, and telephone number of the offeror;

(4) A technical description of the items being offered in sufficient detail to evaluate compliance with the requirements in the solicitation. This may include product literature, or other documents, if necessary;

(5) Terms of any express warranty;

(6) Price and any discount terms;

(7) "Remit to" address, if different than mailing address;

(8) A completed copy of the representations and certifications at FAR 52.212-3 (see FAR 52.212-3(b) for those representations and certifications that the offeror shall complete electronically);

(9) Acknowledgment of Solicitation Amendments;

(10) Past performance information, when included as an evaluation factor, to include recent and relevant contracts for the same or similar items and other references (including contract numbers, points of contact with telephone numbers and other relevant information); and

(11) If the offer is not submitted on the SF 1449, include a statement specifying the extent of agreement with all terms, conditions, and provisions included in the solicitation. Offers that fail to furnish required representations or information, or reject the terms and conditions of the solicitation may be excluded from consideration.

(c) *Period for acceptance of offers.* The offeror agrees to hold the prices in its offer firm for 30 calendar days from the date specified for receipt of offers, unless another time period is specified in an addendum to the solicitation.

(d) *Product samples.* When required by the solicitation, product samples shall be submitted at or prior to the time specified for receipt of offers. Unless otherwise specified in this solicitation, these samples shall be submitted at no expense to the Government, and returned at the sender's request and expense, unless they are destroyed during preaward testing.

(e) *Multiple offers.* Offerors are encouraged to submit multiple offers presenting alternative terms and conditions or commercial items for satisfying the requirements of this solicitation. Each offer submitted will be evaluated separately.

(f) Late submissions, modifications, revisions, and withdrawals of offers.

(1) Offerors are responsible for submitting offers, and any modifications, revisions, or withdrawals, so as to reach the Government office designated in the solicitation by the time specified in the solicitation. If no time is specified in the solicitation, the time for receipt is 4:30 p.m., local time, for the designated Government office on the date that offers or revisions are due within.

(2)(i) Any offer, modification, revision, or withdrawal of an offer received at the Government office designated in the solicitation after the exact time specified for receipt of offers is "late" and will not be considered unless it is received before award is made, the Contracting Officer determines that accepting the late offer would not unduly delay the acquisition; and—

(A) If it was transmitted through an electronic commerce method authorized by the solicitation, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of offers; or

(B) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of offers and was under the Government's control prior to the time set for receipt of offers; or

(C) If this solicitation is a request for proposals, it was the only proposal received.

(ii) However, a late modification of an otherwise successful offer, that makes its terms more favorable to the Government, will be considered at any time it is received and may be accepted.

(3) Acceptable evidence to establish the time of receipt at the Government installation includes the time/date stamp of that installation on the offer wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

(4) If an emergency or unanticipated event interrupts normal Government processes so that offers cannot be received at the Government office designated for receipt of offers by the exact time specified in the solicitation, and urgent Government requirements preclude amendment of the solicitation or other notice of an extension of the closing date, the time specified for receipt of offers will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal Government processes resume.

(5) Offers may be withdrawn by written notice received at any time before the exact time set for receipt of offers. Oral offers in response to oral solicitations may be withdrawn orally. If the solicitation authorizes facsimile offers, offers may be withdrawn via facsimile received at any time before the exact time set for receipt of offers, subject to the conditions specified in the solicitation concerning facsimile offers. An offer may be withdrawn in person by an offeror or its authorized representative if, before the exact time set for receipt of offers, the identity of the person requesting withdrawal is established and the person signs a receipt for the offer.

(g) *Contract award (not applicable to Invitation for Bids)*. The Government intends to evaluate offers and award a contract without discussions with offerors. Therefore, the offeror's initial offer should contain the offeror's best terms from a price and technical standpoint. However, the Government reserves the right to conduct discussions if later determined by the Contracting Officer to be necessary. The Government may reject any or all offers if such action is in the public interest; accept other than the lowest offer; and waive informalities and minor irregularities in offers received.

(h) *Multiple awards*. The Government may accept any item or group of items of an offer, unless the offeror qualifies the offer by specific limitations. Unless otherwise provided in the Schedule, offers may not be submitted for quantities less than those specified. The Government reserves the right to make an award on any item for a quantity less than the quantity offered, at the unit prices offered, unless the offeror specifies otherwise in the offer.

(i) Availability of requirements documents cited in the solicitation.

(1)(i) The GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29, and copies of specifications, standards, and commercial item descriptions cited in this solicitation may be obtained for a fee by submitting a request to—

GSA Federal Supply Service Specifications Section

Suite 8100 470 East L'Enfant Plaza, SW

Washington, DC 20407

Telephone (202) 619-8925

Facsimile (202) 619-8978.

(ii) If the General Services Administration, Department of Agriculture, or Department of Veterans Affairs issued this solicitation, a single copy of specifications, standards, and commercial item

descriptions cited in this solicitation may be obtained free of charge by submitting a request to the addressee in paragraph (i)(1)(i) of this provision. Additional copies will be issued for a fee.

(2) Most unclassified Defense specifications and standards may be downloaded from the following ASSIST websites:

(i) ASSIST (<https://assist.dla.mil/online/start/>);

(ii) Quick Search (<http://quicksearch.dla.mil/>);

(iii) ASSISTdocs.com (<http://assistdocs.com>).

(3) Documents not available from ASSIST may be ordered from the Department of Defense Single Stock Point (DoDSSP) by?

(i) Using the ASSIST Shopping Wizard (<https://assist.dla.mil/wizard/index.cfm>);

(ii) Phoning the DoDSSP Customer Service Desk (215) 697-2179, Mon-Fri, 0730 to 1600 EST; or

(iii) Ordering from DoDSSP, Building 4, Section D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Telephone (215) 697-2667/2179, Facsimile (215) 697-1462.

(4) Nongovernment (voluntary) standards must be obtained from the organization responsible for their preparation, publication, or maintenance.

(j) *Data Universal Numbering System (DUNS) Number.* (Applies to all offers exceeding \$3,100, and offers of \$3,100 or less if the solicitation requires the Contractor to be registered in the System for Award Management (SAM) database. The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation "DUNS" or "DUNS +4" followed by the DUNS or DUNS +4 number that identifies the offeror's name and address. The DUNS +4 is the DUNS number plus a 4-character suffix that may be assigned at the discretion of the offeror to establish additional SAM records for identifying alternative Electronic Funds Transfer (EFT) accounts (see FAR Subpart 32.11) for the same concern. If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one. An offeror within the United States may contact Dun and Bradstreet by calling 1-866-705-5711 or via the internet at <http://www.fedgov.dnb.com/webform>. An offeror located outside the United States must contact the local Dun and Bradstreet office for a DUNS number. The offeror should indicate that it is an offeror for a Government contract when contacting the local Dun and Bradstreet office.

(k) *System for Award Management.* Unless exempted by an addendum to this solicitation, by submission of an offer, the offeror acknowledges the requirement that a prospective awardee shall be registered in the SAM database prior to award, during performance and through final payment of any contract resulting from this solicitation. If the Offeror does not become registered in the SAM database in the time prescribed by the Contracting Officer, the Contracting Officer will proceed to award to the next otherwise successful registered Offeror. Offerors may obtain information on registration and annual confirmation requirements via the SAM database accessed through <https://www.acquisition.gov>.

(l) *Debriefing.* If a post-award debriefing is given to requesting offerors, the Government shall disclose the following information, if applicable:

(1) The agency's evaluation of the significant weak or deficient factors in the debriefed offeror's offer.

(2) The overall evaluated cost or price and technical rating of the successful and the debriefed offeror and past performance information on the debriefed offeror.

(3) The overall ranking of all offerors, when any ranking was developed by the agency during source selection.

(4) A summary of the rationale for award;

(5) For acquisitions of commercial items, the make and model of the item to be delivered by the successful offeror.

(6) Reasonable responses to relevant questions posed by the debriefed offeror as to whether source-selection procedures set forth in the solicitation, applicable regulations, and other applicable authorities were followed by the agency.

(End of Provision)

E.5 52.212-3 OFFEROR REPRESENTATIONS AND CERTIFICATIONS— COMMERCIAL ITEMS (MAR 2015)

The offeror shall complete only paragraph (b) of this provision if the offeror has completed the annual representations and certifications electronically via <http://www.acquisition.gov>. If an offeror has not completed the annual representations and certifications electronically at the System for Award Management (SAM) website, the offeror shall complete only paragraphs (c) through (p) of this provision.

(a) *Definitions.* As used in this provision—

“Economically disadvantaged women-owned small business (EDWOSB) concern” means a small business concern that is at least 51 percent directly and unconditionally owned by, and the management and daily business operations of which are controlled by, one or more women who are citizens of the United States and who are economically disadvantaged in accordance with 13 CFR part 127. It automatically qualifies as a women-owned small business eligible under the WOSB Program.

“Forced or indentured child labor” means all work or service—

(1) Exacted from any person under the age of 18 under the menace of any penalty for its nonperformance and for which the worker does not offer himself voluntarily; or

(2) Performed by any person under the age of 18 pursuant to a contract the enforcement of which can be accomplished by process or penalties.

“Highest-level owner” means the entity that owns or controls an immediate owner of the offeror, or that owns or controls one or more entities that control an immediate owner of the offeror. No entity owns or exercises control of the highest level owner.

“Immediate owner” means an entity, other than the offeror, that has direct control of the offeror. Indicators of control include, but are not limited to, one or more of the following: Ownership or interlocking management, identity of interests among family members, shared facilities and equipment, and the common use of employees.

“Inverted domestic corporation” means a foreign incorporated entity that meets the definition of an inverted domestic corporation under 6 U.S.C. 395(b), applied in accordance with the rules and definitions of 6 U.S.C. 395(c).

“Manufactured end product” means any end product in product and service codes (PSCs) 1100-9999, except—

- (1) PSC 5510, Lumber and Related Basic Wood Materials;
- (2) Product or Service Group (PSG) 87, Agricultural Supplies;
- (3) PSG 88, Live Animals;
- (4) PSG 89, Subsistence;
- (5) PSC 9410, Crude Grades of Plant Materials;
- (6) PSC 9430, Miscellaneous Crude Animal Products, Inedible;
- (7) PSC 9440, Miscellaneous Crude Agricultural and Forestry Products;
- (8) PSC 9610, Ores;
- (9) PSC 9620, Minerals, Natural and Synthetic; and
- (10) PSC 9630, Additive Metal Materials.

“Place of manufacture” means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

“Restricted business operations” means business operations in Sudan that include power production activities, mineral extraction activities, oil-related activities, or the production of military equipment, as those terms are defined in the Sudan Accountability and Divestment Act of 2007 (Pub. L. 110-174). Restricted business operations do not include business operations that the person (as that term is defined in Section 2 of the Sudan Accountability and Divestment Act of 2007) conducting the business can demonstrate—

- (1) Are conducted under contract directly and exclusively with the regional government of southern Sudan;
- (2) Are conducted pursuant to specific authorization from the Office of Foreign Assets Control in the Department of the Treasury, or are expressly exempted under Federal law from the requirement to be conducted under such authorization;
- (3) Consist of providing goods or services to marginalized populations of Sudan;
- (4) Consist of providing goods or services to an internationally recognized peacekeeping force or humanitarian organization;
- (5) Consist of providing goods or services that are used only to promote health or education; or

(6) Have been voluntarily suspended.

“Sensitive technology”—

(1) Means hardware, software, telecommunications equipment, or any other technology that is to be used specifically—

(i) To restrict the free flow of unbiased information in Iran; or

(ii) To disrupt, monitor, or otherwise restrict speech of the people of Iran; and

(2) Does not include information or informational materials the export of which the President does not have the authority to regulate or prohibit pursuant to section 203(b)(3) of the International Emergency Economic Powers Act (50 U.S.C. 1702(b)(3)).

“Service-disabled veteran-owned small business concern”—

(1) Means a small business concern—

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

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

“Small business concern” means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and size standards in this solicitation.

“Small disadvantaged business concern”, consistent with 13 CFR 124.1002, means a small business concern under the size standard applicable to the acquisition, that—

(1) Is at least 51 percent unconditionally and directly owned (as defined at 13 CFR 124.105) by—

(i) One or more socially disadvantaged (as defined at 13 CFR 124.103) and economically disadvantaged (as defined at 13 CFR 124.104) individuals who are citizens of the United States; and

(ii) Each individual claiming economic disadvantage has a net worth not exceeding \$750,100 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and

(2) The management and daily business operations of which are controlled (as defined at 13.CFR 124.106) by individuals, who meet the criteria in paragraphs (1)(i) and (ii) of this definition.

“Subsidiary” means an entity in which more than 50 percent of the entity is owned—

(1) Directly by a parent corporation; or

(2) Through another subsidiary of a parent corporation.

“Veteran-owned small business concern” means a small business concern—

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

“Women-owned business concern” means a concern which is at least 51 percent owned by one or more women; or in the case of any publicly owned business, at least 51 percent of its stock is owned by one or more women; and whose management and daily business operations are controlled by one or more women.

“Women-owned small business concern” means a small business concern—

(1) That is at least 51 percent owned by one or more women; or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

(2) Whose management and daily business operations are controlled by one or more women.

“Women-owned small business (WOSB) concern eligible under the WOSB Program” (in accordance with 13 CFR part 127), means a small business concern that is at least 51 percent directly and unconditionally owned by, and the management and daily business operations of which are controlled by, one or more women who are citizens of the United States.

(b)(1) *Annual Representations and Certifications.* Any changes provided by the offeror in paragraph (b)(2) of this provision do not automatically change the representations and certifications posted on the SAM website.

(2) The offeror has completed the annual representations and certifications electronically via the SAM website access through <http://www.acquisition.gov>. After reviewing the SAM database information, the offeror verifies by submission of this offer that the representations and certifications currently posted electronically at FAR 52.212-3, Offeror Representations and Certifications—Commercial Items, have been entered or updated in the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201), except for paragraphs .

(c) Offerors must complete the following representations when the resulting contract will be performed in the United States or its outlying areas. Check all that apply.

(1) *Small business concern.* The offeror represents as part of its offer that it [] is, [] is not a small business concern.

(2) *Veteran-owned small business concern.* [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents as part of its offer that it [] is, [] is not a veteran-owned small business concern.

(3) *Service-disabled veteran-owned small business concern.* [Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (c)(2) of this provision.] The offeror

represents as part of its offer that it [] is, [] is not a service-disabled veteran-owned small business concern.

(4) *Small disadvantaged business concern.* [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents that it [] is, [] is not a small disadvantaged business concern as defined in 13 CFR 124.1002.

(5) *Women-owned small business concern.* [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents that it [] is, [] is not a women-owned small business concern.

(6) WOSB concern eligible under the WOSB Program. [Complete only if the offeror represented itself as a women-owned small business concern in paragraph (c)(5) of this provision.] The offeror represents that—

(i) It [] is, [] is not a WOSB concern eligible under the WOSB Program, has provided all the required documents to the WOSB Repository, and no change in circumstances or adverse decisions have been issued that affects its eligibility; and

(ii) It [] is, [] is not a joint venture that complies with the requirements of 13 CFR part 127, and the representation in paragraph (c)(6)(i) of this provision is accurate for each WOSB concern eligible under the WOSB Program participating in the joint venture. [The offeror shall enter the name or names of the WOSB concern eligible under the WOSB Program and other small businesses that are participating in the joint venture: _____.] Each WOSB concern eligible under the WOSB Program participating in the joint venture shall submit a separate signed copy of the WOSB representation.

(7) Economically disadvantaged women-owned small business (EDWOSB) concern. [Complete only if the offeror represented itself as a WOSB concern eligible under the WOSB Program in (c)(6) of this provision.] The offeror represents that—

(i) It [] is, [] is not an EDWOSB concern, has provided all the required documents to the WOSB Repository, and no change in circumstances or adverse decisions have been issued that affects its eligibility; and

(ii) It [] is, [] is not a joint venture that complies with the requirements of 13 CFR part 127, and the representation in paragraph (c)(7)(i) of this provision is accurate for each EDWOSB concern participating in the joint venture. [The offeror shall enter the name or names of the EDWOSB concern and other small businesses that are participating in the joint venture: _____.] Each EDWOSB concern participating in the joint venture shall submit a separate signed copy of the EDWOSB representation.

Note: Complete paragraphs (c)(8) and (c)(9) only if this solicitation is expected to exceed the simplified acquisition threshold.

(8) *Women-owned business concern (other than small business concern).* [Complete only if the offeror is a women-owned business concern and did not represent itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents that it [] is a women-owned business concern.

(9) *Tie bid priority for labor surplus area concerns.* If this is an invitation for bid, small business offerors may identify the labor surplus areas in which costs to be incurred on account of manufacturing or production (by offeror or first-tier subcontractors) amount to more than 50 percent of the contract price:

(10) *HUBZone small business concern.* [Complete only if the offeror represented itself as a small business concern in paragraph (c)(1) of this provision.] The offeror represents, as part of its offer, that—

(i) It [] is, [] is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR Part 126; and

(ii) It [] is, [] is not a joint venture that complies with the requirements of 13 CFR Part 126, and the representation in paragraph (c)(10)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. [The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture:_____.] Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.

(d) Representations required to implement provisions of Executive Order 11246—

(1) *Previous contracts and compliance.* The offeror represents that—

(i) It [] has, [] has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation; and

(ii) It [] has, [] has not filed all required compliance reports.

(2) *Affirmative Action Compliance.* The offeror represents that—

(i) It [] has developed and has on file, [] has not developed and does not have on file, at each establishment, affirmative action programs required by rules and regulations of the Secretary of Labor (41 CFR parts 60-1 and 60-2), or

(ii) It [] has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

(e) *Certification Regarding Payments to Influence Federal Transactions* (31 U.S.C. 1352). (Applies only if the contract is expected to exceed \$150,100.) By submission of its offer, the offeror certifies to the best of its knowledge and belief that no Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress or an employee of a Member of Congress on his or her behalf in connection with the award of any resultant contract. If any registrants under the Lobbying Disclosure Act of 1995 have made a lobbying contact on behalf of the offeror with respect to this contract, the offeror shall complete and submit, with its offer, OMB Standard Form LLL, Disclosure of Lobbying Activities, to provide the name of the registrants. The offeror need not report regularly

employed officers or employees of the offeror to whom payments of reasonable compensation were made.

(f) *Buy American Certificate.* (Applies only if the clause at Federal Acquisition Regulation (FAR) 52.225-1, Buy American—Supplies, is included in this solicitation.)

(1) The offeror certifies that each end product, except those listed in paragraph (f)(2) of this provision, is a domestic end product and that for other than COTS items, the offeror has considered components of unknown origin to have been mined, produced, or manufactured outside the United States. The offeror shall list as foreign end products those end products manufactured in the United States that do not qualify as domestic end products, i.e., an end product that is not a COTS item and does not meet the component test in paragraph (2) of the definition of “domestic end product.” The terms “commercially available off-the-shelf (COTS) item,” “component,” “domestic end product,” “end product,” “foreign end product,” and “United States” are defined in the clause of this solicitation entitled “Buy American—Supplies.”

(2) Foreign End Products:

Line Item No	Country of Origin
_____	_____
_____	_____
_____	_____

[List as necessary]

(3) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25.

(g)(1) *Buy American—Free Trade Agreements—Israeli Trade Act Certificate.* (Applies only if the clause at FAR 52.225-3, Buy American—Free Trade Agreements—Israeli Trade Act, is included in this solicitation.)

(i) The offeror certifies that each end product, except those listed in paragraph (g)(1)(ii) or (g)(1)(iii) of this provision, is a domestic end product and that for other than COTS items, the offeror has considered components of unknown origin to have been mined, produced, or manufactured outside the United States. The terms “Bahrainian, Moroccan, Omani, Panamanian, or Peruvian end product,” “commercially available off-the-shelf (COTS) item,” “component,” “domestic end product,” “end product,” “foreign end product,” “Free Trade Agreement country,” “Free Trade Agreement country end product,” “Israeli end product,” and “United States” are defined in the clause of this solicitation entitled “Buy American—Free Trade Agreements—Israeli Trade Act.”

(ii) The offeror certifies that the following supplies are Free Trade Agreement country end products (other than Bahrainian, Moroccan, Omani, Panamanian, or Peruvian end products) or Israeli end products as defined in the clause of this solicitation entitled “Buy American—Free Trade Agreements—Israeli Trade Act”:

Free Trade Agreement Country End Products (Other than Bahrainian, Moroccan, Omani, Panamanian, or Peruvian End Products) or Israeli End Products:

Line Item No.	Country of Origin
_____	_____
_____	_____
_____	_____

[List as necessary]

(iii) The offeror shall list those supplies that are foreign end products (other than those listed in paragraph (g)(1)(ii) of this provision) as defined in the clause of this solicitation entitled “Buy American—Free Trade Agreements—Israeli Trade Act.” The offeror shall list as other foreign end products those end products manufactured in the United States that do not qualify as domestic end products, i.e., an end product that is not a COTS item and does not meet the component test in paragraph (2) of the definition of “domestic end product.”

Other Foreign End Products:

Line Item No.	Country of Origin
_____	_____
_____	_____
_____	_____

[List as necessary]

(iv) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25.

(2) *Buy American—Free Trade Agreements—Israeli Trade Act Certificate, Alternate I.* If Alternate I to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g)(1)(ii) for paragraph (g)(1)(ii) of the basic provision:

(g)(1)(ii) The offeror certifies that the following supplies are Canadian end products as defined in the clause of this solicitation entitled “Buy American—Free Trade Agreements—Israeli Trade Act”:

Canadian End Products:

Line Item No.

[List as necessary]

(3) *Buy American—Free Trade Agreements—Israeli Trade Act Certificate, Alternate II.* If Alternate II to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g)(1)(ii) for paragraph (g)(1)(ii) of the basic provision:

(g)(1)(ii) The offeror certifies that the following supplies are Canadian end products or Israeli end products as defined in the clause of this solicitation entitled “Buy American—Free Trade Agreements—Israeli Trade Act”:

Canadian or Israeli End Products:

Line Item No.	Country of Origin
_____	_____
_____	_____
_____	_____

[List as necessary]

(4) *Buy American—Free Trade Agreements—Israeli Trade Act Certificate, Alternate III.* If Alternate III to the clause at FAR 52.225-3 is included in this solicitation, substitute the following paragraph (g)(1)(ii) for paragraph (g)(1)(ii) of the basic provision:

(g)(1)(ii) The offeror certifies that the following supplies are Free Trade Agreement country end products (other than Bahrainian, Korean, Moroccan, Omani, Panamanian, or Peruvian end products) or Israeli end products as defined in the clause of this solicitation entitled “Buy American—Free Trade Agreements—Israeli Trade Act”:

Free Trade Agreement Country End Products (Other than Bahrainian, Korean, Moroccan, Omani, Panamanian, or Peruvian End Products) or Israeli End Products:

Line Item No.	Country of Origin
_____	_____
_____	_____
_____	_____

[List as necessary]

(5) *Trade Agreements Certificate.* (Applies only if the clause at FAR 52.225-5, Trade Agreements, is included in this solicitation.)

(i) The offeror certifies that each end product, except those listed in paragraph (g)(5)(ii) of this provision, is a U.S.-made or designated country end product, as defined in the clause of this solicitation entitled “Trade Agreements”.

(ii) The offeror shall list as other end products those end products that are not U.S.-made or designated country end products.

Other End Products:

Line Item No.	Country of Origin
_____	_____
_____	_____
_____	_____

[List as necessary]

(iii) The Government will evaluate offers in accordance with the policies and procedures of FAR Part 25. For line items covered by the WTO GPA, the Government will evaluate offers of U.S.-made or designated country end products without regard to the restrictions of the Buy American statute. The Government will consider for award only offers of U.S.-made or designated country end products unless the Contracting Officer determines that there are no offers for such products or that the offers for such products are insufficient to fulfill the requirements of the solicitation.

(h) *Certification Regarding Responsibility Matters* (Executive Order 12689). (Applies only if the contract value is expected to exceed the simplified acquisition threshold.) The offeror certifies, to the best of its knowledge and belief, that the offeror and/or any of its principals—

(1) Are, are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;

(2) Have, have not, within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a Federal, state or local government contract or subcontract; violation of Federal or state antitrust statutes relating to the submission of offers; or Commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, tax evasion, violating Federal criminal tax laws, or receiving stolen property;

(3) Are, are not presently indicted for, or otherwise criminally or civilly charged by a Government entity with, commission of any of these offenses enumerated in paragraph (h)(2) of this clause; and

(4) Have, have not, within a three-year period preceding this offer, been notified of any delinquent Federal taxes in an amount that exceeds \$3,100 for which the liability remains unsatisfied.

(i) Taxes are considered delinquent if both of the following criteria apply:

(A) *The tax liability is finally determined.* The liability is finally determined if it has been assessed. A liability is not finally determined if there is a pending administrative or judicial challenge. In the case of a judicial challenge to the liability, the liability is not finally determined until all judicial appeal rights have been exhausted.

(B) *The taxpayer is delinquent in making payment.* A taxpayer is delinquent if the taxpayer has failed to pay the tax liability when full payment was due within and required. A taxpayer is not delinquent in cases where enforced collection action is precluded.

(ii) *Examples.*

(A) The taxpayer has received a statutory notice of deficiency, under I.R.C. Sec. 6212, which entitles the taxpayer to seek Tax Court review of a proposed tax deficiency. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek Tax Court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

(B) The IRS has filed a notice of Federal tax lien with respect to an assessed tax liability, and the taxpayer has been issued a notice under I.R.C. Sec. 6320 entitling the taxpayer to request a hearing with the IRS Office of Appeals contesting the lien filing, and to further appeal to the Tax Court if the IRS determines to sustain the lien filing. In the course of the hearing, the taxpayer is entitled to contest the underlying tax liability because the taxpayer has had no prior opportunity to contest the liability. This is not a delinquent tax because it is not a final tax liability. Should the taxpayer seek tax court review, this will not be a final tax liability until the taxpayer has exercised all judicial appeal rights.

(C) The taxpayer has entered into an installment agreement pursuant to I.R.C. Sec. 6159. The taxpayer is making timely payments and is in full compliance with the agreement terms. The taxpayer is not delinquent because the taxpayer is not currently required to make full payment.

(D) The taxpayer has filed for bankruptcy protection. The taxpayer is not delinquent because enforced collection action is stayed under 11 U.S.C. 362 (the Bankruptcy Code).

(i) *Certification Regarding Knowledge of Child Labor for Listed End Products (Executive Order 13126).*

(1) *Listed end products.*

Listed End Product	Listed Countries of Origin
--------------------	----------------------------

(2) *Certification. [If the Contracting Officer has identified end products and countries of origin in paragraph (i)(1) of this provision, then the offeror must certify to either (i)(2)(i) or (i)(2)(ii) by checking the appropriate block.]*

[] (i) The offeror will not supply any end product listed in paragraph (i)(1) of this provision that was mined, produced, or manufactured in the corresponding country as listed for that product.

[] (ii) The offeror may supply an end product listed in paragraph (i)(1) of this provision that was mined, produced, or manufactured in the corresponding country as listed for that product. The offeror certifies that it has made a good faith effort to determine whether forced or indentured child labor was used to mine, produce, or manufacture any such end product furnished under this contract. On the basis of those efforts, the offeror certifies that it is not aware of any such use of child labor.

(j) *Place of manufacture.* (Does not apply unless the solicitation is predominantly for the acquisition of manufactured end products.) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly—

(1) In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or

(2) Outside the United States.

(k) *Certificates regarding exemptions from the application of the Service Contract Labor Standards.* (Certification by the offeror as to its compliance with respect to the contract also constitutes its certification as to compliance by its subcontractor if it subcontracts out the exempt services.)

(1) Maintenance, calibration, or repair of certain equipment as described in FAR 22.1003-4(c)(1). The offeror does does not certify that—

(i) The items of equipment to be serviced under this contract are used regularly for other than Governmental purposes and are sold or traded by the offeror (or subcontractor in the case of an exempt subcontract) in substantial quantities to the general public in the course of normal business operations;

(ii) The services will be furnished at prices which are, or are based on, established catalog or market prices (see FAR 22.1003- 4(c)(2)(ii)) for the maintenance, calibration, or repair of such equipment; and

(iii) The compensation (wage and fringe benefits) plan for all service employees performing work under the contract will be the same as that used for these employees and equivalent employees servicing the same equipment of commercial customers.

(2) Certain services as described in FAR 22.1003- 4(d)(1). The offeror does does not certify that—

(i) The services under the contract are offered and sold regularly to non-Governmental customers, and are provided by the offeror (or subcontractor in the case of an exempt subcontract) to the general public in substantial quantities in the course of normal business operations;

(ii) The contract services will be furnished at prices that are, or are based on, established catalog or market prices (see FAR 22.1003-4(d)(2)(iii));

(iii) Each service employee who will perform the services under the contract will spend only a small portion of his or her time (a monthly average of less than 20 percent of the available hours on an annualized basis, or less than 20 percent of available hours during the contract period if the contract period is less than a month) servicing the Government contract; and

(iv) The compensation (wage and fringe benefits) plan for all service employees performing work under the contract is the same as that used for these employees and equivalent employees servicing commercial customers.

(3) If paragraph (k)(1) or (k)(2) of this clause applies—

(i) If the offeror does not certify to the conditions in paragraph (k)(1) or (k)(2) and the Contracting Officer did not attach a Service Contract Labor Standards wage determination to the solicitation, the offeror shall notify the Contracting Officer as soon as possible; and

(ii) The Contracting Officer may not make an award to the offeror if the offeror fails to execute the certification in paragraph (k)(1) or (k)(2) of this clause or to contact the Contracting Officer as required in paragraph (k)(3)(i) of this clause.

(l) *Taxpayer Identification Number (TIN)* (26 U.S.C. 6109, 31 U.S.C. 7701). (Not applicable if the offeror is required to provide this information to the SAM database to be eligible for award.)

(1) All offerors must submit the information required in paragraphs (l)(3) through (l)(5) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the Internal Revenue Service (IRS).

(2) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(3) *Taxpayer Identification Number (TIN)*.

TIN: _____.

TIN has been applied for.

TIN is not required because:

Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

Offeror is an agency or instrumentality of a foreign government;

Offeror is an agency or instrumentality of the Federal Government.

(4) *Type of organization*.

Sole proprietorship;

Partnership;

Corporate entity (not tax-exempt);

Corporate entity (tax-exempt);

Government entity (Federal, State, or local);

Foreign government;

International organization per 26 CFR 1.6049-4;

Other _____.

(5) *Common parent*.

[] Offeror is not owned or controlled by a common parent;

[] Name and TIN of common parent:

Name _____.

TIN _____.

(m) *Restricted business operations in Sudan.* By submission of its offer, the offeror certifies that the offeror does not conduct any restricted business operations in Sudan.

(n) *Prohibition on Contracting with Inverted Domestic Corporations.*

(1) Government agencies are not permitted to use appropriated (or otherwise made available) funds for contracts with either an inverted domestic corporation, or a subsidiary of an inverted domestic corporation, unless the exception at 9.108-2(b) applies or the requirement is waived in accordance with the procedures at 9.108-4.

(2) Representation. By submission of its offer, the offeror represents that—

(i) It is not an inverted domestic corporation; and

(ii) It is not a subsidiary of an inverted domestic corporation.

(o) *Prohibition on contracting with entities engaging in certain activities or transactions relating to Iran.*

(1) The offeror shall email questions concerning sensitive technology to the Department of State at CISADA106@state.gov.

(2) *Representation and certifications.* Unless a waiver is granted or an exception applies as provided in paragraph (o)(3) of this provision, by submission of its offer, the offeror—

(i) Represents, to the best of its knowledge and belief, that the offeror does not export any sensitive technology to the government of Iran or any entities or individuals owned or controlled by, or acting on behalf or at the direction of, the government of Iran;

(ii) Certifies that the offeror, or any person owned or controlled by the offeror, does not engage in any activities for which sanctions may be imposed under section 5 of the Iran Sanctions Act; and

(iii) Certifies that the offeror, and any person owned or controlled by the offeror, does not knowingly engage in any transaction that exceeds \$3,100 with Iran's Revolutionary Guard Corps or any of its officials, agents, or affiliates, the property and interests in property of which are blocked pursuant to the International Emergency Economic Powers Act (50 U.S.C. 1701 *et seq.*) (see OFAC's Specially Designated Nationals and Blocked Persons List at <http://www.treasury.gov/ofac/downloads/t11sdn.pdf>).

(3) The representation and certification requirements of paragraph (o)(2) of this provision do not apply if—

(i) This solicitation includes a trade agreements certification (*e.g.*, 52.212–3(g) or a comparable agency provision); and

(ii) The offeror has certified that all the offered products to be supplied are designated country end products.

(p) *Ownership or Control of Offeror.* (Applies in all solicitations when there is a requirement to be registered in SAM or a requirement to have a DUNS Number in the solicitation.)

(1) The Offeror represents that it has or does not have an immediate owner. If the Offeror has more than one immediate owner (such as a joint venture), then the Offeror shall respond to paragraph (2) and if applicable, paragraph (3) of this provision for each participant in the joint venture.

(2) If the Offeror indicates “has” in paragraph (p)(1) of this provision, enter the following information:

Immediate owner CAGE code:

Immediate owner legal name:

(Do not use a “doing business as” name)

Is the immediate owner owned or controlled by another entity: Yes or No.

(3) If the Offeror indicates “yes” in paragraph (p)(2) of this provision, indicating that the immediate owner is owned or controlled by another entity, then enter the following information:

Highest-level owner CAGE code:

Highest-level owner legal name:

(Do not use a “doing business as” name)

(End of Provision)

E.6 52.216-1 TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a Firm-Fixed-Price contract resulting from this solicitation.

(End of Provision)

E.7 52.227-15 REPRESENTATION OF LIMITED RIGHTS DATA AND RESTRICTED COMPUTER SOFTWARE (DEC 2007)

(a) This solicitation sets forth the Government's known delivery requirements for data (as defined in the clause at 52.227-14, Rights in Data—Alternate IV). Any resulting contract may also provide the Government the option to order additional data under the Additional Data Requirements clause at 52.227-16, if included in the contract. Any data delivered under the resulting contract will be subject to the Rights in Data—52.227-14 Alternate IV included in this contract. Under the latter clause, a Contractor may

withhold from delivery data that qualify as limited rights data or restricted computer software, and deliver form, fit, and function data instead. The latter clause also may be used with its Alternates II and/or III to obtain delivery of limited rights data or restricted computer software, marked with limited rights or restricted rights notices, as appropriate. In addition, use of Alternate V with this latter clause provides the Government the right to inspect such data at the Contractor's facility.

(b) By completing the remainder of this paragraph, the offeror represents that it has reviewed the requirements for the delivery of technical data or computer software and states [offeror check appropriate block]—

[] None of the data proposed for fulfilling the data delivery requirements qualifies as limited rights data or restricted computer software; or

[] Data proposed for fulfilling the data delivery requirements qualify as limited rights data or restricted computer software and are identified as follows:

(c) Any identification of limited rights data or restricted computer software in the offeror's response is not determinative of the status of the data should a contract be awarded to the offeror.

(End of Provision)

E.8 52.233-2 SERVICE OF PROTEST (SEP 2006)

Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from:

Hand-Carried /Mailing Address:

Department of Veterans Affairs
Technology Acquisition Center
23 Christopher Way
Eatontown NJ 07724

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

(End of Provision)

E.9 VAAR 852.233-70 PROTEST CONTENT/ALTERNATIVE DISPUTE RESOLUTION (JAN 2008)

(a) Any protest filed by an interested party shall:

- (1) Include the name, address, fax number, and telephone number of the protester;
 - (2) Identify the solicitation and/or contract number;
 - (3) Include an original signed by the protester or the protester's representative and at least one copy;
 - (4) Set forth a detailed statement of the legal and factual grounds of the protest, including a description of resulting prejudice to the protester, and provide copies of relevant documents;
 - (5) Specifically request a ruling of the individual upon whom the protest is served;
 - (6) State the form of relief requested; and
 - (7) Provide all information establishing the timeliness of the protest.
- (b) Failure to comply with the above may result in dismissal of the protest without further consideration.
- (c) Bidders/offerors and contracting officers are encouraged to use alternative dispute resolution (ADR) procedures to resolve protests at any stage in the protest process. If ADR is used, the Department of Veterans Affairs will not furnish any documentation in an ADR proceeding beyond what is allowed by the Federal Acquisition Regulation.

(End of Provision)

E.10 VAAR 852.233-71 ALTERNATE PROTEST PROCEDURE (JAN 1998)

As an alternative to filing a protest with the contracting officer, an interested party may file a protest with the Deputy Assistant Secretary for Acquisition and Materiel Management, Acquisition Administration Team, Department of Veterans Affairs, 810 Vermont Avenue, NW., Washington, DC 20420, or for solicitations issued by the Office of Construction and Facilities Management, the Director, Office of Construction and Facilities Management, 810 Vermont Avenue, NW., Washington, DC 20420. The protest will not be considered if the interested party has a protest on the same or similar issues pending with the contracting officer.

(End of Provision)

PLEASE NOTE: The correct mailing information for filing alternate protests is as follows:

Deputy Assistant Secretary for Acquisition and Logistics,
Risk Management Team, Department of Veterans Affairs
810 Vermont Avenue, N.W.
Washington, DC 20420

Or for solicitations issued by the Office of Construction and Facilities Management:

Director, Office of Construction and Facilities Management
811 Vermont Avenue, N.W.
Washington, DC 20420

**E.11 VAAR 852.270-1 REPRESENTATIVES OF CONTRACTING OFFICERS
(JAN 2008)**

The contracting officer reserves the right to designate representatives to act for him/her in furnishing technical guidance and advice or generally monitor the work to be performed under this contract. Such designation will be in writing and will define the scope and limitation of the designee's authority. A copy of the designation shall be furnished to the contractor.

(End of Provision)

**E.12 NOTIFICATION OF SATISFACTION SURVEY: ACQUISITION 360
(JULY 2015)**

- (a) This acquisition has been identified as being a complex information technology (IT) development, systems, or services. As a result, your company may receive a survey pursuant to the Office of Management and Budget's (OMB) memorandum dated March 18, 2015 entitled, Acquisition 360 – Improving the Acquisition Process through Timely Feedback from External and Internal Stakeholders. The survey will ask your company to rate various aspects of the acquisition process, such as the strength of the requirements development process, the clarity of the solicitation, and the effectiveness of the agency in executing awards and debriefing offerors. The overall goal of the survey is to help the agency identify strengths and weaknesses with industry partnerships so that it can make internal improvements on the planning and making of contract awards.
- (b) The Federal Government may not conduct or sponsor, and the public is not required to respond to, a collection of information that does not display a currently valid OMB control number. The OMB control number for this collection is 1505-0231. If your company receives a survey, your company is strongly encouraged, but not required to respond. The survey should take no more than ten (10) minutes to complete. The results of the surveys will be submitted to the agency's senior procurement officials in order to identify best practices and areas in need of improvement, necessary to strengthen the agency's acquisition practices.
- (c) Should you have any question regarding the survey process, contact the contracting officer responsible for the identified IT acquisition.

(End of provision)