

## Attachment 13: GSA CIO IT Security 09-48 Excerpts Revision 4 Updates dated January 25, 2018

### 2 Internal Contractor or Government Information Systems - IT Security Requirements

- **Required Policies and Regulations for GSA Contracts**

Contractors are required to comply with Federal Information Processing Standards (FIPS), the “*Special Publications 800 series*” guidelines published by NIST. Federal Information Processing Standards (FIPS) publication requirements are mandatory for use. NIST special publications (800 Series) are guidance, unless required by a FIPS publication, in which case usage is mandatory. Contractors are subject to the latest revisions of the publications below.

- FIPS PUB 199, “*Standards for Security Categorization of Federal Information and Information Systems*”
- FIPS PUB 200, “*Minimum Security Requirements for Federal Information and Information Systems*”
- FIPS PUB 140-2, “*Security Requirements for Cryptographic Modules*”
- NIST Special Publication 800-18 Revision 1, “*Guide for Developing Security Plans for Federal Information Systems*”
- NIST Special Publication 800-30 Revision 1, “*Guide for Conducting Risk Assessments*”
- NIST Special Publication 800-34 Revision 1, “*Contingency Planning Guide for Federal Information Systems*”
- NIST Special Publication 800-37 Revision 1, “*Guide for Applying the Risk Management Framework to Federal Information Systems: A Security Lifecycle Approach*”
- NIST Special Publication 800-47, “*Security Guide for Interconnecting Information Technology Systems*”
- NIST Special Publication 800-53 Revision 4, “*Security and Privacy Controls for Federal Information Systems and Organizations*”
- NIST Special Publication 800-53A Revision 4, “*Assessing Security and Privacy Controls in Federal Information Systems and Organizations: Building Effective Assessment Plans*”
- NIST Special Publication 800-63-3, “*Digital Identity Guidelines*”
- NIST Special Publication 800-122, “*Guide to Protecting the Confidentiality of Personally Identifiable Information (PII)*”
- NIST Special Publication 800-137, “*Information Security Continuous Monitoring (ISCM) for Federal Information Systems and Organizations*”

GSA Policies:

The contractor shall comply with the following GSA Directives/Policies.

- GSA Order CIO 1878.1, “*GSA Privacy Act Program*”
- GSA Order CIO 1878.2, “*Conducting Privacy Impact Assessments (PIAs) in GSA*”
- GSA Order CIO 2100.1, “*GSA Information Technology (IT) Security Policy*”
- GSA Order CIO 9297.2, “*GSA Information Breach Notification Policy*”

The GSA policies listed in this paragraph must be followed, if applicable.

- GSA Order CIO 2103.1, “*Controlled Unclassified Information (CUI) Policy*”
- GSA Order CIO 2104.1, “*GSA Information Technology (IT) General Rules of Behavior*”
- GSA Order CIO 2182.2, “*Mandatory Use of Personal Identity Verification (PIV) Credentials*”

GSA Procedural Guides:

GSA IT Procedural Guides are guidance, unless required by a GSA Directive/Policy, in which case usage is mandatory.

Note: GSA's Procedural Guides are updated frequently; to make sure you have the most recent

version of publicly available procedural guides, visit GSA.gov. If a non-publicly available guide is needed, contact the contracting officer who will coordinate with the GSA Office of the Chief Information Security Officer to determine if it can be made available.

- **GSA Security Compliance Requirements**

FIPS PUB 200, “Minimum Security Requirements for Federal Information and Information Systems”, is a mandatory federal standard that defines the minimum security requirements for federal information and information systems in seventeen security-related areas. Contractor systems supporting GSA must meet the minimum security requirements through the use of the security controls in accordance with NIST Special Publication 800-53, Revision 4 (hereafter described as NIST 800-53), “*Security and Privacy Controls for Federal Information Systems and Organizations.*”

To comply with the federal standard, GSA must determine the security category of the information and information system in accordance with FIPS PUB 199, “Standards for Security Categorization of Federal Information and Information Systems”, and then the contractor shall apply the appropriately tailored set of Low, Moderate, or High impact baseline security controls in NIST 800-53, as determined by GSA. NIST 800-53 controls requiring organization-defined parameters (i.e., password change frequency) shall be consistent with GSA specifications. The GSA-specified control parameters and supplemental guidance defining more specifically the requirements per FIPS PUB 199 impact level are provided in Appendix A of this document.

The Contractor shall use GSA technical guidelines, NIST guidelines, Center for Internet Security (CIS) guidelines (Level 1), or industry best practice guidelines in hardening their systems.

- **Essential Security Controls**

All NIST 800-53 controls must be implemented as per the applicable FIPS PUB 199 Low, Moderate, or High baseline. The ensuing table identifies essential security controls from the respective baselines to highlight their importance; ensure they are implemented; and identify integration requirements with GSA’s IT and IT Security environment (if any). Contractor systems shall ensure these essential security controls are implemented. Further, the Contractor shall make the proposed system and security architecture of the information system available to the Security Engineering Division, in the Office of the Chief Information Security Officer for review and approval before commencement of system build (architecture, infrastructure, and code).

Control ID	Control Title	Baseline	GSA Implementation Guidance
AC-2	Account Management	L, M, H	
AC-17 (3)	Remote Access   Managed Access Control Points	M, H	All remote accesses from internal users/systems to the external information system must be routed through GSA’s managed network access control points, subjecting them to security monitoring.
AU-2	Audit Events	L, M, H	Information systems shall implement audit configuration requirements as documented in applicable GSA IT Security Technical Hardening Guides (i.e., hardening and technology implementation guides); for web applications see GSA IT Security Procedural Guide 07-35, Section 2.8.10, What to Log. For technologies where a Technical Guide and Standard does not exist, events from an industry source such as vendor guidance or Center for Internet Security benchmark, recommended by the GSA S/SO or Contractor to be approved and accepted by the GSA AO shall be used.

Control ID	Control Title	Baseline	GSA Implementation Guidance
CM-6	Configuration Settings	L, M, H	Information systems, including vendor owned/operated systems on behalf of GSA, shall configure their systems in agreement with GSA technical guidelines, NIST guidelines, Center for Internet Security guidelines (Level 1), or industry best practice guidelines, as deemed appropriate.
CP-7	Alternative Processing Site	M, H	FIPS PUB 199 Moderate and High impact systems must implement processing across geographically-disparate locations to ensure fault tolerance. Amazon Web Services based architectures must implement a multi-region strategy (multiple availability zones in a single region are not sufficient).
CP-8	Telecom Services	M, H	FIP 199 Moderate and High impact information systems must implement alternate telecom services to support resumption when the primary telecommunications capabilities are unavailable at either the primary or alternate processing or storage sites.
IA-2 (1)	Identification and Authentication (Organizational Users)   Network Access to Privileged Accounts	L, M, H	All information systems shall implement multi-factor authentication for privileged accounts.
IA-2 (2)	Identification and Authentication (Organizational Users)   Network Access to Non-Privileged Accounts	M, H	Information systems at the FIPS PUB 199 Moderate and High impact levels must implement multi-factor authentication for non-privileged accounts.
IA-7	Cryptographic Module Authentication	L, M, H	The information system shall implement FIPS PUB 140-2 compliant encryption modules for authentication functions. Reference: <a href="https://csrc.nist.gov/Projects/Cryptographic-Module-Validation-Program/Validated-Modules">https://csrc.nist.gov/Projects/Cryptographic-Module-Validation-Program/Validated-Modules</a>
MP-4	Media Storage	M, H	Digital media including magnetic tapes, external/removable hard drives, flash/thumb drives, diskettes, compact disks and digital video disks shall be encrypted using a FIPS PUB 140-2 certified encryption module.
MP-5	Media Transport	M, H	Digital media including magnetic tapes, external/removable hard drives, flash/thumb drives and digital video disks shall be encrypted using a FIPS PUB 140-2 certified encryption module during transport outside of controlled areas.

Control ID	Control Title	Baseline	GSA Implementation Guidance
PL-8	Information Security Architecture	M, H	All information system security architectures must be formally reviewed and approved by the Office of the Chief Information Security Officer, Security Engineering Division during the system develop/design stages of the SDLC and prior to Security Assessment and Authorization.
RA-5	Vulnerability Scanning	L, M, H	All systems must complete weekly operating system (OS) and monthly web application vulnerability scans. The most recent vulnerability scanning results shall be provided to GSA together with the quarterly POA&M submission.
SA-22	Unsupported System Components	GSA Required	All systems must be comprised of software and hardware components that are fully supported in terms of security patching for the anticipated life of the system; software must be on GSA's Enterprise Architecture IT Standards List.
SC-8 / SC-8(1)	Transmission Confidentiality and Integration	M, H	<p>Implemented encryption algorithms and cryptographic modules shall be FIPS-approved and FIPS PUB 140-2 validated, respectively.</p> <ul style="list-style-type: none"> <li>○ Digital signature encryption algorithms - Reference: <a href="https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Validation/Validation-List/DSA">https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Validation/Validation-List/DSA</a></li> <li>⊖ Block cypher encryption algorithms - Reference: <a href="https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Block-Ciphers">https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Block-Ciphers</a></li> <li>⊖ Secure hashing algorithms – Reference: <a href="https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Secure-Hashing">https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Secure-Hashing</a></li> </ul> <p>Internet accessible Websites shall implement HTTPS Only and HTTP Strict Transport Security (HSTS), reference OMB Memorandum M-15-13.</p> <p>SSL/TLS implementations shall align with GSA IT Security Procedural Guide 14-69, "SSL/TLS Implementation."</p>
SC-13	Cryptographic Protection	L, M, H	<p>Implemented encryption algorithms and cryptographic modules shall be FIPS-approved and FIPS PUB 140-2 validated, respectively.</p> <ul style="list-style-type: none"> <li>○ Digital signature encryption algorithms - Reference: <a href="https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Validation/Validation-List/DSA">https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Validation/Validation-List/DSA</a></li> <li>○ Block cypher encryption algorithms - Reference: <a href="https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Block-Ciphers">https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Block-Ciphers</a></li> <li>○ Secure hashing algorithms – Reference: <a href="https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Secure-Hashing">https://csrc.nist.gov/Projects/Cryptographic-Algorithm-Validation-Program/Secure-Hashing</a></li> </ul>

Control ID	Control Title	Baseline	GSA Implementation Guidance
SC-17	PKI Certificates	M, H	Implement appropriate creation, use, and signing of crypto certs in agreement with GSA IT Security Procedural Guide 14-69, "SSL/TLS Implementation", and NIST Special Publications 800-32, NIST 800-63.
SC-18	Mobile Code	M, H	
SC-22	Architecture and Provisioning for Name / Address Resolution Service	L, M, H	Information systems shall be Domain Name System Security Extensions (DNSSEC) compliant. Reference OMB Memorandum M-08-23, which requires all Federal Government departments and agencies that have registered and are operating second level .gov to be DNSSEC.
SC-28 (1)	Protection of Information at Rest   Cryptographic Protection	GSA Required – For systems with Personally Identifiable Information Only	System bearing PII must implement protect information at rest. At a minimum, fields bearing PII data must be encrypted with field level encryption. Encryption algorithms shall be FIPS-approved; implemented encryption modules shall be FIPS PUB 140-2 validated.
SI-2	Flaw Remediation	L, M, H	All projects and systems must be adequately tested for flaws; all Critical, High, and Moderate risk findings must be remediated prior to go-live. Post go-live, All critical and high vulnerabilities identified must be mitigated within 30 days and all moderate vulnerabilities mitigated within 90 days.
SI-3	Malicious Code Protection	L, M, H	
SI-4	Information System Monitoring	L, M, H	
SI-10	Information Input Validation	M, H	All system accepting input from end users must validate the input in accordance to industry best practices and published guidelines, including GSA IT Security Procedural Guide 07-35, "Web Application Security", and OWASP Top 10 Web Application Security Vulnerabilities.
AR-2	Privacy Impact and Risk Assessment	See note below	The contractor shall conduct a Privacy Threshold Analysis (PTA) and, if applicable, a Privacy Impact Assessment (PIA) identifying the categories of information and addressing potential risks to PII. The contractor also shall coordinate with the GSA Privacy Office concerning these documents.
AR-8	Accounting of Disclosures	See note below	The contractor shall keep an accurate accounting of disclosures of information held in any system of records under its control.
TR-2	System of Records Notices and Privacy Act	See note below	The contractor shall coordinate with the GSA Privacy Office to ensure System of Records Notices (SORNs) and Privacy Act notices on forms that collect Personally Identifiable Information (PII) are

Control ID	Control Title	Baseline	GSA Implementation Guidance
	Statements		established and kept current.
UL-1	Internal Use	See note below	The contractor shall ensure that PII is shared internally only for the authorized purpose(s) identified in the Privacy Act and/or in public notices.
UL-2	Information Sharing with Third Parties	See note below	The contractor shall coordinate with the GSA Privacy Office to ensure PII is shared in accordance with GSA requirements and agreements with third parties.

- **Assessment and Authorization (A&A) Activities**

The implementation of a new Federal Government IT system requires a formal approval process known as Assessment and Authorization (A&A). NIST Special Publication 800-37, Revision 1 (hereafter described as NIST 800-37) and GSA IT Security Procedural Guide 06-30, “*Managing Enterprise Risk*”, provide guidelines for performing the A&A process. The Contractor system/application must have a valid assessment and authorization, known as an Authority to Operate (ATO) (signed by the Federal government) before going into operation and processing GSA information. The failure to obtain and maintain a valid ATO will result in the termination of the contract. The system must have a new A&A conducted (signed by the Federal government) at least every three (3) years or at the discretion of the Authorizing Official when there is a significant change to the system’s security posture or via continuous monitoring based on GSA IT Security Procedural Guide 12-66, “*Information Security Continuous Monitoring Strategy*” that is reviewed and accepted by the GSA CISO.

### Assessing the System

1. The Contractor shall comply with Assessment and Authorization (A&A) requirements as mandated by Federal laws and policies, including making available any documentation, physical access, and logical access needed to support this requirement. The Level of Effort for the A&A is based on the System’s NIST Federal Information Processing Standard (FIPS) Publication 199 categorization. The contractor shall create, maintain and update the following A&A documentation:
  - System Security Plan (SSP) completed in agreement with NIST Special Publication 800-18, Revision 1, “*Guide for Developing Security Plans for Federal Information Systems*”. The SSP shall include as appendices required policies and procedures across 18 control families mandated per FIPS PUB 200, Rules of Behavior, and Interconnection Agreements (in agreement with NIST Special Publication 800-47, “*Security Guide for Interconnecting Information Technology Systems*”). The SSP shall include as an appendix, a completed GSA Control Tailoring worksheet included in Appendix A of this guide. The column in the workbook titled “GSA Defined Values,” shall be used to document all contractor implemented settings that are different from the GSA defined setting and where the GSA defined setting allows a contractor determined setting.
  - Contingency Plan (including Disaster Recovery Plan) completed in agreement with NIST Special Publication 800-34.
  - Contingency Plan Test Report completed in agreement with GSA IT Security Procedural Guide 06-29, “*Contingency Planning*.”
  - Incident Response Plan completed in agreement with NIST Special Publication 800-61, “*Computer Security Incident Handling Guide*” and GSA IT Security Procedural Guide 01-02, “*Incident Response*.”
  - Incident Response Test Report completed in agreement NIST Special Publication 800-61, “*Computer Security Incident Handling Guide*” and GSA IT Security Procedural Guide 01-02, “*Incident Response*.”
  - Configuration Management Plan completed in agreement with GSA IT Security Procedural Guide 01-05, “*Configuration Management*.”
  - Plan of Actions & Milestones completed in agreement with GSA IT Security Procedural Guide 09-44, “*Plan of Action and Milestones (POA&M)*.”

- Penetration Test Reports documenting the results of vulnerability analysis and exploitability of identified vulnerabilities. Note: Penetration testing is required for all FIPS PUB 199 Low impact and Moderate impact Internet accessible information systems, and all FIPS PUB 199 High impact information systems are required to complete an independent penetration test and provide an Independent Penetration Test Report documenting the results of the exercise as part of the A&A package. Reference GSA IT Security Procedural Guide 06-30, *“Managing Enterprise Risk”* and GSA IT Security Procedural Guide 11-51, *“Conducting Penetration Test Exercises”* for penetration testing guidance.
2. Information systems must be assessed and authorized every three (3) years or whenever there is a significant change to the system’s security posture in accordance with NIST Special Publication 800-37 Revision 1, *“Guide for the Security Certification and Accreditation of Federal Information Systems”*, and GSA IT Security 06-30, *“Managing Enterprise Risk”* or via continuous monitoring based on GSA CIO IT Security 12-66, *“Information Security Continuous Monitoring Strategy”* that is reviewed and accepted by the GSA CISO.
  3. At the Moderate impact level and higher, the contractor or Government (as determined in the contract) will be responsible for providing an independent Security Assessment/Risk Assessment in accordance with GSA IT Security Procedural Guide 06-30, *“Managing Enterprise Risk.”*
  4. If the Government is responsible for providing a Security Assessment/Risk Assessment and Penetration Test, the Contractor shall allow GSA employees (or GSA designated third party contractors) to conduct A&A activities to include control reviews in accordance with NIST 800-53/NIST 800-53A and GSA IT Security Procedural Guide 06-30, *“Managing Enterprise Risk.”* Review activities include but are not limited to operating system vulnerability scanning, web application scanning, and database scanning of applicable systems that support the processing, transportation, storage, or security of GSA information. This includes the general support system infrastructure.
  5. Identified gaps between required 800-53 controls and the contractor’s implementation as documented in the Security Assessment/Risk Assessment report shall be tracked for mitigation in a Plan of Action and Milestones (POA&M) document completed in accordance with GSA IT Security Procedural Guide 09-44, *“Plan of Action and Milestones (POA&M).”* Depending on the severity of the gaps, the Government may require them to be remediated before an Authorization to Operate is issued.
  6. The Contractor is responsible for mitigating all security risks found during the A&A and continuous monitoring activities. All high-risk vulnerabilities must be mitigated within 30 days and all moderate risk vulnerabilities must be mitigated within 90 days from the date vulnerabilities are formally identified. The Government will determine the risk rating of vulnerabilities.

### **Authorization of the System**

1. Upon receipt of the documentation (Security Assessment Package, (SAP)) described in GSA IT Security Procedural Guide 06-30, *“Managing Enterprise Risk.”* and NIST Special Publication 800-37 as documented above, the GSA Authorizing Official (AO) for the system (in coordination with the GSA Chief Information Security Officer (CISO), system Program Manager (PM), Information System Security Manager (ISSM), and Information System Security Officer (ISSO)) will render an authorization decision to:
  - Authorize system operation w/out any restrictions or limitations on its operation;
  - Authorize system operation w/ restriction or limitation on its operation, or;
  - Not authorize for operation.
2. The Contractor shall provide access to the Federal Government, or their designee acting as their agent, when requested, in order to verify compliance with the requirements for an Information Technology security program. At its option, the Government may choose to conduct on site surveys. The Contractor shall make appropriate personnel available for interviews and documentation during this review. If documentation is considered proprietary or sensitive, these documents may be reviewed on-site under the hosting Contractor’s supervision.

- **Reporting and Continuous Monitoring**

Maintenance of the security authorization to operate will be through continuous monitoring of security controls of the contractor's system and its environment of operation to determine if the security controls in the information system continue to be effective over time in light of changes that occur in the system and environment. Through continuous monitoring, security controls and supporting deliverables are updated and submitted to GSA per the schedules below. The submitted deliverables (or lack thereof) provide a current understanding of the security state and risk posture of the information systems. They allow GSA AOs to make credible risk-based decisions regarding the continued operations of the information systems and initiate appropriate responses as needed when changes occur.

### **Deliverables to be provided to the GSA COR/ISSO/ISSM Quarterly**

1. Vulnerability Scanning  
Reference: NIST 800-53 control RA-5  
Provide the most recent Web Application and Operating System vulnerability scan reports.
2. Plan of Action & Milestones (POA&M) Update  
Reference: NIST 800-53 control CA-5  
Provide POA&M updates in accordance with requirements and the schedule set forth in GSA CIO IT Security Procedural Guide 09-44, "*Plan of Action and Milestones (POA&M)*".

### **Deliverables to be provided to the GSA COR/ISSO/ISSM Annually**

1. Updated A&A documentation including the System Security Plan and Contingency Plan
  - a. System Security Plan  
Reference: NIST 800-53 control PL-2  
Review and update the System Security Plan annually to ensure the plan is current and accurately described implemented system controls and reflects changes to the contractor system and its environment of operation. The System Security Plan must be in accordance with NIST 800-18, Revision 1, "*Guide for Developing Security Plans.*"
  - b. Contingency Plan  
Reference: NIST 800-53 control CP-2  
Provide an annual update to the contingency plan completed in accordance with NIST 800-34, "*Contingency Planning Guide.*"
2. User Certification/Authorization Review Documents  
Reference: NIST 800-53 control AC-2  
Provide the results of the annual review and validation of system users' accounts to ensure the continued need for system access. The user certification and authorization documents will illustrate the organization establishes, activates, modifies, reviews, disables, and removes information system accounts in accordance with documented account management procedures.
3. Separation of Duties Matrix  
Reference: NIST 800-53 control AC-5  
Develop and furnish a separation of duties matrix reflecting proper segregation of duties for IT system maintenance, management, and development processes. The separation of duties matrix will be updated or reviewed on an annual basis.
4. Information Security Awareness and Training Records  
Reference: NIST 800-53 control AT-4  
Provide the results of security awareness (AT-2) and role-based information security technical training (AT-3). AT-2 requires basic security awareness training for employees and contractors that support the operation of the contractor system. AT-3 requires information security technical

training to information system security roles. Training shall be consistent with the requirements contained in C.F.R. Part 5 Subpart C (5 C.F.R 930.301) and conducted at least annually.

5. Annual FISMA Assessment  
Reference: NIST 800-53 control CA-2  
Deliver the results of the annual FISMA assessment conducted per GSA IT Security Procedural Guide 04-26, "*Federal Information Security Modernization Act (FISMA) Implementation*". Based on the controls selected for self-assessment, the GSA OCISO will provide the appropriate test cases for completion.
6. System(s) Baseline Configuration Standard Document  
Reference: NIST 800-53 control CM-2/CM-2(1)  
Provide a well-defined, documented, and up-to-date specification to which the information system is built.
7. System Configuration Settings Verification  
Reference: NIST 800-53 control CM-6/CM-6(1)  
Establish and document mandatory configuration settings for information technology products employed within the information system that reflect the most restrictive mode consistent with operational requirements. Configuration settings are the configurable security-related parameters of information technology products that compose the information system. Systems should be configured in agreement with GSA technical guidelines, NIST guidelines, Center for Internet Security guidelines (Level 1), or industry best practice guidances in hardening their systems, as deemed appropriate by the Authorizing Official.  
Provide the most recent operating system Configuration Settings Compliance scan report.
8. Configuration Management Plan  
Reference: NIST 800-53 control CM-9  
Provide an annual update to the Configuration Management Plan for the information system.
9. Contingency Plan Test Report  
Reference: NIST 800-53 control CP-4  
Provide a contingency plan test report completed in accordance with GSA IT Security Procedural Guide 06-29, "*Contingency Planning*." A continuity test shall be conducted annually prior to mid-July of each year. The continuity test can be a table top test while the system is at the "Low Impact" level. The table top test must include Federal and hosting Contractor representatives. Functional exercises must be completed once every three years for FIPS PUB 199 Moderate impact systems and annually for FIPS PUB 199 High impact systems.
10. Incident Response Test Report  
Reference: NIST 800-53 control IR-3  
Provide an incident response plan test report documenting results of incident reporting process per GSA IT Security Procedural Guide 01-02, "*Incident Response*."
11. Information System Interconnection Agreements  
Reference: NIST 800-53 control CA-3  
Provide updated Interconnection Security Agreements (ISA) and supporting Memorandum of Agreement/Understanding (MOA/U), completed in accordance with NIST 800-47, "*Security Guide for Connecting Information Technology Systems*", for existing and new interconnections. Per NIST 800-47, an interconnection is the direct connection of two or more IT systems for the purpose of sharing data and other information resources through a pipe, such as ISDN, T1, T3, DS3, VPN, etc. ISAs shall be submitted as appendices to the System Security Plan submission. ISAs shall include, if applicable, any changes since the last submission; updated ISAs are required at least every three years.

12. Rules of Behavior

Reference: NIST 800-53 control PL-4

Define and establish Rules of Behavior for information system users. Rules of Behavior shall be submitted as an appendix to the System Security Plan.

13. Penetration Testing Report

Reference: NIST 800-53 control CA-8

All internet accessible systems, and all FIPS PUB 199 High impact systems are required to complete an independent penetration test and provide a Penetration Test Report documenting the results of the exercise as part of their A&A package. Annual Penetration tests are required for these same systems in accordance with GSA Order CIO 2100.1 and CIO-IT Security-11-51, "Conducting Penetration Test Exercises."

14. Personnel Screening and Security

Reference: NIST 800-53 control PS-3, NIST 800-53 control PS-7

Furnish documentation reflecting favorable adjudication of background investigations for all personnel (including subcontractors) supporting the system. Contractors shall comply with GSA Order 2100.1 – "GSA Information Technology (IT) Security Policy" and GSA Order CIO P 2181.1 – "HSPD-12 Personal Identity Verification and Credentialing Handbook". GSA separates the risk levels for personnel working on Federal computer systems into three categories: Low Risk, Moderate Risk, and High Risk.

- Those contract personnel (hereafter known as "Applicant") determined to be in a Low Risk position will require a National Agency Check with Written Inquiries (NACI) investigation.
- Those Applicants determined to be in a Moderate Risk position will require either a Limited Background Investigation (LBI) or a Minimum Background Investigation (MBI) based on the Contracting Officer's (CO) determination.
- Those Applicants determined to be in a High Risk position will require a Background Investigation (BI).

Applicants will not be reinvestigated if a prior favorable adjudication is on file with FPS or GSA, there has been less than a one year break in service, and the position is identified at the same or lower risk level.

Once a favorable FBI Criminal History Check (Fingerprint Check) has been returned, Applicants may receive a GSA identity credential (if required) and initial access to GSA information systems. The HSPD-12 Handbook contains procedures for obtaining identity credentials and access to GSA information systems as well as procedures to be followed in case of unfavorable adjudications.

## **Deliverables to be provided to the GSA COR/ISSO/ISSM Biennially**

1. Policies and Procedures

Develop and maintain current the following policies and procedures:

- a) Access Control Policy and Procedures (NIST 800-53 AC-1)
- b) Security Awareness and Training Policy and Procedures (NIST 800-53 AT-1)
- c) Audit and Accountability Policy and Procedures (NIST 800-53 AU-1)
- d) Identification and Authentication Policy and Procedures (NIST 800-53 IA-1)
- e) Incident Response Policy and Procedures (NIST 800-53 IR-1, reporting timeframes are documented in GSA IT Security Procedural Guide 01-02, "Incident Response")
- f) System Maintenance Policy and Procedures (NIST 800-53 MA-1)
- g) Media Protection Policy and Procedures (NIST 800-53 MP-1)
- h) Physical and Environmental Policy and Procedures (NIST 800-53 PE-1)
- i) Personnel Security Policy and Procedures (NIST 800-53 PS-1)

- j) System and Information Integrity Policy and Procedures (NIST 800-53 SI-1)
- k) System and Communication Protection Policy and Procedures (NIST 800-53 SC-1)
- l) Key Management Policy (NIST 800-53 SC-12)

- **GSA Privacy Requirements**

Personally identifiable information (PII) is in the scope of the acquisition and PII is expected to be stored, processed, or transmitted in the vendor's information system. The collection, maintenance or dissemination of any PII that is subject to the Privacy Act and/or the E-Government Act will be handled in full accordance with all GSA rules of conduct and in accordance with GSA Privacy Program requirements.

The contractor shall prepare a Privacy Threshold Analysis (PTA) to confirm and document PII is not in scope, or to determine which categories of information will be stored, processed, or transmitted by the system. The PTA must be completed before development begins and whenever a change with a privacy impact (e.g., a new category of information is collected) is made to an existing system. PTAs are required as part of GSA's process to determine whether a Privacy Impact Assessment (PIA) and/or a System of Records Notice (SORN) is required, and if any other privacy requirements apply to the information system. Instructions for the PTA and PIA forms can be found at <https://www.gsa.gov/reference/gsa-privacy-program/privacyimpact-assessments-pia>.

PII (should it come into scope) will require the following guidelines be adhered to.

- The vendor's information system must be authorized at least at the FIPS PUB 199 Moderate level.
- For any system that collects, maintains or disseminates PII, a PIA must be completed by the contractor and provided to the GSA Privacy Office for review along with the other authorization to operate (ATO) documents.
- If the system retrieves information using PII, the Privacy Act applies and it must have a system of records notice (SORN) published in the Federal Register.
- If PII is collected from individuals by the system, a Privacy Act Statement (i.e., Privacy Notice) must be provided to users prior to their use of the application on what data is being collected and why, as well as the authority for the collection and the impact of not providing some or all of it. The Privacy Act Statement must be available to the individual directly on the form used to collect the information. Providing a link back to the Statement from the form is acceptable.

Provided below is a template for an acceptable Privacy Act Statement, when bracketed sections are completed. A completed example is available at <https://www.gsa.gov/reference/gsaprivacy-program/privacy-act-statement-for-design-research>.

#### Privacy Act Statement

This (insert voluntary or mandatory) collection of personal information is authorized by (insert legal authority). We collect (developer insert categories of PII collected, e.g., name, email, etc.). Your personal information is collected so we can (developer insert purpose of collection and what effect on the individual, if any, not providing any or all of the information may have). Your personal information is stored in (developer insert GSA system name). GSA may use this information pursuant to its published Privacy Act system of records notice (insert link to applicable GSA Privacy Act SORN).

Note: Systems that access data a user creates must assume a user may include privacy data/PII in the system unless the data creation is restricted to data controlled by the system. All contractor staff who have significant privacy information responsibilities must complete GSA's specialized Privacy 201 Training. This includes contractors who work with PII as part of their work duties (e.g.; Human Resource staff, Finance staff, and managers/supervisors).

- **Additional Stipulations (as applicable)**

1. The deliverables shall be labeled Sensitive But Unclassified (SBU) or contractor selected designation per document sensitivity. External transmission/dissemination of SBU to or from a Government computer must be encrypted. Certified encryption modules must be used in accordance with FIPS PUB 140-2, "Security Requirements for Cryptographic Modules."
2. The Contractor shall certify applications are fully functional and operate correctly as intended on systems using the United States Government Configuration Baseline (USGCB). This includes Internet Explorer configured to operate on Windows. The standard installation, operation, maintenance, update and/or patching of software shall not alter the configuration settings from the approved USGCB configuration. The information technology should also use the Windows Installer Service for installation to the default "program files" directory and should be able to silently install and uninstall. Applications designed for normal end users shall run in the standard user context without elevated system administration privileges. The contractor shall use Security Content Automation Protocol (SCAP) validated tools with USGCB Scanner capability to certify their products operate correctly with USGCB configurations and do not alter USGCB settings.
3. The Contractor shall cooperate in good faith in defining non-disclosure agreements that other third parties must sign when acting as the Federal government's agent.
4. The Government has the right to perform manual or automated audits, scans, reviews, or other inspections of the vendor's IT environment being used to provide or facilitate services for the Government. The Contractor shall be responsible for the following privacy and security safeguards:

- a) The Contractor shall not publish or disclose in any manner, without the Contracting Officer's written consent, the details of any safeguards either designed or developed by the Contractor under this contract or otherwise provided by the Government. Exception - Disclosure to a Consumer Agency for purposes of A&A verification or to the MAX.Gov portal. To the extent required to carry out a program of inspection to safeguard against threats and hazards to the security, integrity, and confidentiality of Government data, the Contractor shall afford the Government access to the Contractor's facilities, installations, technical capabilities, operations, documentation, records, and databases within 72 hours of the request. Access to support incident investigations, shall be provided as soon as possible but not longer than 72 hours after request.

The program of inspection shall include, but is not limited to:

- Authenticated and unauthenticated operating system/network vulnerability scans
- Authenticated and unauthenticated web application vulnerability scans
- Authenticated and unauthenticated database application vulnerability scans
- Automated scans can be performed by Government personnel, or agents acting on behalf of the Government, using Government operated equipment, and Government specified tools. If the vendor chooses to run its own automated scans or audits, results from these scans may at the Government's discretion, be accepted in lieu of Government performed vulnerability scans. In these cases, scanning tools and their configuration shall be approved by the Government. In addition, the results of vendor-conducted scans shall be provided in full to the Government.

- b) If new or unanticipated threats or hazards are discovered by either the Government or the Contractor, or if existing safeguards have ceased to function, the discoverer shall immediately bring the situation to the attention of the other party.

5. The Contractor shall comply with Section 1634 of Public Law 115-91 that prohibits use of any hardware, software, or services developed or provided, in whole or in part, by— (1) Kaspersky Lab (or any successor entity); (2) any entity that controls, is controlled by, or is under common

control with Kaspersky Lab; or (3) any entity of which Kaspersky Lab has majority ownership.

## 5 Cloud Information Systems – IT Security and Privacy Requirements

The contractor shall implement the controls contained within the FedRAMP Cloud Computing Security Requirements Baseline and FedRAMP Continuous Monitoring Requirements for moderate impact systems (as defined in FIPS PUB 199). These documents define requirements for compliance to meet minimum Federal information security and privacy requirements for moderate impact systems. The FedRAMP baseline controls are based on NIST Special Publication 800-53, Revision 4, “*Security and Privacy Controls for Federal Information Systems and Organizations*” (as amended), and also includes a set of additional controls for use within systems providing cloud services to the federal government.

The contractor shall generally, substantially, and in good faith follow FedRAMP guidelines and Security guidance. In situations where there are no procedural guides, the contractor shall use generally accepted industry best practices for IT security.

GSA may choose to cancel the contract and terminate any outstanding orders if the contractor has its FedRAMP authorization (JAB Provisional or Agency) revoked and the deficiencies are greater than agency risk tolerance thresholds.

- **Assessment and Authorization**

- **Assessment of the System**

1. The contractor shall comply with FedRAMP requirements as mandated by Federal laws and policies, including making available any documentation, physical access, and logical access needed to support this requirement. The Level of Effort for the A&A is based on the System’s NIST Federal Information Processing Standard (FIPS) Publication 199 categorization. The contractor shall create, maintain and update the following documentation using FedRAMP requirements and templates, which are available at <https://www.fedramp.gov/>:
  - Privacy Impact Assessment (PIA)
  - FedRAMP Test Procedures and Results
  - Security Assessment Report (SAR)
  - System Security Plan (SSP)
  - IT System Contingency Plan (CP)
  - IT System Contingency Plan (CP) Test Results
  - Plan of Action and Milestones (POA&M)
  - Continuous Monitoring Plan (CMP)
  - FedRAMP Control Tailoring Workbook
  - Control Implementation Summary Table
  - Results of Penetration Testing
  - Software Code Review
  - Interconnection Agreements/Service Level Agreements/Memorandum of Agreements
2. Information systems must be assessed by an accredited FedRAMP Third Party Assessment Organization (3PAO) whenever there is a significant change to the system’s security posture in accordance with the FedRAMP Continuous Monitoring Plan.
3. The Government reserves the right to perform Security Assessment and Penetration Testing (of its instance). If the Government exercises this right, the contractor shall allow Government employees (or designated third parties) to conduct Security Assessment and Penetration Testing activities to include control reviews in accordance with FedRAMP requirements. Penetration shall be supported by mutually agreed upon Rules of Engagement (RoE). Review activities include but are not limited to manual penetration testing; automated scanning of operating systems, web

applications; wireless scanning; network device scanning to include routers, switches, and firewall, and IDS/IPS; databases and other applicable systems, including general support structure, that support the processing, transportation, storage, or security of Government information for vulnerabilities.

4. The contractor shall provide access to the Federal Government, or their designee acting as their agent, when requested, in order to verify compliance with the requirements for an Information Technology security program. The Government reserves the right to conduct on-site inspections. The contractor shall make appropriate personnel available for interviews and provide all necessary documentation during this review.
5. Physical Access Considerations – If the Cloud Service Provider (CSP) is operated within an Infrastructure as a Service (IaaS) that is FedRAMP authorized (e.g., AWS); physical access to the physical datacenter environment will be governed by the terms of access allowed by the underlying infrastructure provider as defined in the FedRAMP A&A authorization package.
6. Identified gaps between required FedRAMP Security Control Baselines and Continuous Monitoring controls and the contractor's implementation as documented in the Security Assessment Report shall be tracked by the contractor for mitigation in a Plan of Action and Milestones (POA&M) document. Depending on the severity of the gaps, the Government may require them to be remediated before a GSA authorization is issued.
7. The contractor is responsible for mitigating all security risks found during A&A and continuous monitoring activities. All high-risk vulnerabilities must be mitigated within 30 days and all moderate risk vulnerabilities must be mitigated within 90 days from the date vulnerabilities are formally identified. The Government will determine the risk rating of vulnerabilities.

- **Authorization of the System**

1. If the CSP Software as a Service (SaaS) or Platform as a Service (PaaS) is FedRAMP authorized (i.e., listed as FedRAMP authorized on the FedRAMP website:  
<https://marketplace.fedramp.gov/index.html#/products?sort=productName&status=Compliant>

GSA will leverage the CSP's FedRAMP Assessment and Authorization package to document and assess the customer controls for which GSA has responsibility and issue a GSA ATO for the agency's instance of the CSP's SaaS or PaaS offering. The CSP shall work with the GSA to facilitate documentation and assessment of required customer controls, as necessary.

2. If the CSP SaaS or PaaS offering is NOT already FedRAMP authorized, it shall:
  - a. Operate on an IaaS CSP environment that is FedRAMP authorized; AND
  - b. Be listed as FedRAMP In Process on the FedRAMP Website -  
<https://marketplace.fedramp.gov/index.html#/products?sort=productName&status=In%20Process>  
OR be listed as FedRAMP Ready on the FedRAMP website -  
<https://marketplace.fedramp.gov/index.html#/products?sort=productName&status=FedRAMP%20Ready>
  - c) Shall deliver within 90 days of contract award a FedRAMP Readiness Assessment Review completed by a FedRAMP 3PAO following the FedRAMP Readiness Assessment Guidelines. The FedRAMP Readiness Assessment Review demonstrates the CSP's overall readiness for FedRAMP authorization and whether it has a viable path to achieve a FedRAMP authorization within one (1) year of the contract award. If the CSP does not provide a FedRAMP Readiness Assessment as prescribed or the assessment demonstrates a significant gap in capabilities that will preclude achievement of a FedRAMP authorization within 1 year of the contract award, then GSA will terminate the contract.

If requirements a-c, as defined above, are met the CSP will have one (1) year from the date of contract award to achieve FedRAMP authorization. During this transitional

period, GSA may issue an agency specific authorization (i.e., not FedRAMP) not to exceed one (1) year (to allow the CSP to achieve FedRAMP compliance) leveraging an existing ATO with another Federal Department/Agency (D/A) (with supporting A&A Package). The CSP may have a non-FedRAMP ATO with another D/A or be based on the GSA Moderate Impact SaaS Solutions process as described in GSA IT Security Procedural Guide 06-30, "Managing Enterprise Risk." The CSP shall make available any existing assessment and authorization package for GSA review and provide necessary documentation and access to facilitate the GSA Moderate Impact SaaS A&A process. Without a FedRAMP authorization within 1 year of contract award; GSA will not be able to use the product for the option years and shall terminate the contract.

3. CSP shall ensure these essential security controls are implemented. CSP shall implement FedRAMP parameters control parameters and implementation guidance, as applicable. Further, the CSP shall make the proposed system and security architecture of the information system available to the Security Engineering Division, in the Office of the Chief Information Security Officer for review and approval before commencement of system build (architecture, infrastructure, and code (as applicable)) and/or the start as A&A activities.

Control ID	Control Title	FedRAMP Baseline
AC-2	Account Management	L, M, H
AU-2	Audit Events	L, M, H
CM-6	Configuration Settings	L, M, H
CP-7	Alternative Processing Site	M, H
CP-8	Telecom Services	M, H
IA-2 (1)	Identification and Authentication (Organizational Users)   Network Access to Privileged Accounts	L, M, H
IA-2 (2)	Identification and Authentication (Organizational Users)   Network Access to Non-Privileged Accounts	M, H
IA-2 (12)	Identification and Authentication (Organizational Users)   Acceptance of PIV Credentials	L, M, H
IA-7	Cryptographic Module Authentication	L, M, H
MP-4	Media Storage	M, H
MP-5	Media Transport	M, H
PL-8	Information Security Architecture	M, H
RA-5	Vulnerability Scanning	L, M, H
SC-8 / SC-8(1)	Transmission Confidentiality and Integrity / Transmission Confidentiality and Integrity	M, H

Control ID	Control Title	FedRAMP Baseline
	Cryptographic or Alternate Physical Protection	
SC-13	Cryptographic Protection	L, M, H
SC-17	PKI Certificates	M, H
SC-18	Mobile Code	M, H
SC-22	Architecture and Provisioning for Name / Address Resolution Service	L, M, H
SC-28 (1)	Protection of Information at Rest   Cryptographic Protection	M, H
SI-2	Flaw Remediation	L, M, H
SI-3	Malicious Code Protection	L, M, H
SI-4	Information System Monitoring	L, M, H
SI-10	Information Input Validation	M, H

- **Reporting and Continuous Monitoring**

Maintenance of the FedRAMP Authorization will be through continuous monitoring and periodic audit of the operational controls within a contractor's system, environment, and processes to determine if the security controls in the information system continue to be effective over time in light of changes that occur in the system and environment. Through continuous monitoring, security controls and supporting deliverables are updated in agreement with FedRAMP guidelines and submitted to the MAX.Gov Portal or repository designated by the FedRAMP program.

The submitted deliverables (or lack thereof) provide a current understanding of the security state and risk posture of the information systems. The deliverables will allow the Federal Departments/Agencies leveraging the services providers' cloud offering to make credible risk-based decisions regarding the continued operations of the information systems and initiate appropriate responses as needed when changes occur. Contractors will be required to provide updated deliverables and automated data feeds as defined in the FedRAMP Continuous Monitoring Plan.

The contractor shall provide continuous monitoring deliverables in support of a one (1) year conditional authorization (if necessary) to achieve FedRAMP authorization. Deliverables shall include:

- Quarterly OS, web, and database vulnerability scans (deliverable shall include raw results and findings shall be included in the POA&M document);
- Quarterly Plan of Action and Milestones (POA&M);
- Annual A&A Package updates including the System Security Plan, Contingency Plan, Configuration Management Plan, Contingency Plan Test Report, and Annual FISMA Assessment.

Upon achievement of FedRAMP authorization, GSA will accept the FedRAMP A&A and continuous monitoring documentation made available on the MAX.Gov Portal or a repository designated by the FedRAMP program in agreement with FedRAMP guidelines to satisfy the continuous monitoring requirement.

- **Personnel Security Requirements**

Contractor shall furnish documentation reflecting favorable adjudication of background investigations for all personnel (including subcontractors) supporting the system. Contractors shall comply with GSA Order 2100.1 – “GSA Information Technology (IT) Security Policy” and GSA Order CIO P 2181.1 – “HSPD-12 Personal Identity Verification and Credentialing Handbook.” GSA separates the risk levels for personnel working on Federal computer systems into three categories: Low Risk, Moderate Risk, and High Risk.

- Those contract personnel (hereafter known as “Applicant”) determined to be in a Low Risk position will require a National Agency Check with Written Inquiries (NACI) investigation.
- Those Applicants determined to be in a Moderate Risk position will require either a Limited Background Investigation (LBI) or a Minimum Background Investigation (MBI) based on the Contracting Officer’s (CO) determination.
- Those Applicants determined to be in a High Risk position will require a Background Investigation (BI).

Applicants will not be reinvestigated if a prior favorable adjudication is on file with FPS or GSA, there has been less than a one year break in service, and the position is identified at the same or lower risk level. Once a favorable FBI Criminal History Check (Fingerprint Check) has been returned, Applicants may receive a GSA identity credential (if required) and initial access to GSA information systems. The HSPD-12 Handbook contains procedures for obtaining identity credentials and access to GSA information systems as well as procedures to be followed in case of unfavorable adjudications.

GSA shall sponsor the investigation when deemed necessary. No access shall be given to government computer information systems and government sensitive information without a background investigation being verified or in process. If results of background investigation are not acceptable, then access shall be terminated.

The Contractor shall provide a report of separated staff on a monthly basis, beginning 60 days after execution of the option period.

- **Sensitive Information Storage**

Sensitive But Classified (SBU) information, data, and/or equipment will only be disclosed to authorized personnel on a Need-To-Know basis. The contractor shall ensure that appropriate administrative, technical, and physical safeguards are established to ensure the security and confidentiality of this information, data, and/or equipment is properly protected. When no longer required, this information, data, and/or equipment will be returned to Government control, destroyed, or held until otherwise directed. Destruction of items shall be accomplished by following NIST Special Publication 800-88, “Guidelines for Media Sanitization.” The destruction, purging or clearing of media specific to the CSP will be recorded and supplied upon request of the Government.

- **Protection of Information**

The contractor shall be responsible for properly protecting all information used, gathered, or developed as a result of work under this contract. The contractor shall also protect all Government data, equipment, etc. by treating the information in accordance with its FISMA system categorization.

All information about the systems gathered or created under this contract should be considered as SBU Information. If contractor personnel must remove any information from the primary work area that is included in the ATO boundary, they should protect it to the same FedRAMP requirements. The use of any information that is subject to the Privacy Act will be utilized in full accordance with all rules of conduct as applicable to Privacy Act Information.

### **5.7.1 Unrestricted Rights to Data**

The government will retain unrestricted rights to government data. The ordering activity retains ownership of any user created/loaded data and applications hosted on vendor’s infrastructure, as well as maintains the right to request full copies of these at any time.

### **5.7.2 Personally Identifiable Information**

Personally Identifiable Information (PII) is in the scope of acquisition and PII is expected to be stored in the vendor's cloud solution. The use of any PII that is subject to the Privacy Act and/or the E-Government Act will be handled in full accordance with all GSA rules of conduct as applicable to GSA Privacy Act requirements.

PII (should it come into scope) will require that the vendor's cloud solution be FedRAMP authorized at the FIPS PUB 199 moderate level.

### **5.7.3 Data Availability**

The data must be available to the Government upon request within one business day or within the timeframe negotiated with the Contractor, and shall not be used for any other purpose other than that specified herein. The contractor shall provide requested data at no additional cost to the government.

### **5.7.4 Data Release**

Any information made available to the Contractor by the Government shall be used only for the purpose of carrying out the provisions of this contract and shall not be divulged or made known in any manner to any persons except as may be necessary in the performance of the contract. In performance of this contract, the Contractor assumes responsibility for protection of the confidentiality of Government records and shall ensure that all work performed by its subcontractors shall be under the supervision of the Contractor or the Contractor's responsible employees. Each officer or employee of the Contractor or any of its subcontractors to whom any Government record may be made available or disclosed shall be notified in writing by the Contractor that information disclosed to such officer or employee can be used only for that purpose and to the extent authorized herein. Further disclosure of any such information, by any means, for a purpose or to an extent unauthorized herein, may subject the offender to criminal sanctions imposed by 18 U.S.C. §§ 1030.

Contractor will not disclose Customer Data to any government or third party or access or use Customer Data; except in each case as necessary to maintain the Cloud Services or to provide the Cloud Services to Customer in accordance with this contract, or as necessary to comply with the law or a valid and binding order of a governmental or regulatory body (such as a subpoena or court order). Unless it would be in violation of a court order or other legal requirement, Contractor will give Government reasonable notice of any such legal requirement or order, to allow Government to seek a protective order or other appropriate remedy.

### **5.8 Data Ownership**

All Government data collected in the system is the property of the Federal Government. All data collected by the system shall be provided by the Contractor (system provider) as requested during the contract period and at the completion of the contract period.

### **5.9 Confidentiality and Nondisclosure**

Personnel working on any of the described tasks, may at Government request, be required to sign formal non-disclosure and/or conflict of interest agreements to guarantee the protection and integrity of Government information and documents.

Additionally, any information made available to the Contractor by the Government shall be used only for the purpose of carrying out the provisions of this contract and shall not be divulged or made known in any manner to any persons except as may be necessary in the performance of the contract. In performance of this contract, the Contractor assumes responsibility for protection of the confidentiality of Government records and shall ensure that all work performed by its subcontractors shall be under the supervision of the Contractor or the Contractor's responsible employees. Each officer or employee of the Contractor or any of its subcontractors to whom any Government record may be made available or disclosed shall be notified in writing by the Contractor that information disclosed to such officer or employee can be used only for that purpose and to the extent authorized herein. Further disclosure of any such information, by any means, for a purpose or to an extent unauthorized herein, may subject the offender to criminal sanctions imposed by 18 U.S.C. §§ 1030.

### **5.10 GSA Non-Disclosure Agreement**

Each individual contractor/subcontractor employee who performs work on this contract is required to sign an Employee Non-Disclosure Agreement. The Contractor shall submit to the COR a completed confidentiality and non-disclosure agreement form for each individual contractor/subcontractor.

The Contractor and all contractor/subcontractor employees may have access to sensitive data, proprietary, or confidential business information of other companies or the Government in the course of performing official duties on this contract. The term "proprietary information" means any information considered so valuable by its owners that it is held in secret by them and their licensees and is not available to the public.

All information that is (1) obtained related to or derived from this contract, and (2) results from or derived from any actual tasks assigned to contractor employees while participating on this contract is considered proprietary.

The Contractor and all contractor/subcontractor employees will not use vendor proprietary information except as necessary to perform this contract, and shall agree not to disclose such information to third parties, including any employee of the contractor/subcontractor who has not executed this nondisclosure agreement, or use such information in any manner inconsistent with the purpose for which it was obtained. Anyone failing to comply with the agreement may be subject to disciplinary action or termination of employment by the contractor/subcontractor, and possible administrative, civil, or criminal penalties.

### **5.11 Additional Stipulations**

1. Deliverables shall be labeled Sensitive But Unclassified (SBU) or contractor selected designation per document sensitivity. External transmission/dissemination of SBU to or from a Government computer must be encrypted. Certified encryption modules must be used in accordance with FIPS PUB 140-2, "Security Requirements for Cryptographic Modules."
2. The Contractor shall certify applications are fully functional and operate correctly as intended on systems using the United States Government Configuration Baseline (USGCB). This includes Internet Explorer configured to operate on Windows. The standard installation, operation, maintenance, update, and/or patching of software shall not alter the configuration settings from the approved USGCB configuration. The information technology should also use the Windows Installer Service for installation to the default "program files" directory and should be able to silently install and uninstall. Applications designed for normal end users shall run in the standard user context without elevated system administration privileges. The contractor shall use Security Content Automation Protocol (SCAP) validated tools with USGCB Scanner capability to certify their products operate correctly with USGCB configurations and do not alter USGCB settings.
3. The contractor shall cooperate in good faith in defining non-disclosure agreements that other third parties must sign when acting as the Federal government's agent.
4. The contractor shall comply with any additional FedRAMP privacy requirements.
5. The Government has the right to perform manual or automated audits, scans, reviews, or other inspections of the vendor's IT environment being used to provide or facilitate services for the Government. The Contractor shall be responsible for the following privacy and security safeguards:
  - a) The Contractor shall not publish or disclose in any manner, without the Contracting Officer's written consent, the details of any safeguards either designed or developed by the Contractor under this contract or otherwise provided by the Government. Exception - Disclosure to a Consumer Agency for purposes of A&A verification or to the MAX.Gov portal. To the extent required to carry out a program of inspection to safeguard against threats and hazards to the security, integrity, and confidentiality of Government data, the Contractor shall afford the Government access to the Contractor's facilities, installations, technical capabilities, operations, documentation, records, and databases within 72 hours

of the request. Access to support incident investigations, shall be provided as soon as possible but not longer than 72 hours after request.

- b) Physical Access Considerations – If the SaaS provider is operated within an IaaS that is FedRAMP authorized (e.g., AWS); physical access to the physical datacenter environment will be governed by the terms of access allowed by the underlying infrastructure provider as defined in the Fed RAMP A&A authorization package.
  - c) The program of inspection shall include, but is not limited to:
    - Authenticated and unauthenticated operating system/network vulnerability scans
    - Authenticated and unauthenticated web application vulnerability scans
    - Authenticated and unauthenticated database application vulnerability scans
    - Automated scans can be performed by Government personnel, or agents acting on behalf of the Government, using Government operated equipment, and Government specified tools. If the vendor chooses to run its own automated scans or audits, results from these scans may at the Government's discretion, be accepted in lieu of Government performed vulnerability scans. In these cases, scanning tools and their configuration shall be approved by the Government. In addition, the results of vendor-conducted scans shall be provided in full to the Government.
  - d) If new or unanticipated threats or hazards are discovered by either the Government or the Contractor, or if existing safeguards have ceased to function, the discoverer shall immediately bring the situation to the attention of the other party.
6. The Contractor shall comply with Section 1634 of Public Law 115-91 that prohibits use of any hardware, software, or services developed or provided, in whole or in part, by – (1) Kaspersky Lab (or any successor entity); (2) any entity that controls, is controlled by, or is under common control with Kaspersky Lab; or (3) any entity of which Kaspersky Lab has majority ownership.

#### 5.12 References

- Guide to Understanding FedRAMP: <https://www.fedramp.gov/files/2015/03/Guide-to-Understanding-FedRAMP-v2.0-4.docx>
- FedRAMP Cloud Computing Documents: <https://www.fedramp.gov/resources/documents-2016/>
- FedRAMP Templates: <https://www.fedramp.gov/resources/templates-2016/>

## 6 Mobile Application - IT Security and Privacy Requirements

The contractor shall generally, substantially, and in good faith follow GSA IT Security Policy and Guidelines including GSA Order CIO 2100.1, “GSA Information Technology (IT) Security Policy” (or current version) and GSA IT Security Procedural Guide 12-67, “Securing Mobile Devices and Applications”, (or current version). In situations where there are no procedural guides, the contractor shall use generally accepted industry best practices for IT security.

### 6.1 General Mobile Application Guidelines

1. The App shall be integrated with an MDM (Mobile Device Management) solution. GSA currently uses MAAS 360.
2. The contractor shall provide to the GSA IT Contracting Officer Representative (COR) the source code and all supporting artifacts of the app for security testing via the GSA Static and mobile Code Scanning program.- In addition, the contractor shall actively participate in the program to remediate all findings according to the most recent Static Code Scanning Standard Operating Procedure SOP before the beta and production App is accepted by GSA. Once the contract is awarded, GSA will provide a copy of the Static Code Scanning SOP to the contractor.
3. The contractor shall provide clear and concise documentation so that future developers and programmers can understand the processes used and are able to enhance, edit or build upon the original App. All source code information prepared for this App is the property of GSA, Federal Acquisition Service, OCCM and GSA IT.

- The contractor shall provide detailed process and code documentation.
- The contractor shall provide Mobile App features documentation.
- The contractor shall support development and updates of a security authorization package for the App following the process requirements documented in GSA IT Security Procedural Guide 12-67, “*Securing Mobile Devices and Applications*”, or current version.

## **6.2 Mobile Device Security**

The contractor shall adhere to the following requirements and guidelines for developing mobile applications. All requirements and guidelines are found in the GSA IT Security Procedural Guide 12-67, “*Securing Mobile Devices and Applications*”, which will be provided upon contract award.

A mobile application, most commonly referred to as an app, is a type of application software designed to run on a mobile device, such as a smartphone or tablet computer. Mobile applications frequently serve to provide users with similar services to those accessed on PCs. Apps are generally small, individual software units with limited capabilities and isolated functionality. The simplest apps are developed to utilize the web browser of the mobile device to provide a feature set integration much like what is found on a user’s PC. However, as mobile app development has grown, a more sophisticated approach involves developing applications specifically for the mobile environment, taking advantage of both its limitations and advantages. For example, apps that use location-based features are inherently built from the ground up with an eye to mobile devices given that you don’t have the same concept of location on a PC. With this new paradigm in both mobile platforms and the applications loaded on them, GSA will concentrate security focus on the following goals:

- That all apps loaded have an initial assessment by GSA for acceptability and then a security assessment & authorization, when required
- That all apps are deployed from only trusted sources, following their security/assessment process – This presently is the Apple iTunes store for iOS and the Google Play store for Android. MaaS360 may also be used, once retrieved from these sources, for enterprise deployment
- That Terms of Service (ToS) discipline is adhered to, based on acceptability of an app – either as an individual user or for GSA as an Agency
- That apps deemed to be unacceptable are blacklisted, using MaaS360
- That a mobile app inventory for all devices be maintained
- That GSA developed apps are assessed, evaluated and approved by the AO for the system they support before deployment

## **6.3 Application Sources**

Allowing mobile apps to be loaded from an unknown source presents one of the greatest risks to GSA’s environment when using mobile devices. “Side loading” of apps is a process where a user installs an application from a source other than the Apple iTunes store or Google Play store. If a user jailbreaks a device, side loading can occur as well. Jailbreaking, or rooting, is a process where an Operating System (OS) of a mobile device grants a user or application root level access to the OS. While iOS devices that are not jailbroken/rooted protect against sideloading, the Android OS allows a user to turn such protection on/off (allow unknown sources) if not managed by MDM.

As such, the following policies apply to all GSA devices (Government and Bring Your Own Device) used in the environment to protect against side loading of apps:

- Devices shall not be jailbroken/rooted by users or apps loaded by users. GSA’s MDM solution shall immediately notify an administrator of all such incidents immediately for remediation
- Unknown sources shall not be enabled by users or applications. GSA’s MDM solution shall immediately notify an administrator of all such incidents for remediation
- GSA developed apps may be sideloaded for testing purposes only on test devices, but production deployment of GSA developed apps may only be done via the policies outlined below for Apple iOS and Google Android.

The GSA MaaS store may be employed for enterprise deployments, but only after the app has undergone the review/approval processes outlined below:

- Apple iTunes App Review guidelines - <https://developer.apple.com/app-store/review/>
- Google Play Store Developer Policy Center - <https://play.google.com/about/developer-content-policy/>

#### **6.4 Terms of Service (ToS) and Privacy Discipline**

Many terms found in commercial TOS or End User License Agreements (EULA) are not acceptable when the Government is the end user. Office of Chief Information Officer (OCIO) requires that software and services within the GSA Enterprise have approved ToS or EULA.

Apps deemed to be acceptable are loaded at the discretion of the user for either personal use or as a personal productivity tool to further enhance the work experience. As such, use of the app is not mandated by the agency. Therefore, acceptance of the ToS falls upon the user as an individual. This is true even if the App is loaded using a GSA.gov domain account or registered with a user's GSA.gov email address.

**Apps that are approved after formal assessment:** and include a formal review by GSA Counsel as part of the review/approval process, where the ToS was found to be acceptable to the government or a modified ToS was negotiated as part of the approval review, prior to final authorization. When loaded and activated, the user is accepting the ToS (often a technical function required of the user), not as an individual, but as an employee or contract employee assigned to perform work functions for GSA.

#### **6.5 GSA Privacy Requirements**

Personally identifiable information (PII) is in the scope of the acquisition and PII is expected to be stored, processed, or transmitted in the vendor's App. The collection, maintenance or dissemination of any PII that is subject to the Privacy Act and/or the E-Government Act will be handled in full accordance with all GSA rules of conduct and in accordance with GSA Privacy Program requirements.

The contractor shall prepare a Privacy Threshold Analysis (PTA) to confirm and document PII is not in scope, or to determine which categories of information will be stored, processed, or transmitted by the App. The PTA must be completed before development begins and whenever a change with privacy impact (e.g., a new category of information is collected) is made to an existing App. PTAs are required to determine whether a Privacy Impact Assessment (PIA) and/or a System of Records Notice (SORN) is required, and if any other privacy requirements apply to the App. Instructions for the PTA and PIA forms can be found at <https://www.gsa.gov/reference/gsa-privacy-program/privacy-impact-assessments-pia>.

PII (should it come into scope) will require the following guidelines be adhered to.

- The vendor's App must be authorized at least at the FIPS PUB 199 Moderate level.
- For any system that collects, maintains or disseminates PII, a PIA must be completed by the contractor and provided to the GSA Privacy Office for review along with the other authorization to operate (ATO) documents.
- If the system retrieves information using PII, the Privacy Act applies and it must have a system of records notice (SORN) published in the Federal Register.
- If PII is collected from individuals by the system, a Privacy Act Statement (i.e., Privacy Notice) must be provided to users prior to their use of the application on what data is being collected and why, as well as the authority for the collection and the impact of not providing some or all of it. The Privacy Act Statement must be available to the individual directly on the form used to collect the information. Providing a link back to the Statement from the form is acceptable.

Provided below is a template for an acceptable Privacy Act Statement when bracketed sections are completed. A completed example is available at <https://www.gsa.gov/reference/gsa-privacy-program/privacy-act-statement-for-designresearch>.

## Privacy Act Statement

This (insert voluntary or mandatory) collection of personal information is authorized by (insert legal authority). We collect (developer insert categories of PII collected, e.g. name, email, etc.). Your personal information is collected so we can (developer insert purpose of collection and what effect on the individual, if any, not providing any or all of the information may have). Your personal information is stored in (developer insert App name). GSA may use this information pursuant to its published Privacy Act system of records notice (insert link to applicable GSA Privacy Act SORN).

Note: Apps that access data a user creates must assume a user may include privacy data/PII in the application unless the data creation is restricted to data controlled by the App.

All contractor staff who have significant privacy information responsibilities must complete GSA's specialized Privacy 201 Training. This includes contractors who work with PII as part of their work duties (e.g.; Human Resource staff, Finance staff, and managers/supervisors).

### **6.6 GSA App Development, Assessment, Authorization and Deployment**

GSA developed apps are designed to take advantage of the concept of Anytime, Any Where, Any Device (A3) to allow GSA users and customers to access GSA data while mobile. As such, as GSA business lines develop apps for use on the iOS and Android environment, these apps must undergo an assessment and authorization process before being deployed. With that in mind, the following guidelines are to be followed:

- A GSA developed app that supports a GSA FISMA system must be documented in the System Security Plan and authorized to operate as part of a current ATO letter from the respective AO before deployment. GSA IT Security Procedural Guide 06-30, "*Managing Enterprise Risk*", is to be followed for this process. Any app that is not directly tied to an already existing system authorized to operate must have an assessment performed and subsequently approved for release by the Chief Information Security Officer (CISO).
- Any mobile app development shall result in a minimum of the release of both an iOS and Android version of the app. This ensures coverage to all users within GSA and the maximum coverage for apps released to the public. Any additional application versions for alternate OS mobile platforms may be developed for such apps, but iOS and Android shall remain as the core base OS' for GSA developed mobile apps for all releases.
- All GSA developed apps must follow the respective application review and publication guidelines for the OS to which they were developed as outlined in Section 8.2 of GSA IT Security Procedural Guide 12-67, "*Securing Mobile Devices and Applications*" and the release process documented in this section.
- Other than for testing purposes on non-user provisioned mobile devices, side loading of apps in the environment is not authorized.
- The GSA MaaS360 Store is authorized for enterprise deployment of apps to GSA user devices once that app has been assessed, authorized, and published according to the guidelines outlined in this section.
- Mobile code scanning throughout the development cycle is critical, but before release by the Mobile Device Team, a mobile app must be scanned by the Systems Engineering Division (ISE) Team within the OCISO. This scan is a source code scan using the CheckMarx platform. As with all applications in GSA, no High/Critical findings are allowed from these scan results. Moderate findings should be documented in the respective POA&M for the system by which the app is authorized and accepted by the AO; Low and Informational findings should be taken into consideration by the developers for their next iteration of app development. A detailed process for mobile app release is documented at the end of this section.
- All mobile application development should take into consideration the Open Web Application Security Project (OWASP) Mobile Security Project when developing mobile apps either within GSA or for use by the general public. The guidelines for developing OWASP is outlined below:

- OWASP Security Testing Guide Link - [https://www.owasp.org/index.php/OWASP\\_Mobile\\_Security\\_Testing\\_Guide](https://www.owasp.org/index.php/OWASP_Mobile_Security_Testing_Guide)
- OWASP Mobile Security Project Home Page - [https://www.owasp.org/index.php/OWASP\\_Mobile\\_Security\\_Project](https://www.owasp.org/index.php/OWASP_Mobile_Security_Project)
- OWASP Secure Development considerations
- [https://www.owasp.org/images/0/04/Security\\_Testing\\_Guidelines\\_for\\_mobile\\_Apps\\_-\\_Florian\\_Stahl%2BJohannes\\_Stroeher.pdf](https://www.owasp.org/images/0/04/Security_Testing_Guidelines_for_mobile_Apps_-_Florian_Stahl%2BJohannes_Stroeher.pdf)
- GSA developed mobile apps must undergo an assessment review and approval process before being released for use. These apps fall into two categories that shall have slightly different processes for approval, with many common steps.
- Mobile apps that are developed as part of another system with a current ATO and provide access to an application using a different form factor (smartphones/tablets), such apps must be documented in the System Security Plan for the system they support.
- Mobile apps designed for a specific purpose not part of a current ATO stand alone in their ATO. As these apps do not have a parent system they support, the below listed process is the complete assessment process required for these apps.

All apps must follow the approval processes outlined below:

1. Apps must be scanned prior to release by the GSA Office of the CISO using the Checkmarx Application scanner. No Critical/High findings may remain for approval to be received and any moderate/medium findings must be contained in a POA&M, either for the system the app is a part of, or a separate POA&M if a standalone mobile app.
2. The privacy requirements as stated above must be met.
3. A mobile application security assessment review in accordance with the GSA-IT Procedural Guide: CIO-IT Security-12-67, "*Securing Mobile Devices and Applications*" must be completed and signed by the mobile App owner, mobile App assessor, mobile App Information System Security Manager (ISSM), a representative of the Office of the CSIO, to denote a proper assessment and review was conducted of the mobile app prior to release.

### **6.7 Intellectual Property**

This task order is funded by the United States Government. All intellectual property generated and/or delivered pursuant to this Firm-Fixed Price Statement of Work will be subject to appropriate federal acquisition regulations which entitle the Government to unlimited license rights in technical data and computer software developed exclusively with Government funds, a nonexclusive "paid-up" license to practice any patentable invention or discovery made during the performance of this task order, and a "paid-up" nonexclusive and irrevocable worldwide license to reproduce all works (including technical and scientific articles) produced during this task order.

### **6.8 Confidentiality and Nondisclosure**

The preliminary and final deliverables and all associated working papers and other material deemed relevant by the agency that have been generated by the contractor in the performance of this contract, are the property of the U.S. Government and must be submitted to the COR at the conclusion of the contract. The U.S. Government has unlimited data rights to all deliverables and associated working papers and materials.

All documents produced for this project are the property of the U.S. Government and cannot be reproduced or retained by the contractor. All appropriate project documentation will be given to the agency during and at the end of this contract. The contractor shall not release any information without the written consent of the Contracting Officer.

Personnel working on any of the described tasks may, at Government request, be required to sign formal non-disclosure and/or conflict of interest agreements to guarantee the protection and integrity of Government information and documents.

Additionally, any information made available to the Contractor by the Government shall be used only for the purpose of carrying out the provisions of this contract and shall not be divulged or made known in any manner to any persons except as may be necessary in the performance of the contract. In performance of this contract, the Contractor assumes responsibility for protection of the confidentiality of Government records and shall ensure that all work performed by its subcontractors shall be under the supervision of the Contractor or the Contractor's responsible employees. Each officer or employee of the Contractor or any of its subcontractors to whom any Government record may be made available or disclosed shall be notified in writing by the Contractor that information disclosed to such officer or employee can be used only for that purpose and to the extent authorized herein. Further disclosure of any such information, by any means, for a purpose or to an extent unauthorized herein, may subject the offender to criminal sanctions imposed by 18 U.S.C. §§ 1030.

#### **6.9 GSA Non-Disclosure Agreement**

Each individual contractor/subcontractor employee who performs work on this contract is required to sign an Employee Non-Disclosure Agreement. The Contractor shall submit to the COR a completed confidentiality and non-disclosure agreement form for each individual contractor/subcontractor.

The Contractor and all contractor/subcontractor employees may have access to sensitive data, proprietary, or confidential business information of other companies or the Government in the course of performing official duties on this contract. The term "proprietary information" means any information considered so valuable by its owners that it is held in secret by them and their licensees and is not available to the public.

All information that is (1) obtained related to or derived from this contract, and (2) results from or derived from any actual tasks assigned to contractor employees while participating on this contract is considered proprietary.

The Contractor and all contractor/subcontractor employees will not use vendor proprietary information except as necessary to perform this contract, and shall agree not to disclose such information to third parties, including any employee of the contractor/subcontractor who has not executed this nondisclosure agreement, or use such information in any manner inconsistent with the purpose for which it was obtained. Anyone failing to comply with the agreement may be subject to disciplinary action or termination of employment by the contractor/subcontractor, and possible administrative, civil, or criminal penalties.

#### **6.10 Personnel Security Requirements**

Contractor shall furnish documentation reflecting favorable adjudication of background investigations for all personnel (including subcontractors) supporting the system. Contractors shall comply with GSA Order 2100.1 – "GSA Information Technology (IT) Security Policy" (or current version) and GSA Order CIO P 2181.1 – "HSPD-12 Personal Identity Verification and Credentialing Handbook" (or current version) GSA separates the risk levels for personnel working on Federal computer systems into three categories: Low Risk, Moderate Risk, and High Risk.

- Those contract personnel (hereafter known as "Applicant") determined to be in a Low Risk position will require a National Agency Check with Written Inquiries (NACI) investigation.
- Those Applicants determined to be in a Moderate Risk position will require either a Limited Background Investigation (LBI) or a Minimum Background Investigation (MBI) based on the Contracting Officer's (CO) determination.
- Those Applicants determined to be in a High Risk position will require a Background Investigation (BI).

Applicants will not be reinvestigated if a prior favorable adjudication is on file with FPS or GSA, there has been less than a one year break in service, and the position is identified at the same or lower risk level.

Once a favorable FBI Criminal History Check (Fingerprint Check) has been returned, Applicants may receive a GSA identity credential (if required) and initial access to GSA information systems. The HSPD-

12 Handbook contains procedures for obtaining identity credentials and access to GSA information systems as well as procedures to be followed in case of unfavorable adjudications.

GSA shall sponsor the investigation when deemed necessary. No access shall be given to government computer information systems and government sensitive information without a background investigation being verified or in process. If results of background investigation are not acceptable, then access shall be terminated.

The Contractor shall provide a report of separated staff on a monthly basis, beginning 60 days after execution of the option period.

#### **6.11 Additional Stipulations**

1. The deliverables shall be labeled Sensitive But Unclassified (SBU) or contractor selected designation per document sensitivity. External transmission/dissemination of SBU to or from a Government computer must be encrypted. Certified encryption modules must be used in accordance with FIPS PUB 140-2, "Security requirements for Cryptographic Modules."
2. The Contractor shall certify applications are fully functional and operate correctly as intended on systems using the United States Government Configuration Baseline (USGCB). This includes Internet Explorer configured to operate on Windows. The standard installation, operation, maintenance, update, and/or patching of software shall not alter the configuration settings from the approved USGCB configuration. The information technology should also use the Windows Installer Service for installation to the default "program files" directory and should be able to silently install and uninstall. Applications designed for normal end users shall run in the standard user context without elevated system administration privileges. The contractor shall use Security Content Automation Protocol (SCAP) validated tools with USGCB Scanner capability to certify their products operate correctly with USGCB configurations and do not alter USGCB settings.
3. The Contractor shall cooperate in good faith in defining non-disclosure agreements that other third parties must sign when acting as the Federal government's agent.
4. The Government has the right to perform manual or automated audits, scans, reviews, or other inspections of the vendor's IT environment being used to provide or facilitate services for the Government. The Contractor shall be responsible for the following privacy and security safeguards:
  - a) The Contractor shall not publish or disclose in any manner, without the Contracting Officer's written consent, the details of any safeguards either designed or developed by the Contractor under this contract or otherwise provided by the Government. Exception - Disclosure to a Consumer Agency for purposes of A&A verification or to the MAX.Gov portal. To the extent required to carry out a program of inspection to safeguard against threats and hazards to the security, integrity, and confidentiality of Government data, the Contractor shall afford the Government access to the Contractor's facilities, installations, technical capabilities, operations, documentation, records, and databases within 72 hours of the request. Access to support incident investigations, shall be provided as soon as possible but not longer than 72 hours after request.

The program of inspection shall include, but is not limited to:

- Authenticated and unauthenticated operating system/network vulnerability scans
- Authenticated and unauthenticated web application vulnerability scans
- Authenticated and unauthenticated database application vulnerability scans
- Automated scans can be performed by Government personnel, or agents acting on behalf of the Government, using Government operated equipment, and Government specified tools. If the vendor chooses to run its own automated scans or audits, results from these scans may at the Government's discretion, be accepted in lieu of Government performed vulnerability scans. In these cases,

scanning tools and their configuration shall be approved by the Government. In addition, the results of vendor-conducted scans shall be provided in full to the Government.

- b) If new or unanticipated threats or hazards are discovered by either the Government or the Contractor, or if existing safeguards have ceased to function, the discoverer shall immediately bring the situation to the attention of the other party.
5. The Contractor shall comply with Section 1634 of Public Law 115-91 that prohibits use of any hardware, software, or services developed or provided, in whole or in part, by— (1) Kaspersky Lab (or any successor entity); (2) any entity that controls, is controlled by, or is under common control with Kaspersky Lab; or (3) any entity of which Kaspersky Lab has majority ownership.

#### Appendix A: GSA Tailoring of NIST 800-53 Controls

The GSA Control Tailoring Workbook contains GSA defined values for NIST SP 800-53 Security and Privacy Controls. The workbook is not publicly available; contact the contracting officer who will coordinate with the GSA Office of the Chief Information Security Officer to determine if it can be made available.