



Information Technology Requirements

State of Alaska

Department of Health & Social Services

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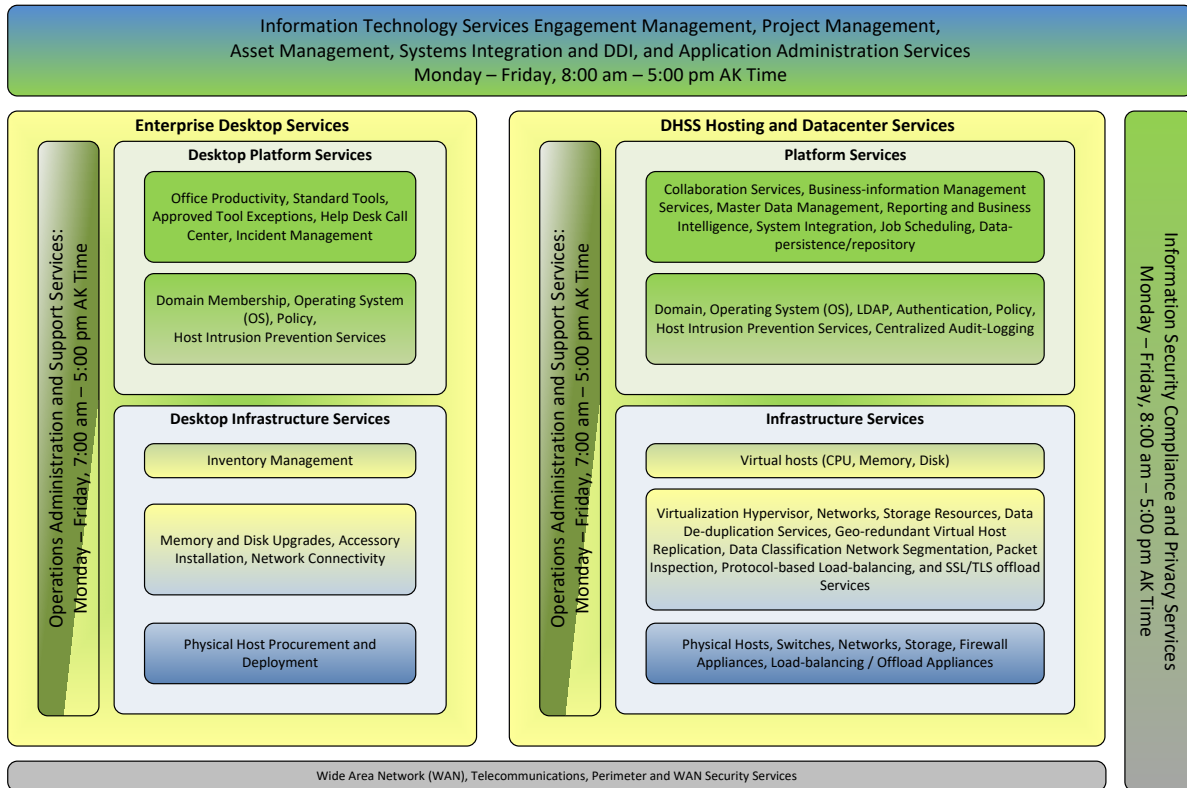
1 Purpose of IT Requirements

The State of Alaska Department of Health and Social Services (DHSS) has adopted the Medicaid Information Technology Architecture (MITA) standards and has embraced an Information Technology (IT) Roadmap for shared services using our Enterprise Service Bus (ESB), and Master Client Index (MCI). The response to this request must include addressing how and if the proposed product solution will integrate into this environment and not be a standalone system.

1.1 IT Services Organization Summary

DHSS Division of Finance and Management Services (FMS) Information Technology Services (ITS) section operates a full-service information technology services organization within DHSS. As the diagram below indicates, this includes:

Service Line	Description
Engagement and Service Delivery Management	Services to engage with customers and manage delivery of all IT services
Project Portfolio Management	Services to support project management enterprise process development and execution
Asset Management	Services to manage software licensing and other software and information assets
Systems Integration and DDI	Services to support system architecture development, integration between DHSS systems and information system design, development and implementation
Systems Operations and Administration	Services to support technical system operations and system administration
Information Security Compliance and Privacy	Services to support legal compliance with information security, privacy, and ongoing development/maintenance of security policy and practice
Enterprise Desktop and Mobility	Services to define, deploy and support the DHSS enterprise desktop and mobility endpoints
DHSS Hosting and Datacenter	Services to design, implement and operate standard information technology infrastructure and platform offerings
DHSS Wide Area Network, Telecommunications and Perimeter Security	Services to integrate the DHSS LAN with the State of Alaska (SOA) wide area network, telecommunications and perimeter security managed by Department of Administration (DOA) Office of Information Technology (OIT)



1.2 IT Requirements Intent and Approach

The Offeror should understand the intent and approach of the IT Requirements. DHSS ITS values our partner relationships with external vendors, contractors and grantees. DHSS ITS is focused on providing the best value to our customers by supporting IT procurements from the RFP solicitation process all the way through project initiation, planning, execution and closing. At a high-level, these IT requirements support the proposal solicitation by meeting two goals:

1. The requirements provide key operational insights into DHSS ITS service delivery approach to help Offerors understand the DHSS ITS organization they are proposing to engage with, and to give Offerors the opportunity to shape their proposals to best fit the team of DHSS program, DHSS ITS, and Offeror staff that will work together to deliver the solution.
2. The requirements identify specific answerable requirements statements and questions that Offerors must meet for responsiveness.

To meet those two goals, the IT requirements are structured into services and standards sections corresponding to a service line view of the DHSS ITS organization. For example, the solicitation-relevant services and requirements for end-user desktop configurations are located in the “Enterprise Desktop Services and Standards” section.

DHSS IT recognizes that Offerors may consider proposing one or more of the following options:

- DHSS hosted and managed solution components;
- 3rd party hosted, DHSS managed solution components;

- Software as a Service (SaaS) and Anything as a Service (XaaS) 3rd party hosted, 3rd party managed solution components. Software licensing and delivery model in which software is licensed on a subscription basis and is centrally hosted. XaaS is a general, collective term that refers to the delivery of anything as a service. It recognizes the vast number of products, tools and technologies that vendors now deliver to users as a service over a network -- typically the internet -- rather than provide locally or on-site within an enterprise.

To support these scenarios, each service and standards section includes subsections that apply to all procurements, plus two specific subsections to address variations and exceptions for “DHSS Managed Off-site Hosting Scenarios” and “Software as a Service (SaaS) and Anything as a Service (XaaS) Scenarios”.

Offerors should read each section carefully to understand how DHSS ITS applies a particular service-line to procured services and what specific requirements questions and statements must be answered.

2 Technical Qualifications Response

2.1 Minimum Qualifications

Offerors must complete **Required Vendor Response - DHSS IT Requirements**, which correspond to the requirements described in Section 3 of this document, and return it as part of their proposal. A failure to complete and return this IT Reference will result in a proposal being deemed non-responsive.

2.2 Understanding of the Technical Aspects of the Project

In the body of their proposal, offerors must provide comprehensive narrative statements that illustrate their understanding of the technical requirements and must respond to all applicable sections, or respond why a section is not applicable.

A failure to demonstrate how the solution being proposed addresses the Technical Requirements outlined may result in the proposal deemed non-responsive and rejected.

3 State of Alaska DHSS Technology Services, Standards and IT Road Map

Information technology services for DHSS agencies are provided by DHSS Division of Finance and Management Services (FMS) Information Technology Services (ITS). DHSS ITS provides the following functions: maintenance of the DHSS Data Centers in Juneau and Anchorage; project execution support; operational support; and integration assistance for systems hosted on site.

3.1 DHSS Information Technology Services Staffing Support

3.1.1 DHSS IT General Staffing Support Model Defined

Regardless of whether the Offeror proposes a totally outsourced, partially outsourced, or hosted on DHSS Premise solution, DHSS ITS standard general staffing support hours are Monday through Friday 8:00 AM to 5:00 PM Alaska Time. Support from DHSS ITS required outside of those hours, for any reason, must be defined and documented. This must include the duties and expectations for DHSS ITS staff.

3.1.1.1 Requirement

The Offeror must define and document schedule of hours they plan to operate, including the time zone(s) they plan to operate from. The hours of operation must be expressed in Alaska Time. The Offeror must identify hours their staff will work outside of the DHSS ITS standard support hours defined in this section. The Offeror must identify the daily schedule of hours during which they expect DHSS ITS and DHSS Program staff to support the activities under the execution of the proposal. The Offeror must commit to deliver a plan that includes Offeror and DHSS agreed upon daily scheduled hours. The plan must also include the schedule of Offeror and State of Alaska observed holidays.

3.1.2 DHSS ITS Project Staffing Support Model Defined

DHSS ITS Projects are supported by DHSS ITS supported Engagement Management, Project Management, Systems Integration and Development Service lines. The standard support hours for these service lines are Monday through Friday 8:00 AM to 5:00 PM Alaska Time. Project support from DHSS ITS required outside of those hours, for any reason, must be defined and documented. This must include the duties and expectations for DHSS ITS staff.

3.1.2.1 Requirement

The Offeror must define and document schedule of hours they plan to operate, including the time zone(s) they plan to operate from. The hours of operation must be expressed in Alaska Time. The Offeror must identify hours their staff will work outside of the DHSS ITS project staffing support hours defined in this section. The Offeror must identify the daily schedule of hours during which they expect DHSS ITS and DHSS Program staff to support the activities under the execution of the proposal. The Offeror must commit to deliver a plan that includes Offeror and DHSS agreed upon daily scheduled hours. The plan must also include the schedule of Offeror and State of Alaska observed holidays.

3.1.3 DHSS On-going Operations Staffing Support Model Defined

DHSS IT standard support hours are Monday through Friday 7:00 AM to 5:00 PM Alaska Time. Support from DHSS ITS required outside of those hours, including evening and weekend batch job support, must be defined and documented. This must include the duties and expectations for DHSS ITS staff.

3.1.3.1 Requirement – Offeror-managed production operations phases

If the proposal includes Offeror-managed production operations phases for the delivered solution, the Offeror must define and document schedule of hours they plan to operate, including the time zone(s) they plan to operate from. The hours of operation must be expressed in Alaska Time. The Offeror must identify hours their staff will work outside of the DHSS ITS operations staffing support hours defined in this section. The

Offeror must identify the daily schedule of hours during which they expect DHSS ITS and DHSS Program staff to support the production operations activities under the execution of the proposal. The Offeror must commit to deliver a plan that includes Offeror and DHSS agreed upon daily scheduled hours for production operations. The plan must also include the schedule of Offeror and State of Alaska observed holidays.

3.1.3.2 Requirement – DHSS-managed Production Operations Phases

For DHSS-managed production operations phases, including the period of operations after end of the proposed activities and end of contract, the Offeror must define and document the schedule of hours of system operations for the solution. The schedule will include and differentiate hours for end-user access and hours for technical support, including any offline batch or after-hours system maintenance activities.

Outside the 7 a.m. to 5 p.m. standard operating hours, DHSS IT provides only limited on-call and emergency support. The Offeror must include activities in the proposal to define and agree upon any and all on-call or after-hours support. The Offeror's proposal must include a solution that requires no regular after-hours on-shift system support.

The Offeror must commit to deliver a plan that includes Offeror and DHSS agreed upon daily scheduled hours for production operations. The plan must also account for the schedule of State of Alaska observed holidays.

If the Offeror's proposed solution will require regular after-hours on-shift system support, the Offeror must reach formal agreement via:

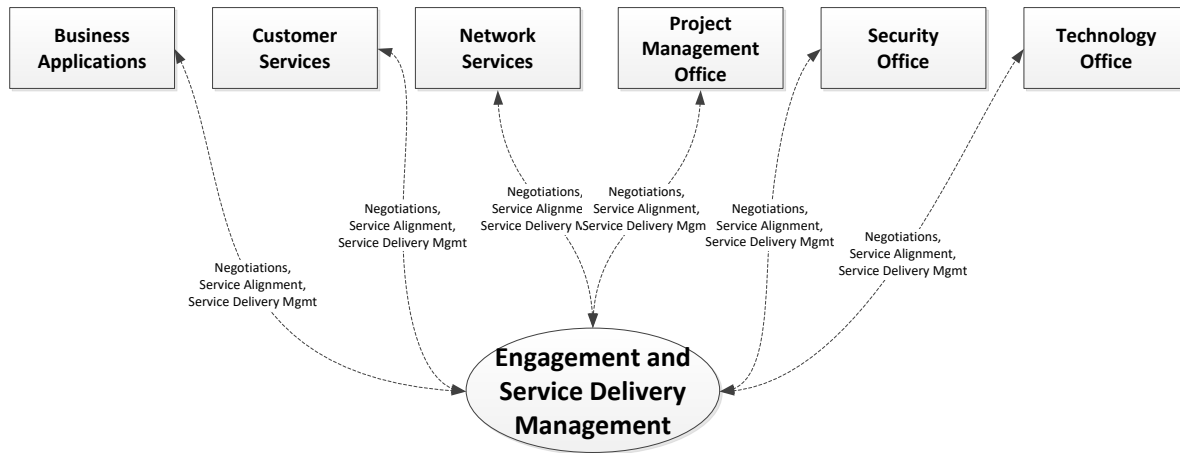
- An accepted Operations Support Model deliverable,
- The OIT Department Technology Officer for DHSS and DHSS FMS Assistant Commissioner approval

This agreement must be reached at least 6 months prior to commencement of proposed training activities that precede DHSS assuming operational responsibilities for the solution.

3.2 Engagement and Service Delivery Management Services and Standards

Engagement and Service Delivery Management Services includes the activities DHSS ITS performs to engage with our DHSS Program staff, and manage delivery of all IT services. This includes defining the needs, assisting with DHSS IT Governance needs alignment and change request processes, and applying and managing the correct DHSS ITS service-lines for specific DHSS ITS initiatives and procurements.

Engagement and Service Delivery Management Services is matrixed per the following organizational mapping:



3.2.1 Contract Negotiations ITS Review and Approval

DHSS ITS participates directly on the contract negotiations team to review and approve all IT related contract elements further specified in the final contract.

3.2.1.1 Requirement – IT Contract Review

The Offeror must be prepared to work with DHSS ITS, Procurement and DHSS Program staff to review and approval all IT related contract elements.

3.2.2 Project Kickoff Service Alignment Conference

As part of project kickoff activities, DHSS ITS and Program representatives will meet with the Offeror’s execution team to agree upon the necessary DHSS ITS service lines required to support the execution of the procurement. This activity will be based on a review of the scope and schedule defined in the solicitation, the proposal and the final contract. The outcome will be a list of DHSS ITS service lines supporting execution of the procurement and a list of any gaps identified by the Service Alignment Conference team. Gaps identified may include services or products DHSS ITS does not support, DHSS ITS staffing resource constraints, or other gaps. See IT Reference B—DHSS Project Management Requirements “Project Initiation/Kick Off meeting” for information about additional project kick off activities.

3.2.2.1 Requirement – DHSS ITS Service Alignment Conference

The Offeror must include project activities to reach agreement with DHSS ITS and DHSS Program staff on DHSS ITS support service lines and identify any gaps. All gaps identified must include a plan of action to address and resolve the gaps.

3.2.3 DHSS Service Line Engagement and Planning

DHSS ITS recognizes that different procurements require customized support activities to succeed within scope, schedule, and resource constraints. To quickly align with a given procurement’s constraints and ensure the best outcome, the DHSS ITS service lines identified to support the procurement will work with DHSS Program and Offeror staff to roadmap the service line engagement schedule, review the gaps identified in the service alignment conference and detail the action plans to address those gaps.

3.2.3.1 Requirement – DHSS IT Service Line Engagement and Planning Workshops

The Offeror must include project activities to reach agreement with DHSS ITS and DHSS Program staff representatives on the DHSS ITS service line engagements from DHSS ITS service lines identified in the Service Alignment Conference deliverables. These activities must roadmap the schedule of service line engagements, identify the service line team members, review the gaps previously identified and detail the action plans to address those gaps.

3.2.4 DHSS Service Line Management Processes and Tools

DHSS ITS leverages standard operating procedures and management tools to document and manage work requested within a given service-line. Regardless of which work management tools the Offeror proposes, DHSS ITS service line staff will use the standard, defined processes and management tools to document and manage their work. For cost and operational efficiency, DHSS ITS recommends that the Offeror align their processes and tools with DHSS ITS processes and tools. The Offeror may propose leveraging the DHSS processes and tools in their proposal.

3.2.4.1 Requirement – Service Line Management Processes and Tools Alignment

The Offeror must be prepared to work with DHSS ITS service line management processes and tools. For each DHSS IT service line supporting the project, the Offeror must review the applicable processes and tools with DHSS ITS and DHSS Program staff to align processes and tools of the project with those used by DHSS ITS.

If the Offeror and DHSS Program staff determine a benefit to using alternate tools, the Offeror must accept the cost of any duplication of effort required of either the Offeror's staff or DHSS Program staff to maintain and synchronize requirements, documentation, service requests or other artifacts applicable to the DHSS ITS service line.

Whichever tools are selected, the Offeror must document agreed upon decisions made with DHSS ITS and DHSS Program staff.

For efficiency, the Offeror may choose to perform this activity in bulk across all DHSS ITS service lines once the results of the Service Alignment Conference are finalized, or as an element of the Service Line Engagement and Planning, or both.

DHSS ITS Service Line Management Processes and Tools are reviewed and improved over time. If more than 3 months passes between the process and tool alignment and the engagement with a particular DHSS ITS service line (including a 3 month lapse of engagement), the Offeror must participate in a re-alignment activity with that service line to ensure the Offeror, DHSS IT and DHSS Program staff understand the current processes and tools.

3.2.5 RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - DHSS Managed Off-site Hosting Scenarios

All DHSS Engagement and Service Delivery Management Services and standards apply to DHSS managed off-site hosting scenarios. See section 1.2 IT Requirements Intent and Approach for more information about DHSS Managed Off-site Hosting Scenarios.

3.2.5.1 Requirement

The Offeror must understand and acknowledge that all DHSS Engagement and Service Delivery Management Services and standards apply to DHSS managed off-site hosting scenarios.

3.2.6 Software as a Service (SaaS) and Anything as Service (XaaS) Scenarios

All DHSS Engagement and Service Delivery Management Services and standards apply to SaaS/XaaS scenarios.

3.2.6.1 Requirement

The Offeror must understand and acknowledge that all DHSS Engagement and Service Delivery Management Services and standards apply to Software as a Service (SaaS) and Anything as a Service (XaaS) scenarios.

3.3 Project Portfolio Management Services and Standards

See IT Reference B—DHSS Project Management Requirements.

3.3.1 RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - DHSS Managed Off-site Hosting Scenarios

All DHSS Project Portfolio Management Services and Standards apply to DHSS managed off-site hosting scenarios.

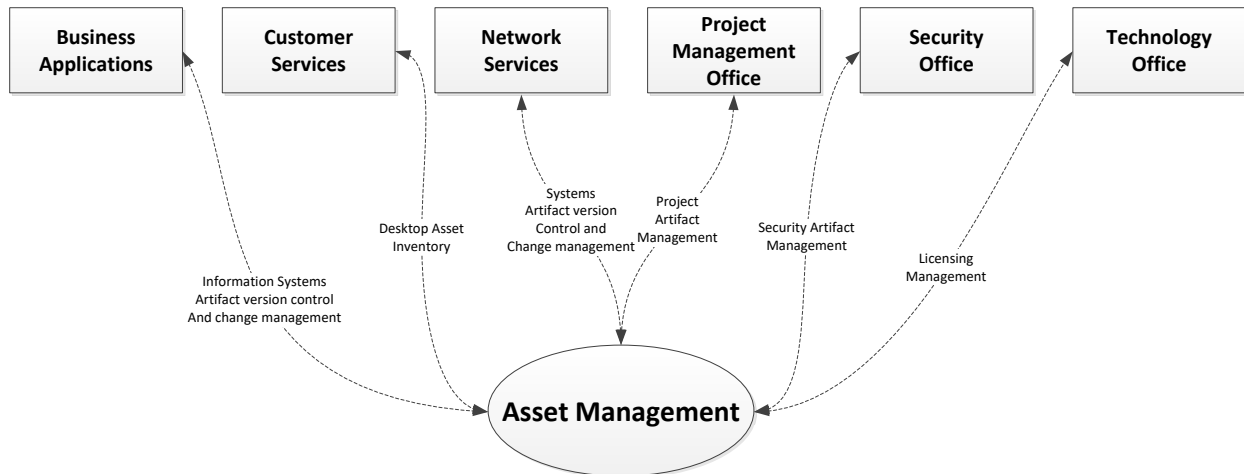
3.3.2 Software as a Service (SaaS) and Anything as a Service (XaaS) Scenarios

All DHSS Project Portfolio Management Services and Standards apply to SaaS/XaaS scenarios.

3.4 Asset Management Services and Standards

Asset Management Services includes the activities DHSS ITS performs to manage software licensing and other software and information assets. DHSS considers data, software source code, configuration files, binaries, licenses and configured systems all as “assets”. DHSS Policies and Standard Operating Procedures require that stewards responsible for creating and maintaining assets properly manage these assets. This means asset stewards should apply proper inventory and version control practices and procedures to ensure individual assets are identified and version consistent artifact sets can be recreated to support disaster recovery, testing, audit and other scenarios.

DHSS Asset Management Services supports other DHSS ITS service lines through processes and tools that implement version control, software license inventory and software procurement assurances. Asset Management Services is matrixed per the following organizational mapping:



3.4.1 Artifact Version Management

3.4.1.1 Requirement

Requirements, design documents, source code, configuration files and binaries that are versioned through time must be managed in one or more version control repositories such that any released version of these artifacts can be retrieved later to rebuild the information system or application. Platforms that support configuration changes via a graphical user interface must support an extract of the changes made that can be loaded into the version control repository and release-managed in an equivalent manner to source code.

DHSS ITS operates a leading artifact version management repository. See IT Reference D—Alaska Department of Health and Social Services IT Technology Standards for details on this tool. The Offeror must transfer ownership of all project artifacts to DHSS as part of the scope of work, including the effort to convert/migrate the artifacts into the DHSS artifact version management repository. To reduce project overhead and transition costs, the Offeror is encouraged to use the DHSS artifact version management repository during project execution.

3.4.2 Licensing Agreement

3.4.2.1 Requirement

The license shall include, but not be limited to:

- All supporting programs in the most current version;
- All scripts, programs, transaction management or database synchronization software and other system instructions for operating the system in the most current version;
- All data files in the most current version;
- User and operational manuals and other documentation;
- System and program documentation describing the most current version of the system, including the most current versions of source and object code;
- Training programs for the State and other designated State staff, their agents, or designated representatives, in the operation and maintenance of the system;
- Any and all performance-enhancing operational plans and products, exclusive of equipment; and

- All specialized or specially modified operating system software and specially developed programs, including utilities, software, and documentation used in the operation of the system.

Ongoing upgrades of the application software and supporting 3rd party programs must be provided through the end of the contract.

Any other specialized software not covered under a public domain license to be integrated into the system must be identified as to its commercial source and the cost must be identified in the Cost proposal. DHSS may, at its option, purchase commercially available software components itself.

The contractor must convey to DHSS, upon request and without limitation, copies of all interim work products, system documentation, operating instructions, procedures, data processing source code and executable programs that are part of the system, whether they are developed by the employees of the contractor or any subcontractor as part of this contract or transferred from another public domain system or contract.

The provision of this section related to ownership/support for the product must be incorporated into any subcontract that relates to the development, operation, or maintenance of any component part of the system.

3.4.3 Software Procurement Assurance – Guaranteed Access to Software

3.4.3.1 Requirement

DHSS shall have full and complete access to all source code, documentation, utilities, software tools and other similar items used to develop/install the proposed solution or may be useful in maintaining or enhancing the equipment and solution after it is operating in a production environment. For any of the above-mentioned items not turned over to DHSS upon completion of the installation, the Offeror must provide a guarantee to DHSS of uninterrupted future access to, and license to use, those items. The guarantee must be binding on all agents, successors, and assignees of the contractor and subcontractor. State access to source code may be protected by use of a third party escrow account. If an escrow account is used, the terms must include at a minimum:

- Update of the source code in escrow as often as required for the source code to reflect the current version of each application of the software licensed by DHSS;
- DHSS has the right to view or access the source code to:
 - Verify the source code's completeness and readability of the media;
 - Obtain a copy of the source code in the event of a filing of Bankruptcy where the Offeror is no longer able to provide acceptable service;
 - Obtain a copy of the source code if the Offeror ceases to do business completely, or to do business in the line of business marketplace the system supports.

DHSS reserves the right to consult legal counsel as to the sufficiency of the licensing agreement and guarantee of access put forth by the Offeror.

3.4.4 Software Procurement Assurance – Federal Rights

3.4.4.1 Requirement

If a federal grant was used for this solution, the federal government reserves a royalty-free, non-exclusive, and irrevocable license to reproduce, publish, or otherwise use, and to authorize others to use, for federal government purposes, the copyright in any work developed under a grant, sub-grant.

3.4.5 Data Ownership

3.4.5.1 Requirement – Data Ownership

DHSS shall have unlimited rights to use, disclose or duplicate, for any purpose whatsoever, all information and data developed, derived, documented, installed, improved, or furnished by the Offeror under this contract. All files containing any DHSS information are the sole and exclusive property of DHSS. The Offeror agrees not to use information obtained for any purposes not directly related to this contract without prior written permission from DHSS. Offeror agrees to abide by all federal and state confidentiality requirements.

In addition, the Offeror agrees to provide to DHSS, at the end or at any time during the contractual period, the data managed by the solution, in whole or in part, in a format as agreed upon by both parties.

3.4.6 RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - DHSS Managed Off-site Hosting Scenarios

All DHSS Asset Management Services and Standards apply to DHSS managed off-site hosting scenarios. See *section 1.2 IT Requirements Intent and Approach* for more information about DHSS Managed Off-site Hosting Scenarios.

3.4.6.1 Requirement

The Offeror must understand and acknowledge that all DHSS Asset Management Services and Standards apply to DHSS managed off-site hosting scenarios.

3.4.7 Software as a Service (SaaS) and Anything as a Service (XaaS) Scenarios

Software as a Service (SaaS) and Anything as a Service (XaaS) delivery models afford DHSS the ability to leverage the business value of information management solutions without bearing the costs and risks of having to maintain development and operational infrastructure. This value is achieved when the SaaS/XaaS vendor carries the burden of managing technical operations and ongoing development/maintenance, while collaborating with their clients to meet and maintain the functional requirements and integrity of the solution.

DHSS ITS expects that, by owning ongoing maintenance and technical operations, SaaS/XaaS solutions implicitly provide a limited degree of freedom to deviate from DHSS ITS Asset Management Services and Standards. Specifically, when federal funding rights do not apply, and when DHSS is not performing technical services administration within the SaaS/XaaS hosting environment, SaaS/XaaS solutions may avoid the requirement to transfer source code artifacts identified in *section 3.4.1*.

3.4.7.1 Requirement

If proposing SaaS/XaaS components for all or part of the solution, the Offeror's proposal must comply with all Asset Management Services and Standards requirements. The Offeror may propose leveraging variations or exceptions under this subsection, *Software as a Service Scenarios (SaaS) and Anything as a Service (XaaS)*. If the Offeror wishes to leverage variations or exceptions, these must be defined.

3.4.7.2 Requirement – Data Stewardship

The Offeror will maintain Alaska's data in the solution for the life of the contract. The Offeror must explain how data will be archived for the solution. Turnover requirements will be negotiated between DHSS and the Offeror to ensure that all DHSS data will be returned to DHSS in a cooperative manner at the close of the

contract or the decommissioning of the solution. DHSS data may include deliverables, reports, configuration details, business requirement documents, test plans, scripts, and results.

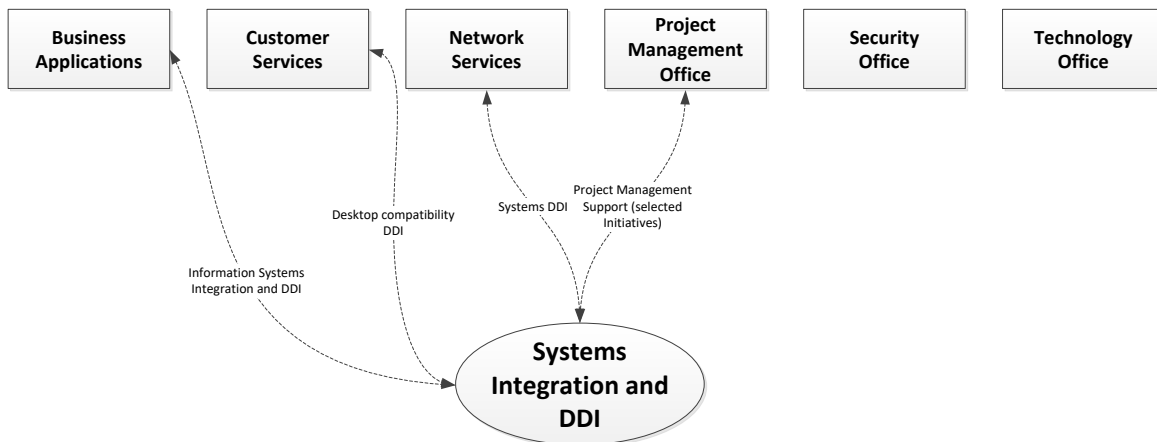
3.4.7.3 Requirement – location identification

The offeror will identify the location of any non-DHSS hosted external information systems that receive, process, store, or transmit proposed solution data.

3.5 Systems Integration and DDI Services and Standards

Systems Integration and Design, Development, and Implementation (DDI) Services include the activities DHSS ITS performs to support system architecture design and development, integration between DHSS systems, and information system DDI.

Systems Integration and DDI Services is matrixed per the following organizational mapping:



DHSS ITS provides a full range of Systems Integration and DDI Services. These services leverage DHSS standards to ensure maximum leverage and scalability of staff and other resources. DHSS expects the Offeror to understand and align their proposal and activities with DHSS Systems Integration and DDI Services and standards. While maintaining working alignment will be an ongoing activity during the project, there are several specific areas the Offeror must demonstrate alignment during the proposal. These proposal alignments include information exchange architecture, master data management, the Integrated Resource Information System (IRIS) and Alaska Data Enterprise Reporting (ALDER) integration, technical services and development platform, DHSS managed off-site hosting considerations, and SaaS/XaaS scenarios.

3.5.1 Information Exchange Architecture

To simplify the effort and reduce costs of DHSS systems implementation and long term operations, DHSS has implemented an Enterprise Service Bus (ESB) that supports system integration and information exchange. Additionally, DHSS has partnered with the healthConnect to leverage the Alaska statewide Health Information Exchange (HIE) for health information exchange. Together the ESB and the HIE can substantially reduce the operational complexity of moving data between systems hosted On-DHSS premise and Off-site.

3.5.1.1 Requirement

Data exchange interfaces must leverage the DHSS ESB and/or the statewide HIE, where applicable.

3.5.2 Master Data Management

DHSS has implemented master data management services for client/consumer/person demographic records via the DHSS Master Client Index (MCI). The MCI connects client demographic records across applications and systems that create, read, or update client, consumer or other person demographic data in DHSS systems.

The Person Services WSDL describes the web-services interface for accessing the DHSS MCI. Solutions that create, read, or update client, consumer, or other person demographic data must integrate with the MCI to ensure their demographic records are registered in the MCI and appropriately merged with matching client records in the index. Such solutions must also provide updates to the MCI that handle record duplication, deactivation. See IT Reference E—Person Services WSDL for the web service description.

3.5.2.1 Requirement – Master Client Index (MCI) Integration

The Offeror must integrate their proposed solution with the DHSS Master Client Index (MCI) if the Offeror's proposed solution will store person demographic data of clients, members, beneficiaries or other individuals who:

- Apply for or receive DHSS program services or benefits, or
- Are the subject of a DHSS registry, or
- Are a participant in a case, filing-unit, or other group-based for which DHSS expends funds or must measure services

The Offeror's proposed integration with the DHSS MCI must ensure the end-users of the solution can leverage the Person service operations to register and maintain their person demographic records in the MCI. This must include interactions that update the MCI when record duplication, deactivation and similar record management scenarios occur within the scope of the Offeror's proposed solution.

3.5.3 RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - IRIS and ALDER Integration

DHSS uses the State of Alaska ERP system, IRIS, for managing finance, accounting, property-asset, and HR management functions. DHSS uses the State of Alaska ALDER data warehouse for reporting and extracting finance, accounting and HR data. Solutions that include these functions should plan for a gap analysis to determine the appropriate integration approach that avoids duplication of services and addresses developing and integrating complementary solution services and functions.

3.5.3.1 Requirement

Offerors whose proposed solution includes finance, accounting and HR functions must plan to conduct a gap analysis activity with DHSS ITS, DHSS Program staff, and Department of Administration Division of Finance IRIS support subject matter experts, to determine which system will own which processes, how the systems will integrate and where the data will live. Offeror's proposal must include activities to support this gap analysis and DDI activities to interface between IRIS, ALDER and the proposed solution.

3.5.4 Authentication and Single Sign On

DHSS has established a standard authentication platform, using Microsoft's Active Directory (AD) to support authentication for DHSS hosted systems. DHSS AD provides a uniform authentication mechanism for DHSS staff and sponsored external partner/contractor staff to manage authorized access to department information systems. Leveraging the DHSS AD allows the Offeror's solution to inherit the account management, authentication, and audit-logging features of the DHSS AD to validate authorized access and meet several technical security controls.

3.5.4.1 Requirement – Single Sign On

The Offeror must integrate their solution with the Alaska DHSS AD. The integration must support authentication via the DHSS AD domain to authenticate access requests prior to authorization. The Offeror will include cost and activities in their proposal to support the DHSS AD integration.

DHSS has established a standard federated authentication platform, Microsoft Active Directory Federation Services (ADFS), to support single sign on authentication scenarios for DHSS employees who use systems external to the department that cannot integrate with the DHSS Active Directory. DHSS ADFS provides a uniform authentication mechanism for DHSS staff and sponsored external partner/contractor staff to manage authorized access to department information systems. Leveraging the DHSS ADFS allows the Offeror's solution to inherit the account management, authentication, and audit-logging features of the DHSS AD to validate authorized access and meet several technical security controls. Additionally, DHSS ADFS supports the improved user experience of using their existing DHSS accounts, rather than having to maintain a separate set of credentials for authentication.

3.5.4.2 Requirement – DHSS ADFS Based Single Sign On for SaaS/XaaS and managed Commercial Off the Shelf (COTS)

The Offeror must integrate their solution with the Alaska DHSS ADFS. The integration must support authentication via the DHSS ADFS to authenticate access requests prior to authorization. The Offeror will include cost and activities in their proposal to support the ADFS integration.

3.5.5 Technical Services and Development Platform

DHSS has established a standard technical services platform for developing and operating software solutions. Additionally, DHSS practices a simple software development lifecycle (SDLC), and employs structural code scanning tools within the practice of a secure development lifecycle (SecDLC). DHSS expects the Offeror to align their proposal with this DHSS standard technical services platform to the maximum extent possible.

DHSS ITS operates a leading SDLC management platform. See IT Reference D for details on this tool. To reduce project overhead and transition costs, the Offeror is encouraged to consider using the DHSS artifact version management repository.

3.5.5.1 Requirement – Development Platform

The Offeror will use the software identified in IT Reference D for the development and deployment of this application. The Offeror must state which version the application components are designed in and how this solution will be accessed in the DHSS environment. You will need to identify what skills and expertise would be needed to support your proposed infrastructure.

3.5.5.2 Requirement – Software Development Lifecycle (SDLC)

The Offeror must apply a methodology that demonstrates key elements of SDLC, including:

- Gathered and validated requirements and acceptance criteria artifacts;
- Documented and validated design artifacts;
- Documented development and build tools and processes;
- Versioned and managed development artifact change sets;
- Documented deployment and promotion processes for moving builds and release candidates from lower environments to higher-confidence environments and ultimately production (e.g., development > system integration test > user acceptance test > production & training);
- Documented quality assurance, system test and user acceptance test script and results artifacts;
- Documented release management procedures.

The Offeror must use a set of industry standard tools to track and manage artifacts of the SDLC and must align this toolset with the standard DHSS SDLC tools.

3.5.5.3 Requirement – Secure Development Lifecycle (SecDLC)

The Offeror must complete software development in a manner to address the CWE/SANS Top 25 Most Dangerous Programming Errors.

Development Environment will include:

- **Secure Coding** - The Offeror shall disclose what tools are used in the software development environment to encourage secure coding.
- **Disclosure** - The Offeror shall document in writing to the Purchaser all third party software used in the software, including all libraries, frameworks, components, and other products, whether commercial, free, open-source, or proprietary.
- **Evaluation** - The Offeror shall make reasonable efforts to ensure third party software meets all the terms of this agreement and is as secure as the custom developed code developed under this agreement.

3.5.6 RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - DHSS Managed Off-site Hosting Scenarios

All DHSS Systems Integration and DDI Services and Standards apply to DHSS managed off-site hosting scenarios. See *section 1.2 IT Requirements Intent and Approach* for more information about DHSS Managed Off-site Hosting Scenarios.

3.5.6.1 Requirement

The Offeror must understand and acknowledge that all DHSS Systems Integration and DDI Services and Standards apply to DHSS managed off-site hosting scenarios.

3.5.7 Software as a Service (SaaS) and Anything as a Service (XaaS) Scenarios

Software as a Service (SaaS) and Anything as a Service (XaaS) delivery models afford DHSS the ability to leverage the business value of information management solutions without bearing the costs and risks of having to maintain development and operational infrastructure. This value is achieved when the SaaS vendor carries the burden of managing technical operations and ongoing development/maintenance, while collaborating with their clients to meet and maintain the functional requirements and integrity of the solution.

DHSS IT expects that, by owning ongoing maintenance and technical operations, SaaS solutions implicitly provide a limited degree of freedom to deviate from DHSS IT Systems Integration and DDI Services and Standards. Specifically, when federal funding rights do not apply, and when DHSS is not performing technical services administration within the SaaS hosting environment, SaaS solutions may employ non-compliant infrastructure and non-compliant platform components in their design and implementation.

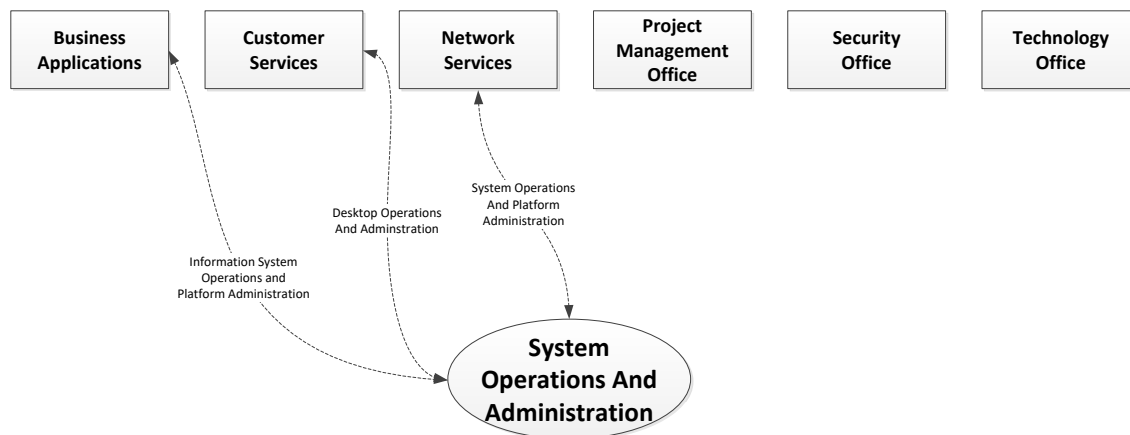
3.5.7.1 Requirement

When federal funding rights apply, see section 3.4.4 Software Procurement Assurance – Federal Rights, the Offeror’s proposed solution must employ DHSS IT Systems Integration and DDI Services and Standards compliant platform components. This requirement supports State of Alaska maintenance risk mitigation in the event the Offeror determines to discontinue the service at a future date, and DHSS must assume maintenance and/or operations. If the Offeror cannot meet this requirement, they may propose an operational contingency statement the State of Alaska can consider as a viable risk mitigation alternative to assuming the future maintenance risks.

3.6 Systems Operations and Administration Services and Standards

System Operations and Administration Services includes the activities DHSS ITS performs to support technical system operations and system administration. This section describes systems and information systems administration services that support solutions operating in production.

System Operations and Administration Services is matrixed per the following organizational mapping:



3.6.1 Administration Services and Standards

DHSS ITS operates and manages technical services for DHSS information systems and applications. This includes ongoing administration, configuration monitoring and security patching of the underlying software components of the solution. Typically, these are the components that support technical services such as:

Business Service	Example Technical Service Component
Collaboration	Microsoft SharePoint
	Microsoft Office / O365
Business Information Management	Microsoft .NET

Business Service	Example Technical Service Component
	Microsoft Internet Information Services
	Microsoft Dynamics CRM
Master Data Management	Visionware MultiVue
Reporting and Business Intelligence	Microsoft SQL Server Reporting Services
	Microsoft SQL Server Analysis Services
	Microsoft Power Query / Power BI
	Microsoft Machine Learning
System Integration	Microsoft BizTalk
	Microsoft Message Queue
	Visionware MultiVue
Job Scheduling	Microsoft SQL Server Agent
Data-persistence/repository	Microsoft SQL Server
Domain, Directory, Authentication, Policy	Microsoft Active Directory
Host Intrusion Prevention, Policy, Anti-virus	Cybereason
Audit-logging	Splunk
Host Operating System	Microsoft Windows Workstation
	Microsoft Windows Server
Security Policy and Compliance	RSA Archer
Application Lifecycle Management	Microsoft Team Foundation Server
	Microsoft SQL Server Reporting Services
	Microsoft SharePoint

See IT Reference D for the list of actual technical service components administered by DHSS IT within the System Operations and Administration Services service line.

3.6.1.1 Requirement – Centralized Technical Administration

The Offeror must understand that information technology administration duties are restricted to qualified individuals within the centralized DHSS ITS section. DHSS Program staff outside the DHSS ITS section are not authorized to manage or administer technical information technology services. Examples of technical services include, but are not limited to administration of: relational database management systems (Oracle, SQL Server, MySQL, PostgreSQL, etc.); application servers (ASP.NET, JEE, PHP, etc.), desktop and server operating systems. Non-ITS, DHSS Program staff may be delegated administration of business services via secured, audited user-interfaces in the application, such as interfaces to create user accounts within the application, assign security roles within the application, maintain code-lookup tables, and other business administration functions. All business administration changes must be completed via a privileged, secured application user-interface that logs all data changes and which user made the change.

The Offeror must design all project execution and solution technical administration processes to respect the DHSS centralized technical administration principles and validate all technical administration designs with DHSS IT stakeholders in the System Operations and Administration Services service line.

The Offeror must include appropriate documentation and training for DHSS ITS staff in the technical services administration for the proposed solution.

3.6.1.2 Requirement – Authorized Access

The Offeror must follow DHSS standard operating procedures for obtaining and terminating access to DHSS facilities and systems. To support proper access management, the Offeror must notify the DHSS contract administrator of any personnel transfers or termination of Offeror personnel, including sub-contractors, who possess DHSS credentials and/or badges, or who have DHSS information system privileges, within fifteen (15) calendar days. Notification must be in writing. This personnel transfer and termination notification requirement may not be extended and does not supersede other Offeror personnel notification requirements with stricter timelines within the contract. (NIST 800-53 r4 PS 07 D)

3.6.2 *RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - DHSS Managed Off-site Hosting Scenarios*

All DHSS Systems Operations and Administration Services and Standards apply to DHSS managed off-site hosting scenarios. See *section 1.2 IT Requirements Intent and Approach* for more information about DHSS Managed Off-site Hosting Scenarios.

3.6.2.1 Requirement

The Offeror must understand and acknowledge that all DHSS Systems Operations and Administration Services and Standards apply to DHSS managed off-site hosting scenarios.

3.6.3 Software as a Service (SaaS) and Anything as a Service (XaaS) Scenario

Software as a Service (SaaS) and Anything as a Service (XaaS) delivery models afford DHSS the ability to leverage the business value of information management solutions without bearing the costs and risks of having to maintain development and operational infrastructure. This value is achieved when the SaaS/XaaS vendor carries the burden of managing technical operations and ongoing development/maintenance, while collaborating with their clients to meet and maintain the functional requirements and integrity of the solution.

DHSS ITS expects that, by owning ongoing maintenance and technical operations, SaaS/XaaS solutions implicitly provide a limited degree of freedom to deviate from DHSS ITS Systems Operations and Administration Services and Standards. Specifically, when federal funding rights do not apply, and when DHSS is not performing technical services administration within the SaaS/XaaS hosting environment, SaaS/XaaS solutions may employ non-compliant infrastructure and non-compliant platform components in their design and implementation.

3.6.3.1 Requirement

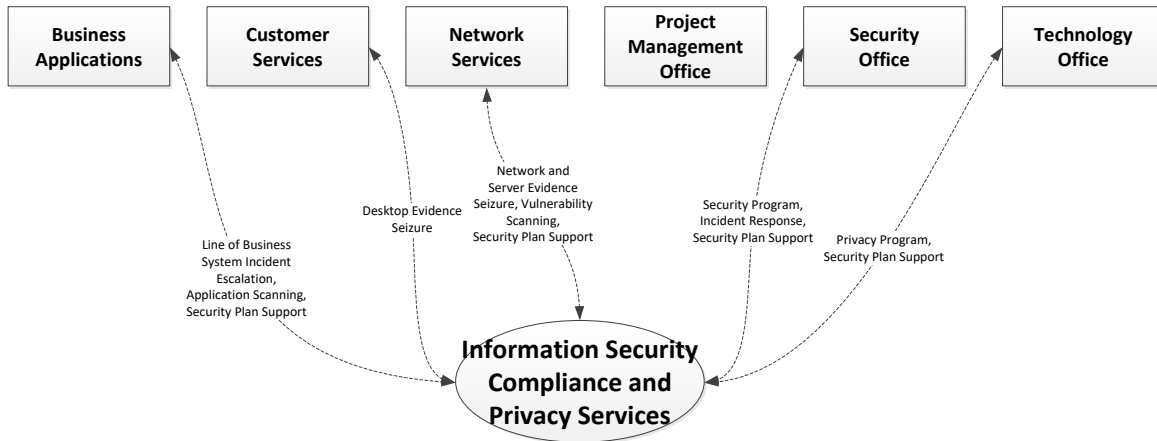
When federal funding rights apply, *see section 3.4.4*, the Offeror's proposed solution must employ DHSS ITS Systems Integration and DDI Services and Standards compliant platform components. This requirement supports State of Alaska operational risk mitigation in the event the Offeror determines to discontinue the service at a future date, and DHSS must assume maintenance and/or operations. If the Offeror cannot meet this requirement, they may propose an operational contingency statement the State of Alaska can consider as a viable risk mitigation alternative to assuming the future operational risks.

3.7 Information Security Compliance and Privacy Services and Standards

Information Security Compliance and Privacy Services include the activities DHSS ITS performs to support legal compliance with information security, privacy, and ongoing development/maintenance of

security policy and practice. DHSS maintains a robust information security compliance and privacy program. This section describes the information security compliance and privacy services and standards applied throughout the lifecycle of each DHSS information system.

Information Security Compliance and Privacy Services is matrixed per the following organizational mapping:



3.7.1 Data Retention/Destruction

Destruction of Electronic Protected Health Information (ePHI) and Personally Identifiable Information (PII) on electronic media requires that the organization employ sanitization mechanisms with the strength and integrity commensurate with the security category or classification of the information and includes: clearing (using software or hardware products to overwrite media with non-sensitive data); purging (degaussing or exposing the media to a strong magnetic field in order to disrupt the recorded magnetic domains); or destroying the media (disintegration, pulverization, melting, incinerating, or shredding).

3.7.1.1 Disposing of Printed Information

Approved techniques for disposing of printed information containing Electronic Protected Health Information (ePHI) or Personal Information (PII) include:

- Using a cross-cut shredder
- Incineration

3.7.1.2 Disposing of Information on Electronic Media

Approved techniques for disposing of information on fixed and removable media containing Electronic Protected Health Information (ePHI) or Personal Information (PII):

- Securely erase the media
 - DBAN the media or use Drive eRazer Pro
 - The technician who securely erased the media shall sign the Media Disposal Assurance Form (MDAF) (<http://doa.alaska.gov/dgs/property/pdf/Media%20Disposal%20Assurance%20Form.pdf>)
 - The technician's supervisor shall sign the MDAF
- A copy of the signed Media Disposal Assurance Form shall be attached to the Transfer Authorization Form (TAR) that accompanies the salvaged/surplus device(s), prior to acceptance by the Property Manager or

State Warehouses. Destruction of fixed media may be done using the following techniques only when secure erase is not technically feasible:

- Magnetic Platters drilled or Magnetic Platters removed and broken
- The technician who destroyed the fixed media shall sign the Media Disposal Assurance Form (MDAF)
(<http://doa.alaska.gov/dgs/property/pdf/Media%20Disposal%20Assurance%20Form.pdf>)
- The technician's supervisor shall sign the MDAF
- Destruction of removable media may be done using the following techniques only when a secure erase is not technically feasible:
 - Magnetic media severed or broken
 - If applicable, the technician who destroyed the removable media shall sign the Media Disposal Assurance Form (MDAF)
(<http://doa.alaska.gov/dgs/property/pdf/Media%20Disposal%20Assurance%20Form.pdf>)
 - If applicable, the technician's supervisor shall sign the MDAF

3.7.1.3 Requirement – Record Retention

The Offeror must comply with the DHSS policies and procedures for record retention (http://archives.alaska.gov/records_management/schedules/hss_retention.html) and disposal of sensitive information (IT Reference F—Data Destruction Information and References), if applicable.

3.7.1.4 Requirement – Data Destruction

The Offeror must provide procedures and agree to all data (including test data) destruction when contract ends if continuing operations and maintenance is not provided by the contractor.

3.7.2 Security Controls

Department, State, and Federal security standards are enforced through State of Alaska and DHSS policy and procedure. The procedures leverage FIPS 199 information security categorization and NIST 800-53 information security controls documentation. The DHSS Archer GRA system serves as system of record to capture this documentation in an “authorization package”. The Offeror must coordinate with the Department Security Office (DSO) to document the approach, methodology, roles and responsibilities, processes and tasks the Offeror will assume to complete the authorization package.

All sensitive, confidential, and/or restricted data is encrypted in-transit and at-rest. Criminal Justice Information Systems (CJIS) and those systems requiring MARS-E compliance must meet these encryption requirements using a FIPS 140-2 certified product.

Sensitive and/or confidential data includes Electronic Protected Health Information (ePHI), as defined in the Federal Health Insurance Portability and Accountability Act (HIPAA), Personally Identifiable Information (PII) as defined by the US Privacy Act and Personal Information (PI), as defined in the State of Alaska Personal Information Protection Act (APIPA).

Security controls are audited for the DHSS Risk Assessment regardless of whether an application/solution is hosted on premise or elsewhere. DHSS Security standards plus a sample paper version of the RSA Archer Authorization Package are included in IT Reference H – DHSS Sample Security Authorization Package – Moderate Control Set.

3.7.2.1 Requirement – Authorization Package

Within the proposed scope of work and activities, the Offeror must develop and submit:

- A complete Archer Authorization Package for review and approval by the state.
- The Authorization Package shall be compliant with, and reference (where appropriate) all State (enterprise) and DHSS IT Security Policies and all applicable State and Federal IT legislation. DHSS will facilitate the development and approval of the plan.

The Master Project Management Plan will detail the Offeror’s approach to all facets of security in relation to the proposed application. This should include listings of detailed tasks with task descriptions and schedules. The Offeror shall submit to the DHSS Project Manager draft versions of each Authorization Package for review and comment within four (4) weeks of the project’s initiation and gaining access to the RSA Archer system. DHSS comments shall be returned to the Offeror two weeks later. Offeror shall submit a final Authorization Package within two (2) weeks of receipt of DHSS comments on the draft Authorization Package.

The DHSS Business Associate Agreement or data usage agreement must be signed at contract award in accordance with IT Reference H:

ID	FAMILY	ID	FAMILY
AC	Access Control	MP	Media Protection
AT	Awareness and Training	PE	Physical and Environmental Protection
AU	Audit and Accountability	PL	Planning
CA	Security Assessment and Authorization	PS	Personnel Security
CM	Configuration Management	RA	Risk Assessment
CP	Contingency Planning	SA	System and Services Acquisition
IA	Identification and Authentication	SC	System and Communications Protection
IR	Incident Response	SI	System and Information Integrity
MA	Maintenance	PM	Program Management

3.7.2.2 Requirement – Security Control Verification

After the Authorization Package is complete it is subject for review and acceptance from the DHSS Department Security Office (DSO) and Department of Administration (DOA) State Security Office (SSO) for approval. The process for certification for production is based on the Authorization Package approval and application testing of the security controls. After a successful security test process is complete the system would be ready for acceptance and production based on security requirements. This may require changes and updates to the system by the Offeror. The Offeror must plan activities to support security control verification and an appropriate number of remediation iterations to address defects identified.

3.7.2.3 Requirement – Business Associate Agreement

If data is determined to be ePHI, the DHSS Business Associate Agreement must be signed at contract award in accordance with IT Reference H. Other types of data must be treated with appropriate confidential data handling and may be covered by a data usage agreement.

3.7.2.4 Requirement – Authority to Operate

Once all security compliance is established via approved system Authorization Packages(s) and signed Business Associate Agreements (BAA) or data usage agreements, as applicable, the solution will be granted an Authority to Operate (ATO) by the OIT Department Technology Officer for DHSS and the DHSS designated Division Data Owner. Phased projects must obtain the ATO for each phase completion resulting in a

production change. The Offeror must plan activities and milestones that support obtaining the ATO prior to production rollout. The Offeror's plan must include schedule contingencies to mitigate DHSS business risks of failing to obtain the ATO by the business deadlines. For example, if the DHSS organization using the solution must have the solution operating by December 1st, the Offeror's plan must include schedule contingencies and mitigations to ensure the ATO is received well ahead of December 1st with enough time for the DHSS organization to communicate with stakeholders if that deadline is at risk of being met.

3.7.3 Auditing and Logging Integration

All systems are required to be capable of generating data access and recording by user id requesting, or reading and writing of data.

For logging and audit, DHSS uses SPLUNK. All systems are required to be capable of generating data access and recording by user id requesting, or reading and writing of data. The application must be readily capable of generating logging and auditing in a concise summary that can be easily integrated into SPLUNK. The package that is produced by the application must be able to be inclusive of all the data for who is accessing, reading, and writing the data.

The application must be readily capable of generating logging and auditing in a concise summary that can be easily integrated into SPLUNK. The package produced by the application must be inclusive of all the data for who is accessing, reading, and writing the data.

3.7.3.1 Requirement

The Offeror's proposed solution must integrate with DHSS SPLUNK infrastructure. The Offeror's proposed solution must include activities to collaborate with DHSS ITS in establishing log collection activities for standard log formats and customizing log parsing for non-standard log formats.

3.7.4 Data Security

The Department of DHSS is considered a single covered entity in regards to HIPAA and APIPA which governs security requirements for ePHI, HIPAA, and PII. DHSS owns the data and can demand it at any time. Proposed solutions that leverage public or private data sources resulting in DHSS business decisions – especially where the business decision reflects a DHSS legal jurisdiction related to due process – must ensure DHSS retains access to all the data required to support the decision.

3.7.4.1 Requirement

The Offeror's proposed solution must include, define and validate the capabilities to return DHSS owned data to DHSS.

Recovery Point Objective (RPO) refers to the maximum amount of data loss – typically defined in terms of time – that may occur in the event of a system failure and consequent rollback to a known consistent state. *Recovery Time Objective (RTO)* refers to the maximum time that may pass between the point in time when a system failure occurs and the point in time when the system is recovered.

3.7.4.2 Requirement – Recovery Point and Recovery Time Objectives

The Offeror's proposed solution must include and define RPO and RTO capabilities.

3.7.5 Integration Security Controls

When system interfaces (data exchange between systems) and integration requirements exist for a system, integration security controls must be documented and implemented to ensure the confidentiality, integrity and availability of the data for all valid business consumers. To simplify the DHSS operating environment, and ensure that many of the required controls are met at the least cost, DHSS has implemented an Enterprise Service Bus (ESB) and partnered with the heathConnect to leverage the Alaska Health Information Exchange (HIE). Both the ESB and the HIE provide architectural system integration and data exchange services that can be leveraged for re-use by On-DHSS premise and Off-site hosted information systems.

3.7.5.1 Requirement

The Offeror must demonstrate leverage of existing DHSS security control investments by integrating with DHSS systems via the DHSS ESB and/or the statewide HIE.

3.7.6 RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - DHSS Managed Off-site Hosting Considerations

3.7.6.1 Requirement

All DHSS Information Security Compliance and Privacy Services and Standards apply to DHSS managed off-site hosting scenarios. See section 1.2 IT Requirements Intent and Approach for more information about DHSS Managed Off-site Hosting Scenarios.

3.7.6.2 Requirement

The Offeror must understand and acknowledge that all DHSS Information Security Compliance and Privacy Services and Standards apply to DHSS managed off-site hosting scenarios.

3.7.7 Software as a Service (SaaS) and Anything as a Service (XaaS) Scenarios

Software as a Service (SaaS) and Anything as a Service (XaaS) delivery models afford DHSS the ability to leverage the business value of information management solutions without bearing the costs and risks of having to maintain development and operational infrastructure. This value is achieved when the SaaS vendor carries the burden of managing technical operations and ongoing development/maintenance, while collaborating with their clients to meet and maintain the functional requirements and integrity of the solution.

DHSS IT expects that, by owning ongoing maintenance and technical operations, SaaS/XaaS solutions implicitly provide a limited degree of freedom to deviate from DHSS IT Information Security Compliance and Privacy Services and Standards. Specifically, when federal funding rights do not apply, and when DHSS is not performing technical services administration within the SaaS/XaaS hosting environment, SaaS/XaaS solutions may employ non-compliant infrastructure and non-compliant platform components in their design and implementation provided those infrastructure and platform components meet the security compliance requirements of the information managed by the SaaS/XaaS, and if applicable, the requirements in the DHSS Business Associate Agreement.

The Offeror's SaaS/XaaS proposal should include encrypting and securing any confidential data, and adopting the latest security measures available to prevent unauthorized access. Security controls include patching application/operating system/firmware, minimizing administrative controls, and

completing a DHSS Archer Authorization Package and submitting the Authorization Package to our department security office for review and approval, per the requirements under section 3.7.2. The authorization package must be approved before systems or applications are authorized for production. The Offeror assumes the responsibility for any and all authentication and account creations or modifications.

SaaS/XaaS offerings must have a FISMA network vulnerability scan performed at least once every 30 days, with the results provided to the Department Security Office (DSO) and the Division Data Owner. SaaS offerings must have an automated code scan, or manual analysis of code security, performed at least once every 90 days, with the results provided to the Department Security Office and the Division Data Owner.

At time of contract, the Offeror must provide responses to IT Reference H and sign the Appendix E: HIPAA Business Associate Agreement (located in the Standard Agreement Form attached to the solicitation) or data usage agreement. During the development activity the Offeror, in conjunction with DHSS, must complete answers to a DHSS RSA Archer Authorization Package.

3.7.7.1 Requirement – SaaS/XaaS Security Responsibilities

Proposals for SaaS/XaaS offerings should include confirmation the Offeror will be responsible for all security mechanisms within their environment. Including encrypting and securing any HIPAA data, and will adopt the latest security measures available to prevent unauthorized access.

The Offeror is also responsible for server patching and completing an RSA Archer Authorization Package. The Offeror must assume the responsibility for all authentication and account creations or modifications.

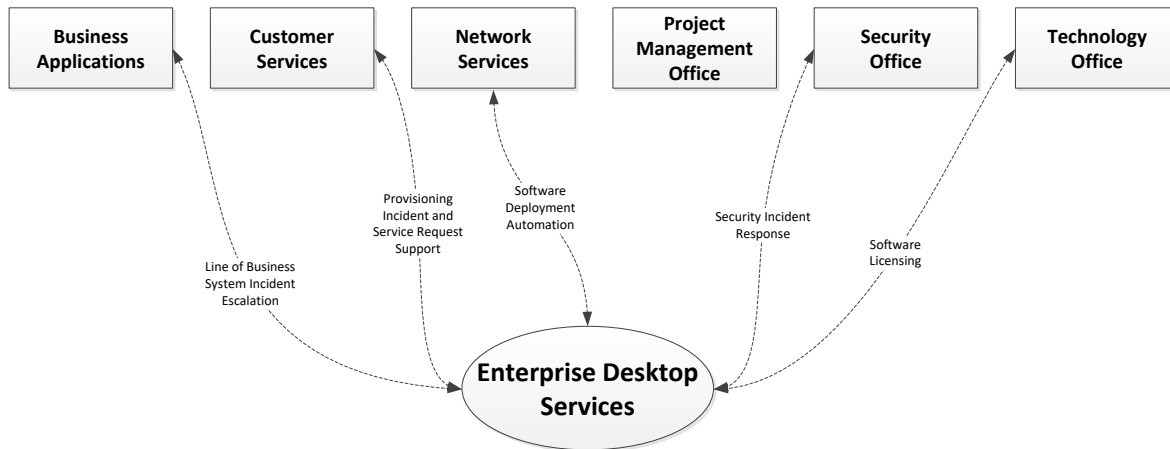
3.7.7.2 Requirement – SaaS/XaaS Logging and Auditing

For proposals that include SaaS/XaaS solutions that may manage confidential data, the SaaS/XaaS must include a logging and auditing solution. All components and systems within the Offeror's proposal are required to be capable of generating data access and recording by user id requesting, or reading and writing of data. The application must be readily capable of generating logging and auditing in a concise summary that can be easily subject to research by indexing. The industry standard solution the Offeror chooses to implement must be described, and provide responsible DHSS entities (DSO, Division Data Owner) access to perform oversight related tasks. The package audit-log data that is produced by the application must include all the data to identify who created, accessed, updated and deleted data and when each event occurred.

3.8 Enterprise Desktop and Mobility Services and Standards

Enterprise Desktop and Mobility Services include the activities DHSS ITS performs to define, deploy and support the DHSS enterprise desktop and mobility endpoints. DHSS maintains an enterprise desktop for all datacenter and field-deployed hosts. The desktop is based on a golden image, created and maintained based on input from the integration and development, information security, and operations service lines and standards. This section describes the procurement relevant enterprise desktop services and standards used to manage and maintain DHSS end-user desktops.

Enterprise Desktop and Mobility Services is matrixed per the following organizational mapping:



3.8.1 Desktop Access and Configuration

DHSS is a Dell Hardware shop so all workstations are Dell. Offerors should propose solutions that are device independent. The DHSS Enterprise Desktop is a support version of Microsoft Windows, with the supported web browser, productivity suite and other common, standard or approved software components and applications. See IT Reference D for currently supported hardware and operating system(s).

DHSS is a least privilege environment and staff do not are not granted elevated privilege without individual, reviewed and approved security policy waivers. DHSS Program staff work with DHSS ITS to request, review and determine compatibility, redundancy and fit of new, non-standard software. DHSS Program staff are not permitted, and cannot independently authorize, or install, new software components, or applications, on the desktop. Offerors should avoid solutions that require customization of the DHSS Enterprise Desktop.

If the Offeror's proposed solution requires use of a desktop web browser, the solution should be browser independent and be fully capable of functioning with the standard browser in the DHSS Enterprise Desktop Standards. See IT Reference D for currently supported web browser version(s).

If the Offeror's proposed solution requires use of desktop productivity suite software, the solution should be fully capable of functioning with the standard desktop suite in the DHSS Enterprise Desktop Standards. See IT Reference D for currently supported desktop productivity software.

3.8.1.1 Requirement – Desktop Access and Configuration

The Offeror must propose a solution that supports the DHSS currently deployed desktop operating system (OS) and does not require elevated privileges for the end-user on their desktop. The Offeror must include activities in their proposal to establish whether each and every end-user desktop software component required to support the proposed solution is a part of the standard DHSS Enterprise Desktop. The Offeror must include activities in their proposal to work with the DHSS Enterprise Desktop team to integrate each non-standard software component. These activities must include working with DHSS Enterprise Desktop service line staff to:

- Accept or identify acceptable alternatives for each non-standard software component.
- Establish installation, configuration and support procedures for each non-standard software component.

3.8.1.2 Requirement – Web Browser Compatibility

The Offeror must plan to support proposed solution compatibility with DHSS currently deployed web browser version(s). The required functionality of the solicitation must be fully supported, or the Offeror must include in their proposal the plan, cost and activities to make the proposed solution fully supported. The Offeror must review the DHSS standard browser vendor's published support lifecycle material published at the time of proposal and include in their proposal a plan to upgrade off of any versions of browser that are known to become unsupported during the execution of the contract. The Offeror must include in their cost proposal the optional contingency cost of one unanticipated browser compatibility version upgrade for the components of the proposed solution where they own the code or are responsible for maintaining it.

3.8.1.3 Requirement – Desktop Productivity Software Compatibility

The Offeror must include in their cost proposal the optional contingency cost of one unanticipated browser compatibility version upgrade for the components of the proposed solution where they own the code or are responsible for maintaining it. The Offeror must plan to support DHSS currently deployed desktop productivity suite version(s). The Offeror must review the DHSS standard desktop productivity suite vendor's lifecycle material published at the time of proposal and include in their proposal a plan to upgrade off of any versions of productivity suite software identified as becoming unsupported during the planned execution of the contract. The Offeror must include in their cost proposal the optional contingency cost of one unanticipated productivity suite software version compatibility upgrade for the proposed application.

3.8.1.4 Requirement – Other Desktop Software and Components

The Offeror must delineate all the desktop software, access and configuration requirements of the application not addressed elsewhere in the Enterprise Desktop Services and Standards section.

3.8.2 Mobile Devices and Tablets

Mobile devices for DHSS are:

- Dell Tablets
 - Configured with the latest version of Microsoft Standard browsers
 - Web applications are to be Browser version independent which means they support current versions of Internet browsers for Microsoft, FireFox, and Google Chrome.
 - Software should not be dependent on a specific version of MS Office Suite. We are currently at 2013 – but we move the organization as a whole for the Department upgrades. DHSS has over 4000 Department Staff.
- Apple IOS Tablets and Smart Phones
 - Configured with the latest version of Safari and Google Chrome.
 - Software should not be dependent on a specific version of MS Office Suite. We are currently at 2010 – but we move the organization as a whole for the Department upgrades. We have over 4000 Department Staff.

Dell and Apple Devices are configured with the latest operating systems or 1 version previous. The DHSS mobile device strategy is evolving rapidly and is not stable or complete for supporting the ability to store or transmit confidential data. Offerors should plan extensive engagement with the DHSS Enterprise Desktop and Mobility service line if their solution includes mobile device end-points.

3.8.2.1 Requirement

The Offeror must plan appropriate activities to support mobile device endpoint integration. These activities must include selecting and adapting mobile solution software components to a DHSS standard mobile device that supports all security compliance requirements of the data being stored on or transmitted to/from the mobile device endpoints.

3.8.3 RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - DHSS Managed Off-site Hosting Scenarios

3.8.3.1 Requirement

All DHSS Enterprise Desktop and Mobility Services and Standards apply to DHSS desktops managed off-site hosting scenarios. See *section 1.2 IT Requirements Intent and Approach* for more information about DHSS Managed Off-site Hosting Scenarios.

3.8.3.2 Requirement

The Offeror must understand and acknowledge that all DHSS Enterprise Desktop and Mobility Services and Standards apply to DHSS managed off-site hosting scenarios.

3.8.4 Software as a Service (SaaS) and Anything as a Service (XaaS) Scenarios

Software as a Service (SaaS) and Anything as a Service (XaaS) delivery models afford DHSS the ability to leverage the business value of information management solutions without bearing the costs and risks of having to maintain development and operational infrastructure. This value is achieved when the SaaS/XaaS vendor carries the burden of managing technical operations and ongoing development/maintenance, while collaborating with their clients to meet and maintain the functional requirements and integrity of the solution.

DHSS IT expects that, by owning ongoing maintenance and technical operations, SaaS/XaaS solutions implicitly provide a limited degree of freedom to deviate from DHSS ITS Systems Operations and Administration Services and Standards. Specifically, when federal funding rights do not apply, and when DHSS is not performing technical services administration within the SaaS/XaaS hosting environment, SaaS/XaaS solutions may employ embedded non-compliant end-user desktops within the SaaS/XaaS, provided that:

- (a) Equivalent desktop security controls are proposed and implemented to those present on the DHSS Enterprise Desktop, and
- (b) The SaaS/XaaS supports DHSS Enterprise Desktop supported standard software for accessing SaaS solution desktops. See IT Reference D for supported software.

3.8.4.1 Requirement

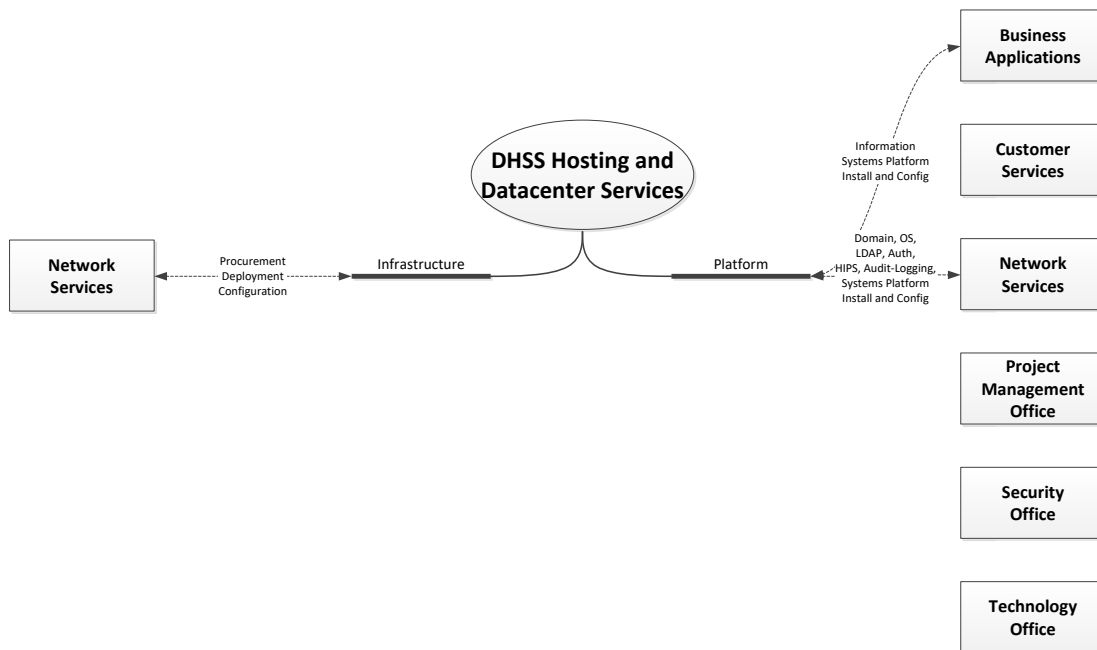
When federal funding rights apply, *see section 3.4.4*, the Offeror's proposed solution must employ DHSS ITS Enterprise Desktop Services and Standards compliant platform components. This requirement supports State of Alaska operational risk mitigation in the event the Offeror determines to discontinue the service at a future date, and DHSS must assume maintenance and/or operations. If the Offeror cannot meet this requirement, they may propose an operational contingency statement the State of Alaska can consider as a viable risk mitigation alternative to assuming the future operational risks.

3.9 DHSS Hosting and Datacenter Services and Standards

DHSS Hosting and Datacenter Services include the activities DHSS ITS performs to design, implement and operate standard information technology infrastructure and platform offerings in DHSS managed datacenters. This includes both the primary DHSS data centers in Juneau and Anchorage, as well as satellite facilities in secondary locations that require similar services to meet disaster recovery and business continuity requirements. Relying on robust appliance style hardware with advanced storage area network data deduplication and replication functions, advanced firewalls, and virtualized host infrastructure, DHSS datacenter infrastructure provides the flexibility to rapidly deploy new hosts in a physically and logically secure environment.

The DHSS standard platform is built on the industry leading Microsoft architecture and includes the full range of platform services needed to support complex information systems, including application server, database, business intelligence, enterprise service bus, and federated authentication. On top of these services, DHSS has also implemented collaboration services, via Microsoft SharePoint, and rapid information system design, development and implementation capabilities via Microsoft Dynamics CRM.

DHSS Hosting and Datacenter Services is matrixed per the following organizational mapping:



3.9.1 RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - On-DHSS Premise Hosting Considerations

DHSS provides and maintains a standardized set of infrastructure and platform services to deliver a full-service private cloud offering, leveraging the State of Alaska Wide Area Network to span two georedundant data centers located in Juneau and Anchorage.

3.9.1.1 Infrastructure

DHSS uses a modern virtualization approach, guest-hosting hundreds of virtual servers on a robust physical architecture consisting of physical host hardware, the switching environment, the storage area network, firewall

appliances, and load-balancing / offload appliances. This physical architecture is built on high-availability components to ensure that single points of hardware failure do not result in unplanned service interruptions.

On top of this physical infrastructure, DHSS has implemented data de-duplication, geo-redundant data-replication of virtual hosts, data classification network segmentation, centralized audit-logging, packet inspection, protocol-based load-balancing and SSL/TLS offload services.

3.9.1.2 Platform

Leveraging more than a decade of investment and commitment to the Microsoft platform, DHSS has architected a robust platform of services including a unified domain with standardized server OS, LDAP, authentication, GPO and other domain services. On top of this foundation, DHSS supports a comprehensive set of system platform services, including data persistence/repository, MDM, reporting and business intelligence, scheduling, system integration and business-information services.

For on-DHSS premise logging and audit, DHSS uses SPLUNK. All systems must be capable of generating data access logs that record the user id, the type of access, and the timestamp the request occurred. The application must be readily capable of generating logging and auditing in a concise summary that can be easily integrated into SPLUNK.

On-DHSS premise hosted solutions development, test, and production environments are managed and administered by DHSS IT, following DHSS protocols for migration to production and environment administration. The Offeror will not have direct access to the production environment on the State Network and must work through the appropriate protocols to affect change appropriately.

The DHSS Infrastructure and Platform services component standards are located in IT Reference D. DHSS is, generally, standardized on Microsoft software components for our on-DHSS premise Platform services. Offerors who propose on-DHSS premise hosted solution components outside the identified DHSS standards are required to provide additional information, including DHSS Platform services aligned alternatives, as outlined in the section *3.9.1.4 Requirement – Hosting Platform Alignment* requirement below.

3.9.1.3 Requirement

Proposals for hosting the solution on the State network should include the responsibilities and communication process for DHSS IT for development, test, and production environments and follow DHSS protocols for migration to production. The Offeror will not have direct access to the production environment on the State Network and must work through the appropriate protocols to effect change appropriately.

The Offeror must work with DHSS IT for all security mechanisms, including patching updates.

3.9.1.4 Requirement

The Offeror will use the software identified in IT Reference D for the hosting of this application. The Offeror must state which version the application components are implemented in and how this solution will be accessed in the DHSS environment. You will need to identify what skills and expertise would be needed to support your proposed infrastructure.

3.9.2 RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - DHSS Managed Off-site hosting considerations

3.9.2.1 Requirement

All DHSS Hosting and Datacenter Services and Standards must be followed and applied to DHSS managed off-site hosting scenarios. See *section 1.2 IT Requirements Intent and Approach* for more information about DHSS Managed Off-site Hosting Scenarios.

3.9.2.2 Requirement

The Offeror must understand and acknowledge that all DHSS Hosting and Datacenter Services and Standards apply to DHSS managed off-site hosting scenarios.

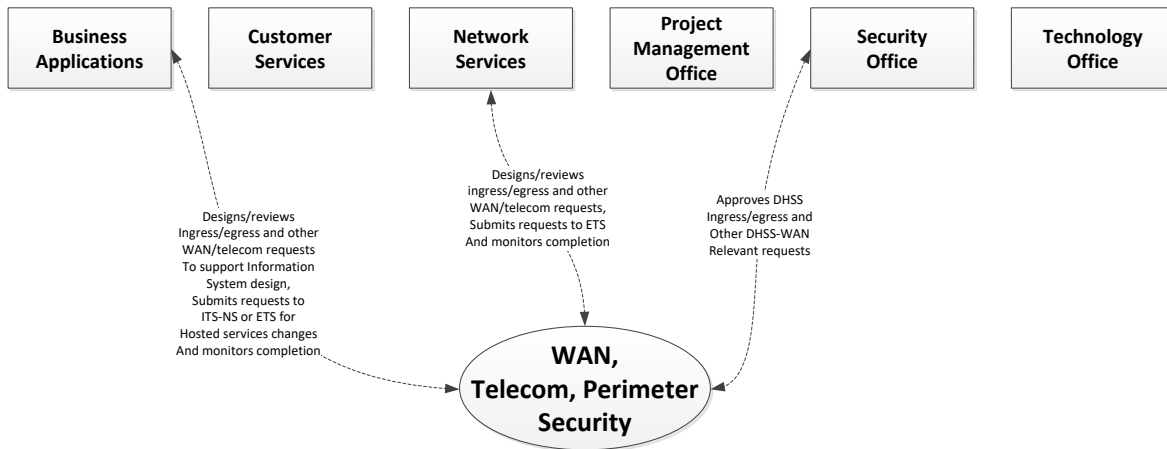
3.9.3 Software as a Service (SaaS) and Anything as a Service (XaaS) Scenarios

DHSS Hosting and Datacenter Services and Standards do not support Software as a Service (SaaS) or Anything as a Service (XaaS) offerings. Offerors proposing SaaS/XaaS solutions must provide and manage their own hosting and datacenter services. Offerors may subcontract these hosting and datacenter services, provided appropriate security agreements, such as a Business Associate Agreement or data usage agreement, are in place for the data being stored in or transported to/from the subcontracted hosting datacenter.

3.10 DHSS Wide Area Network, Telecommunications, and Perimeter Security Services and Standards

DHSS Wide Area Network, Telecommunications and Perimeter Security Services include the activities DHSS IT performs to integrate the DHSS LAN with the State of Alaska (SOA) wide area network, telecommunications and perimeter security managed by Department of Administration (DOA) Office of Information Technology (OIT). These services are built upon a layered architecture design that includes VPN, ingress/egress, network address translation and port address translation services and capabilities provisioned, managed and maintained by OIT. To maximize the security capabilities of these services and ensure systems maintain compliance with system security requirements and industry standards, DHSS ITS and OIT follow strict change management processes that include reviews and approvals for all information systems and applications changes that impact WAN, Telecommunications, and Perimeter Security. See Information Security Compliance and Privacy Services and Standards for additional details regarding security compliance. Work and service requests reflecting these changes are managed via an OIT ticketing system, currently Service Desk Manager (SDM).

DHSS Wide Area Network, Telecommunications, and Perimeter Services is matrixed per the following organizational mapping:



3.10.1 State WAN and Bandwidth

The State Wide Area Network (WAN) is maintained at the enterprise level by the Department of Administration (DOA)/Office of Information Technology (OIT); WAN connectivity and bandwidth available to grantees via the WAN is controlled by contractual agreements between OIT and local internet providers. Some rural areas experience internet connection speed as low as 56k and frequent network disruptions. Changes to the State WAN, for example new ingress points, IPSEC tunnels, etc., require both DHSS IT Security Office and DOA State Security Office review and approval.

Due to the great distances between communities in Alaska and the lack of road connections in most areas of the state, electrical power is locally generated in most parts of the state. While Anchorage has redundant transmission lines from its electrical generating plant and rarely experiences system-wide outages, local outages can occur due to weather-related conditions or damage to the distribution system. Electrical power in most other parts of the state is subject to periodic system-wide outages as well as localized outages. Broadband service is available in most of the larger communities in Alaska. However, in communities located off the road system that rely on satellite connections, a T1 line is a significant expense.

3.10.2 RESPONSE TO THIS SECTION NOT REQUIRED FOR THIS RFP - DHSS Managed Off-site Hosting Scenarios

DHSS operates only within the State of Alaska Wide Area Network and uses only State of Alaska provided telecommunications services. Proposals requiring new State of Alaska Wide Area Networks or telecommunications (phone, fax, etc.) services must be approved by the DHSS IT Manager. See *section 1.2 IT Requirements Intent and Approach* for more information about DHSS Managed Off-site Hosting Scenarios.

3.10.2.1 Requirement

The Offeror must understand and acknowledge that all DHSS Wide Area Network, Telecommunications and Perimeter Security Services and Standards apply to DHSS managed off-site hosting scenarios.

3.10.3 Software as a Service (SaaS) and Anything as a Service (XaaS) Scenarios

Offerors proposing SaaS/XaaS solutions must provide and manage their own Wide Area Network and telecommunications services to support any required network and telephony services of the proposed

solution. The proposed solution must support access by the DHSS Program staff via a supported DHSS desktop web-browser, or a desktop thin client (e.g., Citrix Receiver), or similar DHSS approved and supported software.

3.11 Accessibility

Alaska Administrative Orders 262 and 129 establish the Americans with Disabilities Act (ADA) compliance program in accordance with the American with Disabilities Act (42 U.S.c. 12101 et seq.). DHSS expects the Offeror to propose and deliver solutions that meet the Alaska ADA program.

3.11.1 ADA Compliance for Access to Information Systems and Applications

DHSS requires ADA compliant application access. Many people with disabilities use “assistive technology” to enable them to use computers and access the Internet. Blind people who cannot see computer monitors may use screen readers – devices that speak the text that would normally appear on a monitor. People who have difficulty using a computer mouse can use voice recognition software to control their computers with verbal commands.

Poorly designed websites can create unnecessary barriers for people with disabilities, just as poorly designed buildings prevent some from entering. Designers may not realize how simple features built into a web page will assist someone who, for instance, applications must work with screen readers for people who cannot see a computer monitor or use a mouse.

When accessible features are built into web pages, websites are more convenient and more available to everyone – including users with disabilities. Web designers can follow techniques developed by private and government organizations to make even complex web pages usable by everyone including people with disabilities. For most websites, implementing accessibility features is not difficult and will seldom change the layout or appearance of web pages. These techniques also make web pages more usable both by people using older computers and by people using the latest technologies (such as personal digital assistants, handheld computers, or web-enabled cellular phones).

Two important resources provide guidance for web developers designing accessible web pages. One is the Section 508 Standards, which Federal agencies must follow for their own new web pages. To learn more about the Section 508 Standards the Access Board maintains information on its website at www.access-board.gov and has a useful guide for web developers at www.access-board.gov/sec508/guide/1194.22.htm ;

The Department of Justice also has information about accessible web page design in an April 2000 report to the President. This report is available at www.usdoj.gov/crt/508/report/content.htm, and the General Services Administration hosts an online course for web developers interested in accessible web design. This program was developed in conjunction with the Access Board, the Department of Justice, and the Department of Education and provides an interactive demonstration of how to build accessible web pages. This course is available at www.section508.gov, which also provides information about the Federal government’s initiative to make its electronic and information technology accessible to people with disabilities.

A more comprehensive resource is the Web Content Accessibility Guidelines developed by the Web Accessibility Initiative. These guidelines help designers make web pages as accessible as possible to the widest range of users, including users with disabilities. The Web Accessibility Initiative is a subgroup of the World Wide Web Consortium — the same organization that standardizes the programming language followed by all web developers.

Information for web developers interested in making their web pages as accessible as possible, including the current version of the Web Content Accessibility Guidelines (and associated checklists), can be found at www.w3c.org/WAI/Resources, and Information about the Web Accessibility Initiative can be found at www.w3c.org/WAI.

3.11.1.1 Requirement

DHSS requires that web pages and web applications be accessible for ADA compliance. This includes online forms and tables which must be made so that those elements are accessible. Documents on the website must be provided in HTML or a text-based format in addition to any other formats.

It is the responsibility of the Offeror to ensure that the web page/web application features are accessible by American's with Disabilities.

3.12 State of Alaska DHSS MITA Standards and Department IT Technology Standards

It is **critical** that the Offeror understand that the State of Alaska Department of Health and Social Services (DHSS) is evolving from a traditional model of program-centric administration based on division-level technology needs, to a Department-level, enterprise-wide architecture based on the leveraging of shared technology and business components. The result for DHSS is a modular, flexible Health Information Technology (HIT) architecture, designed to allow the Department to meet current and future business needs, with a focus on lower cost, increased efficiency, and improved service.

The result for Alaska is the transition from a Division-centric IT approach to one that aligns with the technical and business needs across the Department, supporting the implementation and sharing of common components across Divisions. The full implementation of the Department IT Technology Standards establishes the following guiding principles and strategies:

- Maximize use of DHSS HIT expenditures through reuse of shared technology and business services, allowing functionality and services to be exposed for reuse
- Alignment of business needs and business processes across Divisions
- Migration to a DHSS-enterprise, consumer-centric focus, moving away from siloed, program-specific perspectives.

The Department is migrating toward an enterprise Service Oriented Architecture (SOA) consistent with Medicaid Information Technology Architecture (MITA) and the Centers for Medicare and Medicaid Services (CMS) Seven Conditions and Standards (7C&S) outlined below:

- Modularity
- MITA Condition

- Industry Standards Condition
- Leverage Condition
- Business Results Condition
- Reporting Condition
- Interoperability Condition

3.12.1 MITA Requirements

The proposal must respond to the questions on how their solution addresses or does not address each of the 7C&S.

3.12.2 Modularity

This condition requires the use of a modular, flexible approach to systems development, including the use of open interfaces and exposed application programming interfaces (API); the separation of business rules from core programming; and the availability of business rules in both human and machine readable formats. This is in order to ensure that states can more easily change and maintain systems, as well as integrate and interoperate with a clinical and administrative network designed to deliver person-centric services and benefits.

3.12.3 MITA Condition

This condition requires states to align to and advance increasingly in MITA maturity for business, architecture, and data. State are to complete and continue to make measurable progress in implementing their MITA Maturity Model roadmaps, MITA State Self-Assessments, and Concept of Operations (COO) and Business Process Models (BPM).

This requirement requires a demonstration of understanding of the CMS Seven (7) Standards and Conditions and the Department's IT Technology Standards (See IT Reference D) and how this applies to the Contractor's proposed solution.

3.12.4 Industry Standards Condition

States must ensure alignment with, and incorporation of, industry standards: the Health Insurance Portability and Accountability Act (HIPAA) of 1996 security, privacy and transaction standards; accessibility standards established under section 508 of the Rehabilitation Act, or standards that provide greater accessibility for individuals with disabilities, and compliance with federal civil rights laws; standards adopted by the Secretary under section 1104 of the Affordable Care Act (ACA); and standards and protocols adopted by the Secretary under section 1561 of the ACA.

3.12.5 Leverage Condition

State solutions should promote sharing, leverage, and reuse of Medicaid technologies and systems within and among states. This condition encourages states to identify any components and solutions that are being developed with the participation of or contribution by other states; solutions that have high applicability for other reuse by other states; and service-based and cloud-first strategy for system development.

3.12.6 Business Results Condition

Systems should support accurate and timely processing of claims (including claims of eligibility), adjudication, and effective communications with providers beneficiaries, and the public. A system should employ effective and efficient business process, producing and communicating the intended operational results with a high degree of reliability and accuracy.

3.12.7 Reporting Condition

Solutions should produce transaction data, reports, and performance information that contribute to program evaluations, continuous improvement in business operations, transparency, and accountability

3.12.8 Interoperability Condition

Systems must ensure seamless coordination and integration with health insurance exchanges (whether run by the state or federal government), and allow interoperability with health information exchanges, public health agencies, human service programs, and community organizations providing outreach and enrollment assistance services.