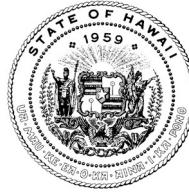


DAVID Y. IGE
GOVERNOR



DEPT. COMM. NO. 197
TODD NACAPUY
CHIEF INFORMATION
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April 15, 2019

The Honorable Ronald D. Kouchi,
President, and
Members of The Senate
Twenty-Ninth State Legislature
Hawaii State Capitol, Room 409
Honolulu, Hawaii 96813

The Honorable Scott K. Saiki,
Speaker, and
Members of The House of Representatives
Twenty-Ninth State Legislature
Hawaii State Capitol, Room 431
Honolulu, Hawaii 96813

Dear President Kouchi, Speaker Saiki, and Members of the Legislature:

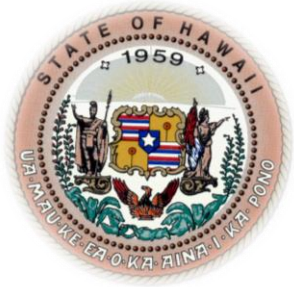
Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation (IV&V) reports to the Legislature within ten days of receiving the report, please find attached the IV&V report the Office of Enterprise Technology Services received for the State of Hawaii Department of Human Services Systems Modernization Project.

In accordance with HRS section 93-16, this report may be viewed electronically at <http://ets.hawaii.gov> (see "Reports").

Sincerely,

DOUGLAS MURDOCK
Chief Information Officer
State of Hawai'i

Attachment (2)



Hawaii Department of Human Services Systems Modernization Project

Final IV&V Monthly Status Report
for Reporting Period: March 1 - 31, 2019

Final submitted: April 12, 2019

Overview

- [Executive Summary](#)
- [IV&V Findings and Recommendations](#)
- [IV&V Engagement Status](#)
- [Appendices](#)
 - [A – IV&V Criticality Ratings](#)
 - [B – Risk Identification Report](#)
 - [C – Acronyms and Glossary](#)
 - [D – Background Information](#)



Executive Summary

Executive Summary



Despite seeing more incremental accomplishments in March, IV&V continues to assess the category of Project Management at a High criticality rating due to the activities and plans remaining to be implemented and/or approved by DHS. The Project Management Plan (3/13/19) and the Project Schedule (3/27/19) were both delivered as drafts in March; IV&V and DHS submitted a third round of comments on the PMP, while the Schedule is still in under review. IV&V continues to assess the Configuration and Development category at a Medium criticality rating. The ASI presented and delivered the draft DD&I Plan on 3/27/19, which is currently under review by IV&V and DHS. During the March reporting period, one risk and one preliminary concern were retired, and one preliminary concern was escalated to an issue. Several IV&V findings (risks/issues) remain open in the areas of project management and configuration and development, which are summarized at a high level below and discussed more in-depth in the Findings and Recommendations section of this report.

Jan	Feb	Mar	Category	IV&V Observations
H	H	H	Project Management	<p>During the March reporting period, IV&V again noted gradual improvement in the Project Management discipline of the ASI. The third draft of the Project Management Plan was submitted, with IV&V and DHS verifying previous comments were sufficiently addressed. Additionally, on 3/27/19, the draft Project Schedule and draft Design, Development, and Implementation (DD&I) Plan were both presented and submitted; IV&V and DHS review is currently underway. JAD workgroups began in March as proposed in the ASI JAD Performance Improvement Plan (PIP). Finally, the project adopted and adhered to a consistent deliverable review and acceptance process, which should improve the efficiency and timing of finalizing deliverables.</p> <p>Despite the progress noted above, the project still has not received DHS approval on these critical project management plans and activities, which was further prolonged by delivery of the draft version of both the Schedule and DDI Plan later in the month than originally expected. IV&V noted declining State engagement in the ASI weekly status report meetings. Despite changes made to the report format and content, weekly status reporting lacks sufficient detail to provide sound understanding of and insight to project progress.</p> <p>IV&V maintains that the Project Management category continues to be rated at a High criticality for the March reporting period.</p>

Continued on following page

Executive Summary (cont.)



Jan	Feb	Mar	Category	IV&V Observations
M	M	M	Configuration and Development	<p>The Configuration and Development findings continue to focus on the Project's inability to reach an understanding between DHS and its vendors (ASI and/or Enterprise Systems Integrator [ESI]) on preferred tools, solutions (e.g., portal development), and environments to support DDI. The number of Siebel instances and the necessary development environments continue to be the primary drivers of risk in this category, along with the shift from Liferay to Adobe. While resolutions to these topics have been discussed and change requests have been logged, little progress was observed in the March reporting period related to the Siebel instances and the portal, and the change requests remain unfinalized. The need for additional working sessions specific to portal development and Siebel instances was determined, but have not yet been held. IV&V learned that Unisys is provisioning a cloud environment to support their DDI needs, which is anticipated to be available by the end of April.</p> <p>IV&V maintains that the Configuration and Development category continues to be rated at a Medium criticality for the March reporting period.</p>

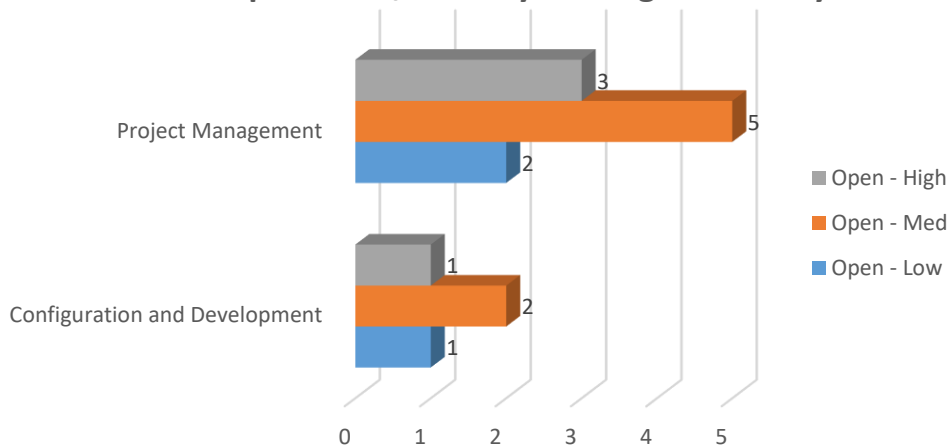
IV&V Findings and Recommendations



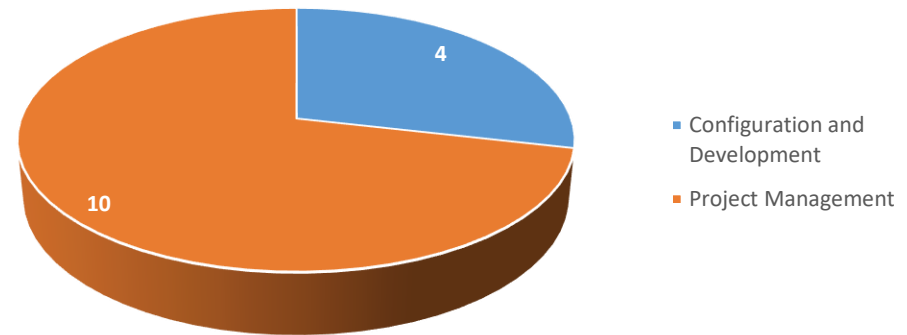
IV&V Findings and Recommendations

As of this reporting period, PCG has identified a total of 14 open findings (1 issue, 13 risks,), 5 retired findings, and 2 concerns. Of the open risks and issues, 10 are related to Project Management and 4 are related to Configuration and Development. One new risk was opened during the March reporting period. 1 risk and 1 concern were closed. The following figures provide a breakdown of our open risks and issues by priority and category.

Open Risks/Issue by Findings & Priority



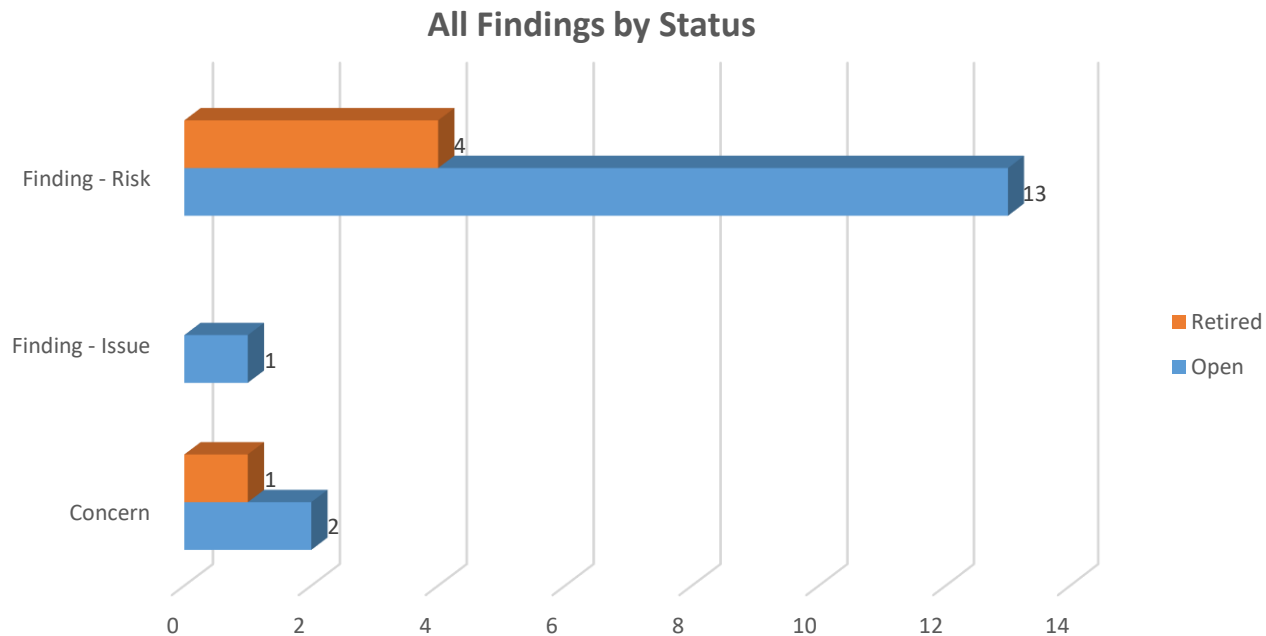
Open Risks/Issues by Category





IV&V Findings and Recommendations

The following figure provides a breakdown of all IV&V findings (risks, issues, concerns) by status (open, retired).





IV&V Findings and Recommendations

New Findings During the Reporting Period

#	Finding	Category
19	Issue - The lack of an approved, baselined project schedule obscures the ability of stakeholders to accurately measure project progress and/or impacts to the schedule	Project Management



IV&V Findings and Recommendations

Closed Findings During the Reporting Period

#	Finding	Category
4	An unclear deliverable review and acceptance process may be contributing to project delays.	Project Management
21	The ASI (Unisys) PMO Lead and Data Conversion Lead roles are held by a single staff member, which may cause the Project to suffer due to staff over-allocation and competing priorities.	Project Management



IV&V Findings and Recommendations


Preliminary Concerns Requiring Further Investigation Logged During the Reporting Period

#	Finding	Category
	No new preliminary concerns were opened during the reporting period	



IV&V Findings and Recommendations

Project Management


#	Key Findings	Criticality Rating
1	<p>Risk – Current project management techniques in the JAR and JAD sessions may negatively impact system design. IV&V notes that the third round of PMP comments by IV&V and DHS has been submitted to the ASI, but the deliverable has not yet been accepted. DHS deemed the PIP as sufficient enough to allow ASI-led Workgroup Meetings to commence in March 2019. IV&V will continue to monitor this risk through acceptance of the PMP and upon verification that JADs are following the redesigned processes as stated in the PIP, and that the processes are effective.</p> <p>The risk remains a Medium priority pending approval of the PMP, and execution of the PIP and evaluation of its success. This is expected to occur in April 2019.</p>	

Recommendations	Progress
<ul style="list-style-type: none">Implement project management best practices and identify opportunities to improve meeting management techniques. Publish/post missing JAR/JAD session notes on SharePoint, and moving forward, publish notes within a reasonable period of time (e.g., 24 hrs) after completion of any given session.	In Process



IV&V Findings and Recommendations

Project Management


#	Key Findings	Criticality Rating
2	<p>Risk – Late Delivery of project deliverables may result in schedule delays. The PMP continues in the review cycle by DHS and IVV, with the third round of comments having been submitted to the ASI. A revised draft of both the Project Schedule and DD&I Plan was submitted on 3/27/2019 accompanied by a walkthrough, however IV&V would like to review and analyze both documents before taking any further action on this finding.</p> <p>The risk remains at a High priority pending review and analysis of the Project Schedule and DD&I Plan.</p>	

Recommendations	Progress
<ul style="list-style-type: none">Review the project schedule to capture and discuss the late deliverables and delivery thereof; complete the Project Management Plan and deliver it for review to DHS and IV&V for review; attain approval of the PMP.	In Process

IV&V Findings and Recommendations




H Project Management

#	Key Findings	Criticality Rating
3	<p>Risk – Project Status Reporting does not meet with expectations or Best Practices for presenting status updates of schedule, cost, scope, risks, issues, and change management, which may inhibit effective project management and limit project transparency. IV&V acknowledges that the ASI has made multiple changes to the weekly status report. Nevertheless, the changes have not satisfactorily improved the State's understanding of project progress nor provided sufficient transparency into ASI activities. The ASI weekly status report must present sufficient project information for the report to independently stand on its own; providing enough content and detail that any project stakeholder reading the report would have a clear understanding of project accomplishments, in-progress work, planned work, changes, and potential challenges. IV&V recommends that the ASI provide additional information that will enable greater insight into project activities, which may include the following:</p> <ul style="list-style-type: none"> • An aggregate of hours spent on in-progress tasks, activities, and deliverables • In-progress task, activity, deliverable, and work product percent complete, and the delta in progress from week to week • Expected completion dates of all in-progress tasks, activities, deliverables, and work products, updated weekly, directly from the updated schedule • Detailed description of potential impacts of reported project risks and issues, accompanied by clear, actionable response strategies and regular updates on the progress of the implemented response strategies <p>Additionally, IV&V suggests that ASI executive leadership participate in the weekly status calls in an effort to foster greater dialogue with project stakeholders, and to ensure that the ASI's status and message are being clearly communicated to and understood by DHS.</p> <p>Due to continued insufficient content reported in the weekly status report content, IV&V is escalating this to a medium risk in the March reporting period</p>	
Recommendations		Progress
<ul style="list-style-type: none"> • Meet jointly (DHS, the ASI, and IV&V) to determine revisions to the Project Status Report that would meet the needs of reporting on all active tasks and activities, and eliminate redundancy between the data contained in the Project Status Reports and SharePoint logs. 		In Process

IV&V Findings and Recommendations



Project Management



#	Key Findings	Criticality Rating
5	Risk – The Project Partnership Understanding (PPU) for the BES Project has not been approved by CMS, which may impact the project schedule and funding. As the PPU has not been approved, and the CMS reorganization is still underway, IV&V has no update to this risk.	

Recommendations	Progress
<ul style="list-style-type: none">Submit the updated PPU to CMS for review and approval; determine the impact of CMS' decisions on the Project and incorporate all federal reporting and process requirements into the appropriate project deliverables.	In Process



IV&V Findings and Recommendations

Project Management



#	Key Findings	Criticality Rating
7	Risk – The Change Management Process is not fully documented and approved, which could delay Change Requests and affect scope, schedule, cost, and quality. The ASI updated the Change Management Plan as a component of the third draft of the PMP. After incorporation of final comments, IV&V anticipates this finding should be ready for closure in the April reporting period.	
9	Risk – BESSD leads and/or teams have not been assigned to the Project, which negatively impacts the schedule and workload. DHS has hired a project management assistant and business analyst, but IV&V is not aware of the details of their roles or responsibilities. IV&V will continue to monitor this risk and will provide updates in the April as more details of roles and responsibilities are learned.	

Recommendations	Progress
<ul style="list-style-type: none">ASI complete the development of the Change Management Plan and collaborate with DHS to ensure the process is institutionalized for the BES Project.	In Process
<ul style="list-style-type: none">Identify high-priority areas where BESSD Leads are needed and obtain executive level support to reallocate BESSD staff to the project soon as possible. Re-assess the need for support throughout the project life cycle to ensure that the appropriate subject matter experts are available as required.	In Process



IV&V Findings and Recommendations

Project Management


#	Key Findings	Criticality Rating
14	Risk – The Decision Log process is undefined, which may hamper communication and discovery of Project Decisions. IV&V has no material update to this risk. Review of the third draft of the PMP is complete, however the Decision Log parameters were still not included. IV&V is adding a comment to the PMP document DCF to bring attention to this item, and anticipates having additional information in the April report.	
15	Risk – The Decision Log lacks data elements needed for tracking and reporting on key Project Decisions, which may hamper discovery of decisions. IV&V has no material update to this risk. Review of the third draft of the PMP is complete, however the Decision Log data elements were still not included. IV&V is adding a comment to the PMP document DCF to bring attention to this item, and anticipates having additional information in the April report.	

Recommendations	Progress
<ul style="list-style-type: none"> DHS, the ASI, and IV&V meet to determine the parameters that will be used to identify the level and types of decisions that will be entered in the log. This information should then be recorded in the Project Management Plan, Communications Plan, or other appropriate document/artifact. 	Not started
<ul style="list-style-type: none"> DHS, the ASI, and IV&V meet to determine all elements needed to support the Decision Log and associated processes. Following that activity, IV&V recommends that the DHS SharePoint Decisions log is updated to reflect all agreed-to needed elements and decisions. 	Not started



IV&V Findings and Recommendations

Project Management


#	Key Findings	Criticality Rating
17	Risk – The Project may experience the situation where several deliverables may be presented to DHS for review and approval within a short period of time, which may cause schedule delays. A draft version of the schedule was presented and delivered on 3/27/2019 IV&V is reviewing and analyzing the schedule, and anticipates a more detailed update in the April report.	

Recommendations	Progress
Options to mitigate the risk include: <ul style="list-style-type: none">• Prioritizing the deliverables to identify those that should be reviewed first based on the criteria of schedule impact and/or cross-deliverable integration;• Review of interim drafts;• Addition of DHS resources to review/approve deliverables;• Addition of DHS review time for the larger deliverables; and/or• Adopt an option of 'conditional' approval with specific criteria that must be met to achieve final approval.	In Process



IV&V Findings and Recommendations

Project Management

#	Key Findings	Criticality Rating
19	<p>Issue - The lack of an approved, baselined project schedule obscures the ability of stakeholders to accurately measure project progress and/or impacts to the schedule. Despite on-going efforts to establish project management processes, the project schedule baseline was neither completed by the ASI nor accepted by DHS for the majority of the March reporting period. The ASI has made assertions that delays on some tasks have affected the project timeline, however without a completed baselined schedule, transparency in this regard was obscured. The ASI has been re-structuring and baselining the schedule throughout the month of February, with a goal of delivering the revised, baselined schedule by the end of February. A baselined schedule was not delivered nor approved by the end of February, however, Gary Hirata, DHS BESSD Project Manager reported that a draft project schedule had been shown to him on February 28. In anticipation of a draft project schedule being formally delivered in early March, this finding was initially entered as a concern. When the project schedule was not delivered in early March, this finding was escalated to an Issue.</p> <p>A draft copy of the project schedule was presented and delivered on 3/27/19. IV&V is currently reviewing the draft project schedule. The finding remains at a High criticality rating pending review by IV&V and DHS.</p>	

Recommendations	Progress
<ul style="list-style-type: none">Upon completion and acceptance of the project schedule, it should be used to provide information on what tasks and activities are in-flight, their status, key resources involved, and downstream dependencies, and should be reported out to DHS weekly.	New

IV&V Findings and Recommendations



M Configuration and Development



#	Key Findings	Criticality Rating
10	Risk – The number of instances of Siebel to be implemented for BES Project is undecided, which may impact the project schedule and project costs. IV&V has no material update to this risk and is not aware if the planned working session between the ASI and DHS was held, or, if additional information on the ROM has been provided to DHS.	H

Recommendations	Progress
<ul style="list-style-type: none">• Work collaboratively (DHS, ASI and ESI) to develop a long term infrastructure strategy along with 5+ year ROI, cost/benefit, license strategy, and risk proposition that includes an assessment of a single vs. dual instance assessment.• Record the decision in the Decision Log – even if the decision remains within project scope – to memorialize the outcome and alleviate the impact of the topic resurfacing later.	In Process



IV&V Findings and Recommendations

Configuration and Development


#	Key Findings	Criticality Rating
12	Risk – Changes in direction regarding the preferred platform for portal development may impact project schedule and cost. IV&V has no update to this risk and is not aware of further Project Impact Analysis (PIA) details being submitted.	
13	Risk – Differing ASI and ESI expectations regarding DDI environments may impact project schedule and cost. It is IV&V's understanding that, in an effort to mitigate the current need for a development environment, Unisys is in process of provisioning and standing up an Oracle Cloud environment. It is anticipated that this environment should be ready for use by approximately the end of April. It remains unclear if/how reimbursement for the funding for this environment is envisioned by DHS.	

Recommendations	Progress
<ul style="list-style-type: none"> Complete the CR process to obtain a Rough Order of Magnitude (ROM) estimate and/or impact analysis as appropriate. 	In Process
<ul style="list-style-type: none"> ASI work with the State to reach a common understanding of the requirements for the BES DDI environments. ESI and ASI work together to formulate an environment strategy that will meet the project platform and development needs and minimize impact to the State. 	In Process



IV&V Findings and Recommendations

Configuration and Development

#	Key Findings	Criticality Rating
16	Risk – Lack of clear understanding of SI DDI approach may reduce effectiveness of JARs and JADs. IV&V has no material update for the March report. The ASI presented and submitted the draft DDI Plan on 3/27/2019. IV&V will review and analyze the DDI Plan and provide a more detailed update in the April report.	

Recommendations	Progress
PCG recommends one or more of the following to mitigate this risk: <ul style="list-style-type: none">• SI provide an additional DDI approach overview session for stakeholders and allow for Q&A• SI provide DDI approach documentation/materials for stakeholders to review and/or refresh their knowledge on demand; the materials could be made available via the project SharePoint• SI and DHS accelerate review, resubmission and approval of an acceptable DDI Plan DED to facilitate submission of DDI Plan deliverable• SI submit DDI Plan deliverable and make it easily available to all project stakeholders	In Process

IV&V Status

IV&V Engagement Status



IV&V Engagement Area	Jan	Feb	Mar	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final ESI Transition Readiness Assessment Update Report to DHS on 3/7/2019.
Centers for Medicare and Medicaid Services (CMS) IV&V Progress Reports				The first quarterly CMS Eligibility and Enrollment (E&E) IV&V Progress Report is anticipated to be delivered at the end of April 2019 (refer to the PPU submitted to CMS). The PPU has not been approved by CMS.
CMS Milestone Reviews				The first CMS Milestone Review date has not yet been determined.
IV&V Staffing				Brian Nagy transitioned into the role of IV&V Project Manager in March. LeAnne Scott remains on the project and has transitioned into the role of Senior Advisor and MEELC/MEET SME.
IV&V Scope				

Engagement Rating Legend		
	The engagement area is within acceptable parameters.	
	The engagement area is somewhat outside acceptable parameters.	
	The engagement area poses a significant risk to the IV&V project quality and requires immediate attention.	



IV&V Activities

- IV&V activities in March reporting period:
 - Completed – February Monthly Status Report
 - Submitted – Round three comments on the ASI PMP
 - Ongoing analysis of Medicaid Eligibility and Enrollment Toolkit (MEET) requirements applicable to BES project
 - Ongoing – Review DEDs and Deliverables for BES project
 - Ongoing – Attend ASI project meetings (see [Additional Inputs](#) pages for details)
- Planned IV&V activities for April reporting period:
 - Continued discussion and analysis of Medicaid Eligibility and Enrollment Toolkit (MEET) requirements applicable to BES project with DHS PMO and BES Project Director
 - CMS E&E IV&V Progress Report – Draft submission
 - Ongoing – Observe BES JAD and Workgroup sessions
 - Ongoing – Observe Weekly Project Status meetings
 - Ongoing – Observe bi-weekly BES Project Risk and Issue meetings
 - Ongoing – Participate in weekly DHS and IV&V Touch Base meetings
 - Ongoing – Review BES artifacts and deliverables

Deliverables Reviewed



Deliverable Name	Deliverable Date	Version
BI-02 Project Status Report Deliverable	03/06/2019 03/13/2019 03/20/2019 03/27/2019	
BI-03(a) Project Information Library Deliverable	03/28/2019	V1.3
BI-05 Project Schedule Deliverable Baseline Preliminary Draft	N/A	
BI-04 Project Management Plan Deliverable – Base Document Re-Assessment 2	03/01/2019	V0.3
BI-04 Project Management Plan Deliverable – Budget/Cost Management Sub-Plan Re-Assessment 2	03/05/2019	V0.3
BI-04 Project Management Plan Deliverable – Resource Management Sub-Plan Re-Assessment 2	03/08/2019	V0.3
BI-04 Project Management Plan Deliverable – Procurement Management Sub-Plan Re-Assessment 2	03/05/2019	V0.3
BI-04 Project Management Plan Deliverable – Change Management Sub-Plan Re-Assessment 2	03/04/2019	V0.8
BI-04 Project Management Plan Deliverable – Communication Management Sub-Plan Re-Assessment 2	03/06/2019	V0.3
BI-04 Project Management Plan Deliverable – Quality Management Sub-Plan Re-Assessment 2	02/28/2019	V0.3
BI-04 Project Management Plan Deliverable – Schedule Management Sub-Plan Re-Assessment 2	03/06/2019	V0.2
BI-04 Project Management Plan Deliverable – Scope Management Sub-Plan Re-Assessment 2	03/04/2019	V0.4

Deliverables Reviewed



Deliverable Name	Deliverable Date	Version
BI-04 Project Management Plan Deliverable – Issues and Risk Management Sub-Plan Re-Assessment 2	03/21/2019	V0.4
BI-06 System DD&I Plan Preliminary Draft	03/19/2019	V0.3



Additional Inputs – Artifacts

Artifact Name	Artifact Date	Version
JAR Meeting Results	2/26/2019	N/A
JAD Schedule	3/18/2019	N/A
BES Project Decision Log (SharePoint)	3/10/2019	N/A
BES Risk and Issue Log (Excel)	3/17/2019	N/A
MDM Consent and Referral Management Meeting Minutes	3/18/2019	N/A
JAD Issues and Decision Process	2/10/2019	N/A
BES RFP and Unisys BAFO	BAFO	
MEET Checklists and Process	3/21/2019	N/A
Change Request 2018-0002a – Project Schedule and Releases – CR Approval and Notice to Proceed	03/28/2019	N/A
Consent Management Platform (OES Implementation) High Level Architecture	09/19/2018	
Use Cases for Consent Management	N/A	

Additional Inputs






- **Meetings and/or Sessions Attended/Observed:**
- Project Risk and Issue Meetings (March 13, March 27)
- Change Control Bi-Weekly (March 6, March 20)
- BES Project Status Meetings (March 6, March 13, March 20, March 27)
- BESSD PMO, IV&V Meeting (March 6, March 13, March 20, March 27)
- Preliminary Draft Project Schedule Review (March 5, March 27)
- Preliminary Draft DD&I Plan Review (March 27)
- Functional and Technical Standards Workgroup (March 7, March 21, March 28)
- MDM, Consent Management, Referral Management Workgroup (March 7)
- PMP DCF Review / Working Session (March 7)
- JAD Actions/Decisions (March 25)
- MEET Checklists / Vendor Evidence and Parameters (March 26)
- Enterprise Operations Committee (March 14, March 28)
- Enterprise Steering Committee (March 21)

Appendices



Appendix A – IV&V Criticality Ratings

Criticality Rating	Definition
 H	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
 M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely and a different approach may be required. Mitigation strategies should be evaluated and implemented as soon as feasible.
 L	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.

Appendix B – Findings Log



- The complete Findings Log for the BES Project is provided in a separate file.

Appendix C – Acronyms and Glossary



Acronym	Definition
APD	Advance Planning Document
ASI	Application System Integrator
BES	Benefits Eligibility Solution
CCWIS	Comprehensive Child Welfare Information System
CM	Configuration Management
CMMI	Capability Maturity Model Integration
CMS	Center for Medicare and Medicaid Services
CR	Change Request
DDI	Design, Development and Implementation
DED	Deliverable Expectation Document
DHS	Hawaii Department of Human Services
DLV	Deliverable
E&E	Eligibility and Enrollment
EA	Enterprise Architecture
ECM	Enterprise Content Management (FileNet and DataCap)
ESI	Enterprise System Integrator (Platform Vendor)
ETS	State of Hawaii Office of Enterprise Technology Services
FIPS	Federal Information Processing Standard
HIPAA	Health Information Portability and Accountability Act of 1996
IDM	Identity and Access Management (from KOLEA to State Hub)
IEEE	Institute of Electrical and Electronics Engineers
IES	Integrated Eligibility Solution
ITIL	Information Technology Infrastructure Library



Appendix C – Acronyms and Glossary

Acronym	Definition
IV&V	Independent Verification and Validation
KOLEA	Kauhale On-Line Eligibility Assistance
M&O	Maintenance & Operations
MEELC	Medicaid Eligibility and Enrollment Life Cycle
MEET	Medicaid Eligibility and Enrollment Toolkit
MOU	Memorandum of Understanding
MQD	Hawaii Department of Human Services MedQuest Division
NIST	National Institute of Standards and Technology
OE	Operating Environment
OIT	Department of Human Services Office of Information Technology
PIP	Performance/Process Improvement Plan
PMBOK®	Project Management Body of Knowledge
PMI	Project Management Institute
PMO	Project/Program Management Office
PMP	Project Management Plan
QA	Quality Assurance
QM	Quality Management
RFP	Request for Proposal
ROM	Rough Order of Magnitude
RMP	Requirements Management Plan
RTM	Requirements Traceability Matrix
SEI	Software Engineering Institute
SLA	Service-Level Agreement
SME	Subject Matter Expert

Appendix C – Acronyms and Glossary



Acronym	Definition
SOA	Service Oriented Architecture
SOW	Statement of Work, Scope of Work
VVP	Software Verification and Validation Plan
XLC	Expedited Life Cycle

Appendix D – Background Information



Systems Modernization Project

The DHS Enterprise Program Roadmap includes contracting with three separate vendors with the following high-level scope:

- ESI or Platform Vendor – responsible for the shared technology and services required for multiple Application vendors to implement and support functionality that leverages the DHS Enterprise Platform.
- ASI or ASI Vendor – responsible for the DDI of the Benefits Eligibility Solution (BES Project) enhancing the currently implemented Medicaid E&E Solution (KOLEA) and providing support for the combined Solutions.
- CCWIS Vendor – responsible for the DDI of the CCWIS Solution to meet the needs of child welfare services and adult protective services (CCWIS Project) and providing support for the Solution.

Systems Modernization IV&V Project

IV&V performs objective assessments of the design, development/configuration and implementation (DDI) of DHS' System Modernization Projects. DHS has identified three high-risk areas where IV&V services are required:

- Transition of M&O from DHS' incumbent vendor to the ESI and ASI vendors
- BES DDI
- CCWIS DDI

On the BES DDI Project, IV&V is responsible for:

- Evaluating efforts performed by the Project (processes, methods, activities) for consistency with federal requirements and industry best practices and standards
- Reviewing or validating the work effort performed and deliverables produced by the ASI vendor as well as that of DHS to ensure alignment with project requirements
- Anticipating project risks, monitoring project issues and risks, and recommending potential risk mitigation strategies and issue resolutions throughout the project's life cycle
- Developing and providing independent project oversight reports to DHS, ASI vendors, State of Hawaii Office of Enterprise Technology Services (ETS) and DHS' Federal partners

Appendix D – Background Information



What is Independent Verification and Validation (IV&V)?

- Oversight by an independent third party that assesses the project against industry standards to provide an unbiased view to stakeholders
- The goal of IV&V is to help the State get the solution they want based on requirements and have it built according to best practices
- IV&V helps improve design visibility and traceability and identifies (potential) problems early
- IV&V objectively identifies risks and communicates to project leadership for risk management

PCG's Eclipse IV&V® Methodology

- Consists of a 4-part process made up of the following areas:
 1. **Discovery** – Discovery consists of reviewing documentation, work products and deliverables, interviewing project team members, and determining applicable standards, best practices and tools.
 2. **Research and Analysis** – Research and analysis is conducted in order to form an objective opinion.
 3. **Clarification** – Clarification from project team members is sought to ensure agreement and concurrence of facts between the State, the Vendor, and PCG.
 4. **Delivery of Findings** – Findings, observations, and risk assessments are documented in this monthly report and the accompanying Findings and Recommendations log. These documents are then shared with project leadership on both the State and Vendor side for them to consider and take appropriate action on.

IV&V Assessment Categories for the BES Project

- Project Management
- Requirements Analysis & Management
- System Design
- Configuration and Development
- Integration and Interface Management
- Security and Privacy
- Testing
- OCM and Knowledge Transfer
- Pilot Test Deployment
- Deployment



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Finding #	Title	Finding Type	Identified Date	Category	Source	Observation	Significance	Recommendation	Event Horizon	Impact	Probability	Priority	Analyst Priority	Finding Status	Date Retired	Status Update	Client Comments	Vendor Comments
1	Current project management techniques in the JAR and JAD sessions may negatively impact system design	Finding - Risk	10/31/2018	Project Management	Observation	<p>Finding: IV&V has observed weak meeting facilitation skills and noted that meeting minutes or notes from all of the Joint Application Review (JAR) and Joint application Design (JAD) sessions are not posted on the BES SharePoint site.</p> <p>General Observation from October reporting period: During requirements validation, all Policy requirements were 'docked', or tabled, for further research and discussion. It is unclear whether Policy requirements should be met within the BES solution, or outside of the BES solution. How the requirements and processes for Preliminary Eligibility requirements can or should be satisfied within BES is a large process change for DHS. It was clear during requirements validation that there was not agreement on how this should work within BES and DHS.</p>	<p>If JAR and JAD notes are not consistently posted, session participants are unable to validate if input has been accurately recorded, potentially affecting BES system functionality.</p>	<p>•Implement project management best practices and identify opportunities to improve meeting management techniques. Publish/post missing JAR/JAD session notes on SharePoint, and moving forward, publish notes within a reasonable period of time (e.g., 24 hrs) after completion of any given session.</p>	Q1 2019	3	3	Medium	Med	Open		<p>03/26/2019 - IV&V notes that the third round of PMP comments by IV&V and DHS has been submitted to the ASI, but the deliverable has not yet been accepted. DHS deemed the PIP as sufficient enough to allow ASI-led Workgroup Meetings to commence in March 2019. IV&V will continue to monitor this risk through acceptance of the PMP and upon verification that JADs are following the redesigned processes as stated in the PIP, and that the processes are effective. 03/13/2019 - February comments updated as noted. 02/28/2019 - IV&V notes significant momentum in resolving this risk was achieved in February. The ASI continued to refine the Process Improvement Plan (PIP) for JADs. Issues cited within the JAR and JAD processes have been addressed, and Stakeholders are becoming more comfortable with the revised approaches. Unisys asserts that data collected in the first few JADs is considered useful and will be documented in use cases and functional design documents, notwithstanding the volume of process and output changes in the PIP. IV&V will assess the 3/31/2019 - The PMP continues in the review cycle by DHS and IVV, with the third round of comments having been submitted to the ASI. A revised draft project schedule was submitted on 3/27/2019, however IV&V would like to review and analyze the schedule before taking any further action on this finding. 2/28/2019 - The PMP is in its second review cycle by DHS and IVV. A revised project schedule had not been published by the end of this review period, however, Gary Hirahata, DHS BESSD Project Manager reported that a draft project schedule had been shown to him on February 28. The revised project schedule is expected to be formally submitted for review and approval in early March, and will be preceded by a walk through of the schedule and tracking tools and format. The risk remains at a High priority pending formal submission of the revised project schedule, and evaluation of the impact to project dates. 1/31/2019 - The ASI delivered the Draft PMP for review by DHS and IVV. The project schedule has not been updated and the 03/26/2019: IV&V acknowledges that the ASI has made multiple changes to the weekly status report. Nevertheless, the changes have not satisfactorily improved the State's understanding of project progress nor provided sufficient transparency into ASI activities. The ASI weekly status report must present sufficient project information for the report to independently stand on its own; providing enough content and detail that any project stakeholder reading the report would have a clear understanding of project accomplishments, in-progress work, planned work, changes, and potential challenges. IV&V recommends that the ASI provide additional information that will enable greater insight into project activities, which may include the following: - An aggregate of hours spent on in-progress tasks, activities, and deliverables - In-progress task, activity, deliverable, and work product percent complete, and the delta in progress from week to week - Expected completion dates of all in-progress</p>	<p>2019/03/13 Bill Thornton, Unisys: Data collected in the initial JADs is useful and will be documented in the use cases and FDDs for those subject areas.</p>	
2	Late delivery of project deliverables may result in schedule delays.	Finding - Risk	11/28/2018	Project Management	Observation	<p>Based upon the project schedule dated 11/26/18 (refer to schedule for specifics), several due dates for project deliverables have been missed. As of the date of this report, these deliverables include the Project Management Plan (PMP), which is the formal document that is used to manage the execution of the project. In some instances, this risk may be compounded by a backlog of Deliverable Expectation Documents (DED) requiring approval and acceptance from the State.</p>	<p>Without a PMP that depicts all Project Management processes, the Project can suffer unplanned consequences in scope, schedule, cost, and quality parameters.</p>	<p>IVV recommends that the ASI works to complete the Project Management Plan deliverable, work with DHS and IV&V for review and edit as needed, and attain approval of the PMP. This will help ensure that all processes within the project management entity are thoughtfully and collaboratively developed and implemented to meet the needs of the project. Review the project schedule to capture and discuss the late deliverables and delivery thereof; complete the Project Management Plan and deliver it for review to DHS and IV&V for review; attain approval of the PMP.</p>	TBD	4	3	High	High	Open		<p>3/13/19 Bill Thornton, Unisys: Specific to the PMP, the DED was approved by DHS on 1/15/2019 and the deliverable submitted on 1/21/2019. Specific to the project schedule, the DED was approved by DHS on 1/23/2019 and the deliverable is planned for submission the week of 3/18/2019. 2/6/19, Bill Thornton, Unisys: Executive Summary Risks Feedback The project schedule has been baselined but it needs to be re-baselined based on the approval dates of the DED's. Deliverable delays – as deliverables are not supposed to be started</p>		
3	Project Status Reporting does not meet with expectations or Best Practices for presenting status updates of schedule, cost, scope, risks, issues, and change management, which may inhibit effective project management and limit project transparency.	Finding - Risk	11/19/2018	Project Management	Observation	<p>Although the Project Status Report follows the RFP requirements, IV&V has observed that the Status Report does not list/track all of the current project tasks and activities, and appears to primarily reflect tasks and activities requiring DHS participation. Additionally, the content of the Project Status Report in some areas (e.g., risks and issues) is redundant to BES SharePoint Log. Examples include: 1. The Project Status Report does not include tracking of ALL current tasks and activities. It appears to largely be limited to only tasks and activities requiring DHS participation. 2. The Project Status Report includes multiple sections for Risks and Issues, which are redundant to a corollary SharePoint Risk and Issue Log. 3. All current 'Issues' cited in the Status Report are incorrectly listed as 'Risks' in the Risk and Issues Log on SharePoint.</p>	<p>Reporting Project Status on some, but not all, areas of the project provides an incomplete understanding of the status of the entire project. A complete understanding is necessary to ensure that scope, cost, and schedule parameters are all being met across the project.</p>	<p>IVV recommends that DHS, the ASI, and IVV jointly determine revisions to the Project Status Report that would meet the needs of reporting on all active tasks and activities, and that redundancy between the data contained in the Project Status Reports and the SharePoint logs is removed.</p>	February 2019	5	3	High	Med	Open		<p>2/6/19, Bill Thornton, Unisys: Findings and Recommendations (#3) – Project Management Status reporting – The original status report adhered to the DED – it has been adjusted multiple times based on feedback. 12/6/18, Keith Stock, Unisys: 3) Status report structure is dictated by the RFP. There is an ongoing action item to modify structure and content by mutual agreement</p>		

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4	An unclear deliverable review and acceptance process may be contributing to project delays.	Finding - Risk	11/28/2018	Project Management		Project processes for delivering, noticing and reviewing project deliverables are unclear. In order to identify whether a deliverable is available for review, the IV&V team must review the project schedule and check for deliverable postings to SharePoint. While the ASI may be submitting deliverables to the BES Project Manager, neither the IV&V team nor the PMO are notified. As a result, review cycle-times may be missed and deliverable acceptance can be delayed, which may inhibit the ASI's ability to move forward on future tasks.	An unclear deliverable review and approval cycle can lead to project delays.	Finalize the deliverable review and acceptance process that clarifies to whom the deliverables are to be submitted, how the deliverables are to be notified (e.g., SharePoint alert or email notification), and when review comments are due in order to finalize the deliverables on a timely basis. Include this process in the PMP.	December 2018	3	3	Medium	Med	Retired	3/29/2019	3/29/2019 - IV&V is retiring this risk as the deliverable review process has fully adopted and implemented by the project team. 2/28/2019 - The project made progress in mitigating this risk in February. DHS developed, and the project team adopted, a deliverable review and approval process. The project team is adjusting to the process along with revisions to the tracking/reporting methodology for deliverables. With consideration to the deliverables expected to be received in March, IVV will observe the deliverable review process and potential retirement of this risk. 1/31/2019 - Both the ASI and DHS proposed deliverable review and approval processes in January. The DHS PMO and BES Project Manager drafted a deliverable review/approval process that includes the PMO preferred Deliverable Comment Form (DCF) to aggregate reviewer comments. The ASI included a deliverable review/approval process along with an alternate comment form within the draft PMP. The DHS PMO is working with the ASI to determine the process to be implemented and. 3/31/2019 - As the PPU has not been approved, and the CMS reorganization is still underway, IV&V has not update to this risk. 2/28/2019 - DHS reports that CMS is moving to a new organizational structure where one person will handle all APDs (IAPD-U, OAPD-U) for the state. Steven Chang is Hawaii's State Officer. The PPU will be transitioned to Steven Chang for disposition. The risk remains a High priority pending CMS approval. 1/31/2019 - No update. 12/31/2018 - On December 17, 2018, the State submitted the PPU to CMS for their review and approval. The PPU limits scope to any new Medicaid Functionality and includes the CMS Status Report Schedule and overall BES high-level schedule.		
5	The Project Partnership Understanding (PPU) for the BES Project has not been approved by CMS, which may impact the project schedule and funding.	Finding - Risk	11/26/2018	Project Management	Observation	The CMS Project Partnership Understanding (PPU) is not finalized between the State and CMS for this project. If funding is expected from CMS, they may require alignment to the MITA Framework, Gate Reviews and/or use of the Medicaid Eligibility and Enrollment Toolkit (MEET) Checklists. The MEET checklists are developed prior to the CMS gate reviews and are part of the Medicaid Eligibility and Enrollment Life Cycle (MEELC) that defines the CMS processes for Eligibility and Enrollment projects.	If the PPU is not finalized prior to the State's approval of the functional and technical requirements, the projects Federal funding may be at risk.	The State and CMS complete the PPU and the project incorporate all Federal reporting and process requirements into the appropriate project deliverables.	Prior to Functional and Technical Requirement Approval.	5	3	High	High	Open				
6	The BES Risk and Issues Log lacks necessary data elements, which are needed to afford complete transparency.	Finding - Risk	11/26/2018	Project Management	Observation	IV&V has observed that the current Risk and Issues log on SharePoint lacks certain necessary data elements to effectively mitigate risks and contain issues. These elements include Risk Exposure, Required Mitigation / Closure Timeframe or Date, Mitigation Steps, and Updates to Mitigation Steps. It should be noted that the current Risk and Issues Log was provided by DHS and is in the default DHS Risk and Issues format.	Complete documentation of risk and issues is critical to mitigate risks on current projects and prevent similar issues on future projects. Without the integration of effective risk and issue tracking with project status reporting, complete transparency is not afforded and the ability to mitigate risk is diminished.	Meet (DHS, ASI, IV&V) to determine all elements needed to support the Risk and Issue Management processes. Following that activity, update the Risk and Issues log to reflect all agreed-upon elements.	February 2019	3	2	Medium	Med	Retired	2/28/2019	02/28/2019 - IVV has reviewed the Excel workbook to determine if all needed elements for tracking have been included. The date of last update was missing, and has since been corrected by the ASI. IVV recommends retiring this finding. 01/31/2019 - Late in the month (1/29), the Project decided to abandon the SharePoint log in favor of an Excel workbook developed by the ASI. IVV will review and assess the new workbook in early February to determine if all needed elements for risk and issue tracking have been included. 12/31/18: The planned meeting to review, discuss, and tailor the Risk and Issues Log was not held in December, but is anticipated to be held in early January. 12/06/2018; IVV recognizes that the SharePoint Log was provided by DHS. A meeting to review, discuss, and tailor the log to meet the needs of the BES Project is expected to take place during December.	12/4/18, Tracey Laride: Key Finding #6, p.12. Is the "Risk Exposure" the same as the Severity or Probability fields on SharePoint? If not, then can you clarify what "Risk Exposure" is? I think "Mitigation Steps" may be the same as Recommendation(s) in the log? If yes, the title can be changed to Mitigation Steps. For the "Updates to Mitigation Steps", it is entered with a date of the update into the comments section of the logged item. If needed, the field title can be changed.	12/6/18, Keith Stock, Unisys:6) The risk and issue log has been provided as a default to all DHS projects along with instructions. DHS PMO has asked for clarification from IV and V and will likely agree to add additional fields

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7	The Change Management Process is not fully documented and approved, which could delay Change Requests and affect scope, schedule, cost, and quality.	Finding - Risk	11/27/2018	Project Management	Observation	The Change Management Process is not yet documented and approved. All three (3) risks currently tracked in the SharePoint Risk and Issues log indicate the potential need for a formalized Change Management process.	If the Change Management process is not developed and instituted, there is a high likelihood that needed Change Requests could be delayed, which could negatively affect scope, schedule, cost, and quality.	IVV recommends that the ASI complete development of the Change Management Plan, and collaborate with DHS to ensure the process is institutionalized for the BES Project.	January 2019	3	2	Medium	Med	Open		03/26/2019: The ASI updated the Change Management Plan as a component of the third draft of the PMP. After incorporation of final comments, IV&V anticipates this finding should be ready for closure in the April reporting period. 02/28/2019: The ASI updated the Change Management Plan as component of the second draft of the PMP. There remain some outstanding comments to be addressed by the ASI, however, the Change Management Plan is now closer to meeting stakeholder expectations. The risk remains at a Medium priority pending finalization and approval of the plan. 01/29/19 - The ASI updated the Change Management Plan sub component of the PMP, and delivered it as a draft. IV&V is in process of review and assessment of all PMP sub plans. 12/31/18: IV&V reviewed the Change Management Plan artifact, and provided assessment comments to DHS and the ASI for resolution. The risk remains open at a Medium criticality pending finalization of the Plan. 12/6/18: IV&V was provided a copy of the Change Management artifact in early December.	12/4/18, Tracey Laride: Key Finding #7, p12. The Change Management process is documented and is in the review process with DHS.	
8	The SharePoint Decision Log is not being used to record project decisions, which will hamper communications and cause decisions to be revisited	Finding - Risk	11/27/2018	Project Management	Observation	The SharePoint Decisions Log is not being used to record and track project decisions, and it requires additional data elements for tracking and reporting on Decisions such as: Decision Types, Decision Sub-Categories, etc.	If Project Decisions are not recorded on a central repository (such as the SharePoint Log developed for this purpose), communications based on Project Decisions are likely to become hampered, and decisions will need to be revisited multiple times.	IV&V recommends that DHS, the ASI, and IV&V meet to determine all elements needed to support the Decision Log and associated processes, and that the project institutionalizes the process. Following that activity, IV&V recommends that the DHS SharePoint Decisions log is updated to reflect all agreed-to needed elements and decisions.	January 2019	3	3	Medium	Med	Retired	12/6/2018	12/06/2018: Per the ASI, there are no Decisions to enter into the Decisions Log. This is confirmed with DHS BES. Based on this correction of fact, IV&V will retire this finding, and will open up new findings to address the separate topics of the lack of a documented decision making process and the need for additional data elements in the Decision Log.	12/4/18, Tracey Laride: Key Finding #8, p. 13. Is the IV&V recommending DD&I BESSD decisions (requirements, design, etc.) be logged here or BES Scope (Change Management) decisions be logged here or both?	12/6/18, Keith Stock, Unisys: 8) . It is being used there just are not any decisions yet to log
9	BESSD leads and/or teams have not been assigned to the Project, which negatively impact the schedule and workload.	Finding - Risk	11/30/2018	Project Management	Observation	IV&V has observed that DHS has not designated specific individuals to serve as BESSD leads to support the project. In addition, although the SharePoint site for the project indicates that BESSD teams have been envisaged for BI and Reporting, Data Conversion, Functional, Organizational Change Management, Project Management, Security, Technical, Testing and Training, team members have not been identified.	Without committing dedicated BESSD resources to the project, the schedule is at risk as project demands (e.g., meeting attendance, document review) and workloads increase. For a project of this size and significance, the involvement of subject matter experts to ensure that the solution is designed to meet the business needs is critical.	Identify high-priority areas where BESSD Leads are needed and obtain executive level support to reallocate BESSD staff to the project soon as possible. Re-assess the need for support throughout the project life cycle to ensure that the appropriate subject matter experts are available as required.	January 2019	3	3	Medium	Med	Open		3/27/19 - DHS has hired a project management assistant and business analyst, but IV&V is not aware of the details of their roles or responsibilities. IV&V will continue to monitor this risk and will provide updates in the April as more details of roles and responsibilities are learned. 2/28/19: JAD sessions remain on hold. 1/31/19: JAD sessions were placed on hold in January. This risk remain open pending resumption of JAD sessions and observation of the results of the BES staffing assignments made in late December. 12/31/18: The DHS Project Manager (PM) provided Unisys with the staffing assignments for deliverable reviews on 12/31/18. Further, the DHS PM advised IV&V that DHS BESSD has defined roles and assigned Lead responsibilities for JADs to their project staff, and an escalation process has been defined. This information was announced the week of December 31st. This risk remains open – downgraded to a Medium criticality – pending observation of results of these actions.	2019 03 14 Aileen Hiramatsu: we (DHS) do not recall any agreement on 3/6 to accept the JAD/workgroup schedule and that work has begun on both. Only the technical workgroups have started.	03/13/2019 Bill Thornton, Unisys: JAD session schedule has been published and agreed to on March 6th and JADs/Workgroups are in progress.

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10	The number of instances of Siebel to be implemented for BES Project is undecided, which may impact the project schedule and project costs.	Finding - Risk	11/28/2018	Configuration and Development	Observation	Discussions are ongoing regarding the need for single vs. dual instances of Siebel to support the ability to share data between MQD and BESSD. Although the ASI's BAFO proposed dual instances and the ASI has indicated the need to memorialize this in the project Decision Log, DHS has expressed an interest in a single instance. This scope change could introduce a significant cost/schedule impact to the project. The ASI is currently tracking this as a high risk to the project and has indicated this could incur a 1 year delay. Details of moving to a single instance have yet to be resolved. Such a move would be out of scope of the existing contract. The decision on one versus two instances of Siebel could have negative impact to scope, cost and schedule.	This scope change could introduce a significant cost/schedule impact to the project. A decision to move forward with one versus two Siebel instances could result in additional project costs and schedule delay, and would likely be a significant effort that is out of scope of the existing contract. If the decision is delayed, the vision of data sharing between the departments could be compromised. The sooner this decision is finalized, the better the chances for successful mitigation in the best interest of the project.	1. Work collaboratively (DHS, ASI and ESI) to develop a long term infrastructure strategy along with 5+ year ROI, cost/benefit, license strategy, and risk proposition that includes an assessment of a single vs. dual instance assessment. 2. Record the decision in the Decision Log – even if the decision remains within project scope – to memorialize the outcome and alleviate the impact of the topic resurfacing later.	Q1 2019	4	4	High	High	Open		3/27/19 - IV&V has no material update to this risk and is not aware if the planned working session between the ASI and DHS was held, or, if additional information on the ROM has been provided to DHS. 2/28/19 - DHS has initiated a CR in order to better understand the associated costs of the single instance. This risk remains open with high criticality due to increasingly high potential for rework the longer the decision is pending. 1/31/18 - ASI has provided DHS with Use cases which DHS has reviewed. DHS to determine if a CR will be submitted to develop ROM pricing and schedule impacts for a single instance. 12/31/18: DHS PMO is developing use cases that will describe the DHS business need (i.e., the overarching need for all of DHS vs only BESSD), and intends to discuss the business need for a single instance with Unisys in January to help bring about an understanding of the importance and urgency. This risk remains high due to increasingly high potential for rework the longer a decision is pending.12/6/18: The language about a CR caused the finding to be a		12/6/18, Keith Stock, Unisys:10) We agree that this "decision" needs to be finalized and memorialized. However, we are unclear as to how a potential change request (i.e. potentially changing from the proposed dual instance approach to a single instance) is a high risk to the project. It would be a change. If a change is requested, the change would go through the Change Request process where DHS could assess the impact of cost, time, etc. and determine to move forward or not. In other words, if we do nothing, no issue, we are moving forward as proposed ... no risk. If they decide to change, they will do so via
11	Changes in direction regarding the preferred business intelligence (BI)/reporting tool may impact project schedule and cost. [Cognos vs. OBIEE]	Finding - Risk	11/28/2018	Configuration and Development	Observation	The project intends to utilize OBIEE, instead of Cognos, for the BES project business intelligence (BI)/reporting solution. The Change Request (CR) for this change to the original contract has been drafted and is currently under review. Unclear if DHS will be able to fund this CR or if it will involve de-scoping/scope swaps.	IV&V has insufficient information to fully analyze the impact(s) on this project, thus a low criticality rating has been assigned until such analysis can be performed.	• Complete the CR process to obtain a Rough Order of Magnitude (ROM) estimate and/or impact analysis as appropriate	Q1 2019	3	4	High	Low	Retired	2/28/2019	3/27/19 - No change. 2/28/19 - ASI has stated the move to OBIEE will incur no addition cost to DHS and will submit a no cost CR. 1/31/19 - No progress.12/31/18: A draft CR was initiated by DHS but has not yet been provided to Unisys to start the change management process. The draft CR contains no stated impacts to the schedule, project cost, or platform costs (e.g., licensing, et al). This low criticality risk remains open pending completion of the CR process.		
12	Changes in direction regarding the preferred platform for portal development may impact project schedule and cost. [LifeRay vs. Adobe]	Finding - Risk	11/28/2018	Configuration and Development	Observation	The project intends to utilize Adobe as the preferred platform for portal development, instead of LifeRay (which is currently used for the existing KOLEA portal platform), as the BES project web portal solution. Adobe Forms is currently out of scope for the BES portal but is in scope for BES PDF production. This decision represents a change in scope and requires a CR, which is currently in process. ASI has given DHS a Rough Order of Magnitude (ROM) estimate of \$2.8 million for this CR and has also provided a more details PIA. As of the date of this report, the Project is tracking this as a 'Top Level Issue.' It is unclear if DHS will be able to fund this CR or if it will involve de-scoping/scope swaps.	If DHS executes a change request to implement Adobe as the BES portal solution, there will be a significant impact to the project budget. The ASI has stated that if the portal platform is not decided soon there will be schedule impacts as they need to staff for the appropriate skillset. ASI has also stated they may begin developing a solution in LifeRay until a CR is executed to move to Adobe.	• DHS request more details from the ASI to better understand the details around such a high cost to move to an Adobe-based BES portal solution. • DHS request more details from the ASI to better understand the ASI's urgency to begin portal development now instead of focusing on other areas of design and development.	Q1 2019	3	3	Medium	Low	Open		3/27/19 - IV&V has no update to this risk and is not aware of further PIA details being submitted. 2/28/19 - Recent DHS analysis of the PIA estimate indicates a discrepancy between the hourly rate quoted in the Unisys proposal and rates quoted in the PIA. DHS has requested the ASI provide a more detailed PIA with itemized costs/tasks. 2/13/19 - A Project Impact Analysis (PIA) was submitted by the ASI, with a cost estimate of \$3.76M. 1/31/19 - A project impact assessment (PIA) is being created by the ASI. The ASI previously estimated the overall ROM cost to be approximately \$2.8M. ASI has estimated annual license costs for LifeRay to be \$80k/yr and Adobe at \$140k/yr. 3/1/19 - The ASI has provide PIA (detailed CR estimate) but DHS has requested the ASI update to provide itemized costs to help them understand the seeming high cost. Unclear how much of the existing KOLEA Liferay portal solution will be reusable for the new Adobe solution and whether reuse could help reduce the cost. 12/29/18: A CR was initiated by DHS and provided to Unisys in December. An Initial		03/13/2019 Bill Thornton, Unisys: Clarification has been provided to the composite rate applying to DDI enhancements with the existing technology stack. Adobe is a new technology and the composite rate does not apply. We will update the PIA with effort and the roles utilized.

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13	Differing ASI and ESI expectations regarding DDI environments may impact project schedule and cost	Finding - Risk	11/28/2018	Configuration and Development	Observation	The ASI has requested development environments to support BES DDI that the existing on-premise infrastructure may not support. There is discussion that the underlying challenge relates solely to the number of environments, in fact, the ASI is not requesting more environments than specified in their BAFO. The ASI is requesting development environments for the BES Project that are aligned with the platform and application software upon which the BES solution will reside in production. It is IV&V understanding that the existing KOLEA development environments have not been kept up to date (e.g., tool and operating system patches and updates) and that a concerted effort to bring those environments current would be necessary if the ASI could use the KOLEA environments. However, since the BES solution is planned to be	If the ASI is constrained by having to develop the BES solution in the existing KOLEA development environments (regardless whether those environments are up to date), the quality of the BES solution may be negatively affected. The BES solution could not be fully tested on a production-like platform prior to roll-out or go-live. Nuances between Siebel versions, among other supporting software versions, between development and production can cause unexpected defects ranging from catastrophic to annoying. Creating suitable development environments for BES is a task that, from all appearances, was not anticipated by the ESI or DHS. Contract details notwithstanding, creation of new or re-purposed environments is complex and will require time and effort from DHS, the ESI, and the ASI. The contract details.	<ul style="list-style-type: none"> ASI work with the State to reach a common understanding of the requirements for the BES DDI environments. ESI and ASI work together to formulate an environment strategy that will meet the project platform and development needs and minimize impact to the State. 	Q1 2019	3	3	Medium	Med	Open	<p>3/27/19 - It is IV&V's understanding that, in an effort to mitigate the current need for a development environment, Unisys is in process of provisioning and standing up an Oracle Cloud environment. It is anticipated that this environment should be ready for use by approximately the end of April. It remains unclear if/how reimbursement for the funding for this environment is envisioned by DHS 3/13/19 - February comments corrected as noted. 2/28/19 - The ASI has stated their intention to implement development environments in the cloud and will soon submit a proposed solution to implement this change. Costs to DHS remain unclear. Some environments will remain on premise and be managed by the ESI (e.g., the DR environment). ASI has also stated their intention to utilize cloud environments to mitigate DHS security concerns with regard to Unisys off-shore resources. To date, however, details for implementation and finalization of the CR are incomplete. This risk has been downgraded to a Medium priority in light of the proposed solution(s). and pending</p>	<p>1/4/2019, Doug Murdock, CIO - ETS: DHS is aware of the environments issue and we are working with Oracle, Unisys and BIAS to find a resolution. BIAS and Unisys have indicated a need for more environments than expected and we have a disagreement about exactly what the contracts require or allow. We had a big meeting at Unisys to discuss the problem and BIAS and Unisys have submitted preliminary solutions. Both solutions involve setting up BES environments on the cloud and they require additional funding. I plan to meet with both next week and I have a meeting with Oracle on Thursday to discuss price of</p>	<p>3/13/19 Bill Thornton, Unisys: «ASI has submitted a proposed solution for the environment issue – not a no-cost CR. 2/6/19, Bill Thornton, Unisys: Findings and Recommendations (#13) – Configuration and Development DEV environment—This issue was entered into the risk register on December 5th not 1/30 as implied in this risk write-up. 12/6/18, Keith Stock, Unisys: 13) The comment that the ASI vendor is requesting “additional environments” is misleading. The ASI vendor is requesting the number of environments as described in</p>	
14	The Decision Log process is undefined, which may hamper communication and discovery of Project Decisions.	Finding - Risk	11/27/2018	Project Management	Observation	The process by which key project decisions should be added to the Decision Log is undefined and unclear. While it is not realistic to add each and every detailed project decision to a Decision Log, parameters need to be determined and documented that clearly indicate which decisions should be added to the log versus which decisions should not be added to the log.	If guidance is undefined/unclear on how the Decision Log will be utilized, it is highly likely that the log's purpose will not be met. Decisions at a too-detailed level will 'clutter' the log, and decisions at a too-broad level will cause decisions to be remain undiscovered; both of which will cause team members to be unaware of such decisions. The impact of both may cause rework in the project, which could lead to project delays and diminish project quality.	IV&V recommends that DHS, the ASI, and IV&V meet to determine the parameters that will be used to identify the level and types of decisions that will be entered in the log. This information should then be recorded in the Project Management Plan, Communications Plan, or other appropriate document/artifact.	First Key Decision	3	3	Medium	Low	Open	<p>03/26/2019. IV&V has no material update to this risk. Review of the third draft of the PMP is complete, however the Decision Log parameters were still not included. IV&V is adding a comment to the PMP document DCF to bring attention to this item, and anticipates having additional information in the April report. 02/28/2019: Review of the second draft of the PMP is complete, however, the Decision Log process was not present in the second draft of the PMP. 01/29/19: No change. Review of the draft PMP is underway, however the Decision Log process was not found in the initial review of the PMP. 12/31/18: No change. Parameters for how the Decision Log will be utilized have not yet been documented by the ASI or DHS PMO. It is assumed that this may be documented in the Project Management Plan, which has not yet been delivered to DHS. 12/6/18: Rated Low by the analyst due to only one Decision in play at this point in time.</p>			
15	The Decision Log lacks data elements needed for tracking and reporting on key Project Decisions, which may hamper discovery of decisions.	Finding - Risk	11/27/2018	Project Management	Observation	The SharePoint Decision Log requires additional data elements for tracking and reporting on Decisions such as: Decision Types, Decision Sub-Categories, etc.	If material data about the decision is not tracked and recorded, the Project may miss opportunities to benefit from trends in key decisions. Additionally, inadequate data capture may hamper reporting on decisions and ultimately obscure discovery of key decisions by project team members.	DHS, the ASI, and IV&V meet to determine all elements needed to support the Decision Log and associated processes. Following that activity, IV&V recommends that the DHS SharePoint Decisions log is updated to reflect all agreed-to needed elements and decisions.	First Key Decision	3	3	Medium	Low	Open	<p>03/26/2019. IV&V has no material update to this risk. Review of the third draft of the PMP is complete, however the Decision Log data elements were still not included. IV&V is adding a comment to the PMP document DCF to bring attention to this item, and anticipates having additional information in the April report. 02/28/2019: No Change. Review of the second draft of the PMP is complete, however Decision Log elements were not present in the second draft of the PMP. 01/29/19: No change. Review of the draft PMP is underway, however Decision Log elements were not found in the initial review of the PMP. 12/31/18: No change. The necessary data elements for the Decision Log have not yet been finalized by the ASI or PMO. It is assumed that this may be documented in the Project Management Plan, which has not yet been delivered to DHS. 12/6/18: Rated Low by the analyst due to only one Decision in play at this point in time.</p>			

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16	Lack of clear understanding of SI DDI approach may reduce effectiveness of JARs and JADs	Finding - Risk	12/17/2018	Configuration and Development	Observation;# Customer Concern	Several DHS stakeholders have commented that the SI Design, Development, and Implementation (DDI) approach is unclear. While stakeholders can observe SI activity and have participated in some SI activities, they do not understand how it all fits together and some activity objectives seem unclear. The SI conducted a DDI approach overview session during an initial JAR session, however not all stakeholders were present. IV&V did not locate any DDI approach documentation or materials that could be referenced by stakeholders who may have missed to the overview session, by new members of the team, or by other interested parties.	Lack of stakeholder understanding and buy-in to the SI DDI approach and project activity objectives may reduce the effectiveness of JAR and JAD sessions as well as other BES project activities and decisions.	PCG recommends one or more of the following to mitigate this risk: • SI provide an additional DDI approach overview session for stakeholders and allow for Q&A • SI provide DDI approach documentation/materials for stakeholders to review and/or refresh their knowledge on demand; the materials could be made available via the project SharePoint • SI and DHS accelerate review, resubmission and approval of an acceptable DDI Plan DED to facilitate submission of DDI Plan deliverable • SI submit DDI Plan deliverable and make it easily available to all project stakeholders	1/31/19	4	3 High	Med	Open		3/27/19 - IV&V has no material update for the March report. The ASI presented and submitted the draft DDI Plan on 3/27/2019. IV&V will review and analyze the DDI Plan and provide a more detailed update in the April report. 2/27/19: The ASI has included some high-level information in recent Process Improvement Plan (PIP) sessions with DHS leadership to help clarify their DD&I approach and methodology. The high-level representation of the DD&I approach lacked sufficient details to fully evaluate. JAD packets also include some of this information, but more comprehensive documentation has yet to be made available. The ASI intends to include further details in the DDI Plan (BI-06) that has yet to be delivered. 1/31/19: There remains some confusion over what the ASI has agreed to do to increase understanding of the overall ASI DDI approach for DHS leadership and JAD participants. The ASI produced a DDI Plan (BI-06) DED and received feedback/comments. Their response to the deliverable comment form (DCF) comments has not yet been provided to DHS.	1/7/19: Note. During the 01-02-18 [sic] status meeting, DHS did not decline the offer and made suggestions. To my understanding, Unisys offered to present the orientation during each JAD session. It was suggested by DHS that the pre-JAD packet be placed in the SharePoint project site. For new participants in the JADs, a separate orientation before the JAD should be held for those new participants.	1/3/19 - Unisys (Bill Thornton) reports that they offered to provide the approach materials in the pre-JAD package and conduct an overview prior to each JAD session, however, DHS has declined this offer.	
17	The Project may experience the situation where several deliverables may be presented to DHS for review and approval within a short period of time, which may cause schedule delays.	Finding - Risk	1/16/2019	Project Management	Observation	The lack of a deliverable review process, delays occurring in the DED review and approval process and final approved DED's may result in the ASI to submitting multiple deliverables for review/approval at the same time or within a short time frame. Following the early identification of this risk, DHS, ASI and IV&V met to gain a better understanding of revised deliverable schedule. The ASI has not published an updated schedule (as of the end of January), therefore it is unknown at this point when the project deliverables will be available for review.	An unusually high number of deliverables submitted for review in the same general time frame may be more than available State staff are able to process in desired review cycle times. This will in turn cause new delays in approvals of the submitted deliverables; increasing the risk for negative project schedule impact.	Options to mitigate the risk include: * Prioritizing the deliverables to identify those that should be reviewed first based on the criteria of schedule impact and/or cross-deliverable integration; * Review of interim drafts; * Addition of DHS resources to review/approve deliverables; * Addition of DHS review time for the larger deliverables; and/or * Adopt an option of 'conditional' approval with specific criteria that must be met to achieve final approval.	Unknown at this time	4	5 High	Med	Open		03/31/2019 - A draft version of the schedule was presented and delivered on 3/27/2019, however IV&V would like to review and analyze the schedule before taking any further action on this finding, and anticipates having a more detailed update in the April report. 02/28/2019 - Progress was made this month in that DHS developed, and the Project Team adopted, a deliverable review and approval process. The ASI has not yet published the revised project schedule. It is noted many of the DED's are now approved, however the downstream impact will not be known until the revised schedule is published. 01/31/2019 - The ASI has not published the revised schedule yet. We will continue to monitor this risk.			
18	Failure to identify project issues (i.e., follow-up/research activities) may result in the development of the application that does not meet the Project goals, objectives and requirements.	Concern	2/27/2019	Project Management	Observation	IVV is concerned that there are few issues raised by the project team. IVV understands the Issue Management process was only recently approved and are in the early stages of identifying and managing issues; and that JAD sessions are on hold until the PIP is completed. However, requirement research to include DHS/MQD/BES discussions and research of the KOLEA should continue. In Project meetings, DHS has asked the ASI team to research KOLEA, and BES has offered to assist the ASI on multiple occasions. Issues are a proven method to manage tasks/activities that are in question and work to a common resolution between DHS and the project team. At this phase of the project, it is typical for there to be many issues raised by the project team as requirements are researched and discussed with the users (DHS	The absence of any recorded issues could lead to a situation where the end solution does not meet the business needs or intent of the requirements in some or multiple areas. The sooner issues are identified and resolved by the project team, the less potential for the impact to the project.	The DHS and ASI leadership team should encourage the project team to identify and document issues so that they are resolved timely with the appropriate staff. Reinforce the concept that the Issue Management process is positive and healthy for the overall success of the project.	Requirement Phase Concludes	3	3 Medium	Med	Open		03/31/2019; DHS, Unisys and IVV met to review the process to manage action/research items and decisions during the Requirement Workgroup and JAD sessions on 3/25/2019. Action items will be maintained in each of Requirement Workgroup and JAD sessions Meeting Minutes. Decisions will be logged in the Project Decision Log to provide an audit trail of decisions. Round Table sessions are planned for those requirements that cross Workgroup/JAD teams and escalated items will be tracked and managed via the projects Risk/Issue Management Process. Unisys made recent updates to the process and IVV will review the Round Table Process. IVV will continue to research the updated processes and monitor the tracking of the Action/Research Items, Decisions and Round Table sessions. 03/06/2019; The DHS PMO noted that the subject follow-up/research activity items are understood to be buried in JAD notes. There may not be any action on these items given that JADs are presently on hold. IV&V will seek additional information on how these items are catalogued.			

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19	The lack of an approved, baselined project schedule obscures the ability of stakeholders to accurately measure project progress and/or impacts to the schedule.	Finding - Issue	2/28/2019	Project Management	Observation;# Customer Concern	Despite on-going efforts to establish project management processes, the project schedule baseline was neither completed by the ASI nor accepted by DHS for the majority of the March reporting period. The ASI has made assertions that delays on some tasks have affected the project timeline, however without a completed baselined schedule, transparency in this regard was obscured. The ASI has been re-structuring and baselining the schedule throughout the month of February, with a goal of delivering the revised, baselined schedule by the end of February. A baselined schedule was not delivered nor approved by the end of February, however, Gary Hirata, DHS BESSD Project Manager reported that a draft project schedule had been shown to him on February 28. In anticipation of a draft project schedule being formally delivered in early March, this IV&V has observed that the Change Management process, specifically the Change Request decision process, has been inordinately slow, and certainly slower than needed for the project. The same Change Requests have been outstanding for several months, without final approval or denial. These include Liferay to Adobe; One Siebel Instance; Review Updated BPR Manual; and IDM Migration. This finding is entered as a concern with further observation and discovery to be conducted by IVV.	Without a baselined schedule, project team members are unaware when tasks and activities are due to be completed, and it is nearly impossible to fully understand the impact of delayed tasks. Without an realistic, approved baselined project schedule, the project is likely to miss deadlines without knowing the overall impact to the project.	IV&V recommends that the completed Schedule be utilized as both a guide and a communication vehicle on a weekly basis by all project participants, to ensure that all needed tasks and activities are executed in accordance with the detailed dates within the plan, with adherence to the Schedule Management Plan. The Schedule should be used to provide information on what tasks and activities are in-flight, their status, key resources involved, and downstream dependencies, and should be reported out to DHS weekly.	Immediately	5	4	High	High	Open		3/26/2019: IV&V has no material update on this issue for the March report. A draft copy of the schedule was presented and delivered on 3/27/19. IV&V would like to review and analyze the schedule before taking any further action on this finding. 3/11/2019: This has been re-prioritized as an Issue. The lack of an approved, baselined schedule is currently impeding transparency into schedule impacts due to CRs and other project events. The project schedule was promised to be delivered at the beginning of February, then moved to the end of February, and now in the last half of March. IV&V acknowledges that Unisys is currently working to complete the project schedule.		
20	The Change Request decision process is inordinately slow, which may delay the project schedule	Concern	2/28/2019	Project Management	Observation	The same Change Requests have been outstanding for several months, without final approval or denial. These include Liferay to Adobe; One Siebel Instance; Review Updated BPR Manual; and IDM Migration. This finding is entered as a concern with further observation and discovery to be conducted by IVV.	Change Management is a process that requires some level of expediency. Delays in decisions regarding Change Requests can negatively affect the project schedule.	IV&V recommends that the project determines acceptable durations for each step of the Change Management process, in order to ensure that they are fully evaluated and adjudicated on a predictable and timely basis.	Q2 2019	3	3	Medium	Med	Open		3/26/19: No change. The process is slow for the reasons stated by DHS below. IV&V will continue to monitor this concern and CRs as they come in. 3/6/2019: The DHS PMO noted that the CRs to date have been fairly large, and there have been many questions about the ROM and Project Impact Assessments (PIA) given. The decision process in these situations needs to be deliberate and careful to assure Hawaii funds are expended properly. IV&V will investigate further, and make recommendations for target timeframes or other process improvements.		
21	The ASI (Unisys) PMO Lead and Data Conversion Lead roles are held by a single staff member, which may cause the Project to suffer due to staff over-allocation and competing priorities.	Concern	2/28/2019	Project Management	Observation	One ASI staff member holds two positions on the team, including PMO Lead and Data Conversion Lead. Due to the attention required in each of the roles, these two roles are better resourced as individual, full time staff members. This finding is entered as a concern with further observation and discovery to be conducted by IV&V.	If the single staff member holding both positions runs into unexpected challenges for either role, both workstreams may end up suffering from lack of resource attention. Both positions and workstreams are very important to the success of the project effort.	IVV recommend that the PMO Lead position and the Data Conversion Lead position are both resourced at full time levels.	Q2 2019	2	2	Low	Low	Retired	3/13/2019	3/13/19: Unisys introduced Vic Dudoit as the new PMO Lead for the project. The addition of Mr. Dudoit alleviates the concern, which is now retired.		3/13/19 Bill Thornton, Unisys: ASI agrees with this recommendation and has added an additional full time, dedicated resource for the PMO Lead position.