

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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March 15, 2023

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-Second State Legislature State Capitol, Room 409 Honolulu, Hawaii 96813 The Honorable Scott K. Saiki Speaker and Members of the House of Representatives Thirty-Second State Legislature State Capitol, Room 431 Honolulu, Hawai'i 96813

Aloha Senate 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 report the Office of Enterprise Technology Services received for the State of Hawai'i, 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 (Mar 15, 2023 16:16 HST)

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)



Hawaii Department of Human Services Systems Modernization Project

Final IV&V Status Report for Reporting Period: February 1 – 28, 2023

Submitted: March 14, 2023



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
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Executive Summary



This is the first full month of performance for the new ASI since the January 17th project restart and the pace of the BES Project has noticeably increased. Two significant items to highlight:

- After 29 months of not having an approved BES Project schedule, DHS and the new ASI achieved a significant milestone
 by gaining joint approval of the BES Project Schedule, which was baselined on February 15, 2023. The project team now
 has visibility into schedule deviations and the ability to mitigate schedule delays. This positive news is combined with the
 approved list of deliverables the new ASI will provide.
- The new ASI held two project meetings to further detail the Agile approach to the design and development of the BES application. DHS concerns about the lack of design meetings and reduced involvement of DHS Subject Matter Experts (SMEs) were addressed by the new ASI. The Agile approach involves more independent planning and preparation by the new ASI team, with impromptu one-on-one discussions to clarify specific items with DHS. This approach is expected to allow the new ASI to gather DHS input efficiently, without over-reliance on DHS resources as seen previously on the Project.

Considering the positive progress being made on the BES Project, IV&V has retired two findings in this reporting period and lowered the criticality rating for several others.

Dec	Jan	Feb	Category	IV&V Observations
Н	H	M	Project Management	An overall project schedule was approved by DHS and baselined. The weekly project status meeting has been streamlined, efficiently providing visibility to stakeholders on overall project progress.

Executive Summary

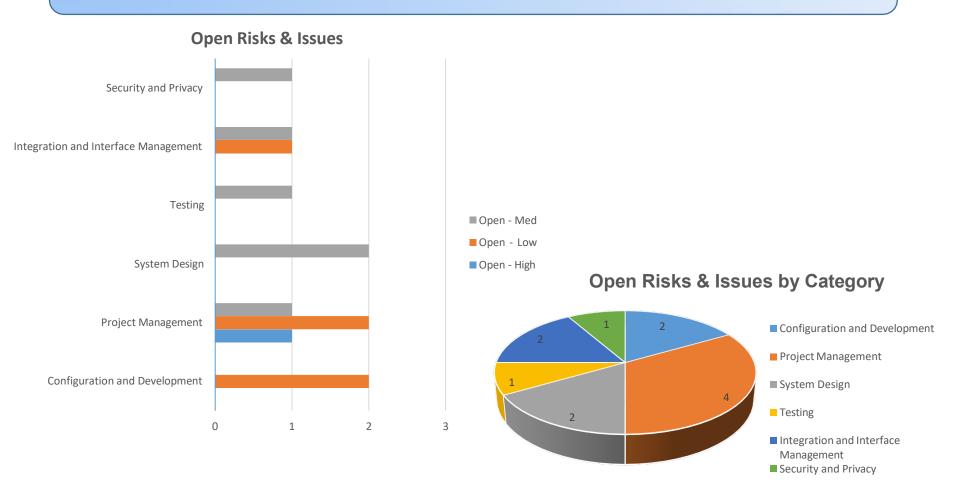


Dec	Jan	Feb	Category	IV&V Observations
M	M	M	System Design	The ASI continued to lead design sessions, including focused SME discussions, internal ASI pre-design discussions, and reviews of planned Epic design with the expanded DHS team.
M	M	L	Configuration and Development	The ASI published a schedule for System Design, Development, and Implementation (DDI) work, which is included in the overall project schedule (BI-5) to track cross-project dependencies.
M	M	M	Integration and Interface Management	The ASI started work on a Dashboard to provide the status of the remaining work with interface partners, which will be available for viewing in Confluence.
M	M	M	Testing	The DHS testing lead was determined this month. The ASI continued research for an ADA compliance tool.
H H Security and Privacy for BI-13 System Security Plan has been pushed out from March, recognizing		Weekly security touchpoints meetings started in February. Additionally, the completion date for BI-13 System Security Plan has been pushed out from March, recognizing the amount of work to still be completed. The ASI has not published a new completion date.		



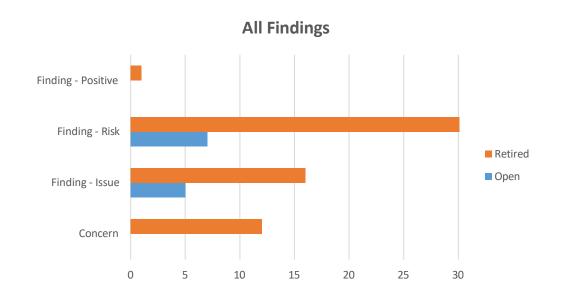


As of the February 2023 reporting period, PCG is tracking 12 open findings (7 risks, 5 issues) and has retired a total of 63 findings. All these findings were opened during the tenure of the prior ASI. Of the 12 open findings, 1 is a High criticality rating, 6 are Medium, and 5 are Low.





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





Findings Retired During the Reporting Period

#	Finding	Category
	Issue – Poor quality project deliverables may impact system design, testing artifacts, and the project schedule.	
49	Due to the length of time this finding has been at a low priority, and no evidence of the new ASI delivering poor quality deliverables, IV&V is retiring this finding. IV&V will continue to monitor and review project deliverables, verifying there is no deprecation in quality.	Project Management
	Issue - Late delivery of project deliverables has caused schedule delays.	
2	Under the new ASI, the Project adopted new review processes to develop and approve project deliverables. The Project also baselined a schedule approved by DHS. The original finding has been overcome by events and there is no indication that existing deliverables are late. Therefore, IV&V retired this finding.	Project Management



Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
	None	



Findings Opened During the Reporting Period

#	Finding	Category
	None	



#	Key Findings	Criticality Rating
	Issue – Uncertainty and/or a lack of communication around long-term architecture decisions could impact the project budget, schedule, system design, and planning decisions.	
29	The ASI has sought to clarify the scope of BES 2023 in the recent Agile training sessions. Some uncertainty remains around the use of ServiceNow (SN) and the tools that will be utilized for electronic Governance, Risk, and Compliance (eGRC).	L

Recommendations		
 The ASI continue to update the BI-12 System Architecture Deliverable with additional details as they become available and with any finalized architectural changes. 	In process	
 DHS continue to request ASI perform due diligence in any recommendation for foundational architecture change decisions and continue to review with appropriate DHS stakeholders to assure a common understanding of the implications of these decisions. 	In process	
The Project should continue to ensure communication between development leads and architecture leads to assure optimal collaboration on possible architecture changes that could impact decisions in each area.	In process	



#	Key Findings	Criticality Rating
43	Issue – DHS PMO project team members have transitioned off the Project, which may cause gaps in knowledge transfer and leadership on the Project.	Н
	DHS continues to recruit for PMO positions. Although DHS has received applications, the recent applicants have not been selected for interviews.	

Recommendations	
DHS continue to work with the appropriate organizations to identify the funds necessary to fill these positions.	In process
 DHS consider other options (Contractors, State employees borrowed from other agencies) to fill these positions if there is ongoing difficulty in finding permanent hires. 	In process



#	Key Findings	Criticality Rating
	Risk – A BES Project schedule based on inaccurate estimations diminishes effective planning and resource management, which could result in late deliverables, cost increases, and a late go-live.	
74	The BES Project schedule was approved on 2/15/23 and its development included DHS and ASI input to estimate the remaining work. Therefore, IV&V changed the criticality rating from high to medium.	M

Recommendations	Progress
Monitor, evaluate and revise scheduling estimates for accuracy.	In process
Confirm current assumption that a delay with the current go-live date will not result in major implications.	In process
DHS and the ASI agree to a revised schedule against which project deliverables can be managed.	Completed



#	Key Findings	Criticality Rating
	Risk – Volunteer DHS resources leaving the Project may lead to schedule delays, lower morale, and burnout.	
76	With DHS resource requirements reduced by the new ASI's DDI process, IV&V lowered the criticality rating of this finding from medium to low. IV&V will continue to monitor, verifying that all DHS resources required by the Project are being met.	

Recommendations	Progress
 Carefully plan for all project activities with reasonable hour allocations for the DHS resources and adjust dates in the BES Project schedule accordingly. 	In process
Add cushion time to the schedule for unexpected project delays.	Not started
 Provide incentives for the DHS resources to help maintain the project team and possibly alleviate attrition or increase the number of volunteers to the team. 	In process



Integration and Interface Management

	#	Key Findings	Criticality Rating
	22	Risk – The lack of early planning and coordination with interface partners may result in schedule delays.	L
63	၀၁	The new ASI is reviewing all the BES interfaces and is building a Confluence dashboard to track and progress and status of each interface.	

Recommendations	
Complete all MOAs and obtain approval.	In process
Confirm testing dates with interface partners in writing.	In process
 Complete early proof of concept interfaces to avoid unexpected delays due to external organization miscommunications or their own internal delays in assisting the BES project. 	Not started



Integration and Interface Management

#	Key Findings	Criticality Rating
79	Issue – External vendor delays in the development of the BES task management system interface have impacted the project schedule. The Project has upcoming designs (Epic 104) that involve the BES task management system. The new ASI has engaged DHS to meet with the task management system vendor.	M

F	ecommendations	Progress
•	The ASI re-establish regular collaboration meetings with C!A to assure strong communication and brainstorm optimal solutions for BES integration with Current.	In process
•	The ASI provide test results from the task management integration to ensure that the interface works.	Not Started



Configuration and Development

#	Key Findings	Criticality Rating
70	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution. The new ASI intends to utilize ServiceNow (SN) for most configuration management tracking. Details of exactly how they'll be using SN and its multitude of modules and capabilities remain unclear.	

Recommendations	Progress
 ASI adhere to plans for configuration management as documented in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DHS. 	In process
 ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track. 	In process
 DHS and ASI work to clarify/solidify plans for the potential use of configuration management tools and DHS work to fund and procure a CM tool, as required, to avoid any negative impacts to the project. 	In process



Configuration and Development

#	Key Findings	Criticality Rating
	Risk – Development delays could negatively impact the project schedule and delay go-live.	
80	Though the Project transitioned to the new ASI, many of the development team that was subcontracted to the previous ASI remain on the Project. However, the new ASI has significantly increased their resources (now totaling 137), which may mitigate this risk. Therefore, IV&V lowered the criticality rating of this finding from medium to low. IV&V will continue to closely monitor this risk and look for evidence the added resources includes skilled developers that can drive the productivity of less experienced developers.	L

Recommendations		Progress
adding additional junior re	egically add the right project team resources to effectively increase velocity. Note that sources may not be as effective as staffing additional expert-level development, ces that can lead and mentor junior resources.	In process
	egularly provide DHS (potentially via the weekly DDI status meeting) with an accurate per day/week/month) and assure that the current velocity is accurately and e project schedule.	In process



System Design

#	Key Findings	Criticality Rating
61	Issue – Poorly executed JAD and "design sessions" could lead to inaccurate design and rework. DHS and IV&V observed the ASI is struggling to sufficiently prepare for and deliver well-facilitated design sessions. There are indications the ASI team has not thoroughly prepared for, discussed, and solutioned designs prior to client meetings. While the ASI has made progress in addressing some of the recommendations of this finding, other concerns continue. IV&V suggests the ASI team review and apply the recommendations of this finding to improve the productivity of meetings going forward.	M

Recommendations	Progress
The facilitator should use their expertise to drive discussions through leading questions.	In process
 BAs should come to Day one of Design Sprint fully prepared to facilitate discussion on topic of sprint, with adequate knowledge about business process and approach for design based on JAD/JAR notes and other pertinent material. 	In process
The ASI to bring User Experience (UE) designers to engage with DHS and review the currently built BES solution.	In process
New ASI to quickly gain lessons learned to apply to future sessions.	In process



System Design

#	Key Findings	Criticality Rating
	Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts.	
73	Though the new ASI intends to simplify the BES infrastructure, it remains unclear whether that will be possible in a timely manner and avoid impacting the critical path. The new ASI also intends to expand on the previous ASI scope of DevOps by adding more automation. While this has the potential to simplify environment management, it could also present challenges without impacting the schedule.	M

Recommendations	
 ASI clearly communicates the potential costs and schedule impacts to implementing the planned infrastructure. The architecture process should include steps to provide a detailed impact of DHS architectural decisions including the integration activities, support required, and maintenance and operations impacts. 	In process
 DHS work with the ASI to assess the potential challenges of maintaining a complex environment and consider scaled-back options that could reduce this risk and reduce long-term maintenance challenges and costs. 	In process
 ASI develop a process to closely monitor cloud and other product changes (software updates/new releases), manage changes, and regression test once updates are applied. 	In process
 The project team work to establish strong governance over the utilization and maintenance of various components to simplify their use and monitoring. 	Not started
 ASI development team identify infrastructure components and techniques that are new to them and take action to assure potential integration problems do not lead to unexpected delays. 	Not started
 Request the ASI maintain a detailed schedule for DevOps implementation tasks to avoid unexpected delays that could delay project milestones and the critical path. 	Not started



Testing

#	Key Findings	Criticality Rating
	Risk - The Americans With Disabilities Act (ADA) Section 508 compliance tool has not been installed for the Project, which may cause significant rework.	
67	The Project is evaluating different ADA compliance tools. DHS currently uses Site Improve in other areas and the ASI is reviewing its feasibility for this project. The ASI requested access to the Site Improve tool for a Proof of Concept (POC) Additionally, the ASI previously evaluated Usability.net and will use it if the Site Improve POC is unsuccessful.	M

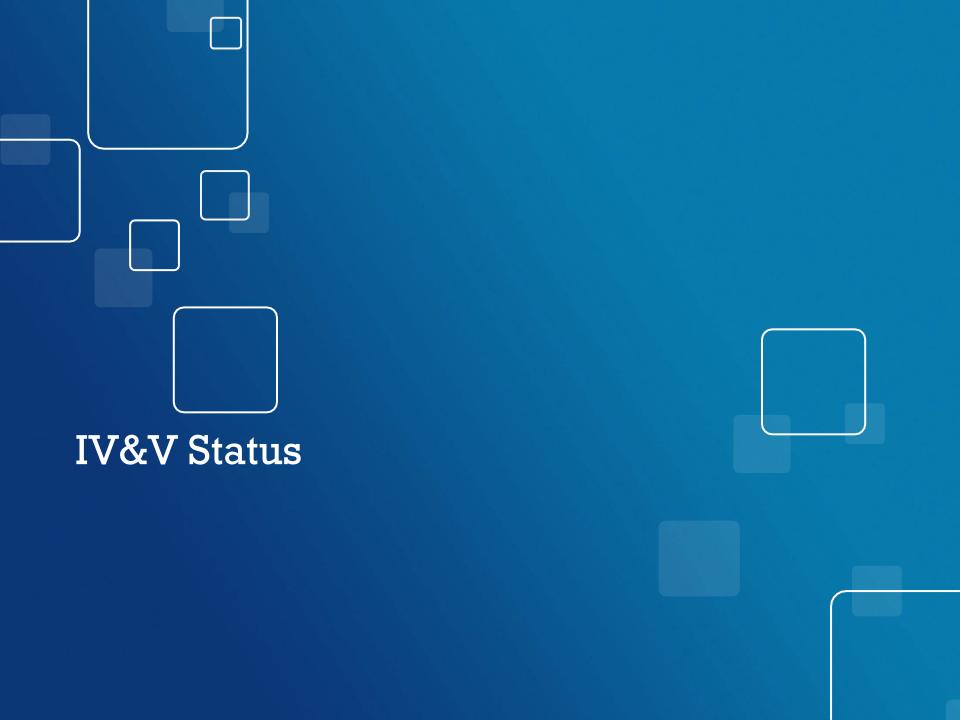
Recommendations		
The ADA tool meets contractual and project requirements.	In process	
The ASI communicates a plan for ADA test execution.	In process	
The ASI communicates how the tool will be used to report compliance and non-compliance and how non-compliance will be addressed/corrected	In process	
 The ASI communicates how and when DHS/IV&V will be provided the reports from the ADA tool execution and how to interpret the results. 	In process	



Security and Privacy

#	Key Findings	Criticality Rating
	Risk - Incomplete implementation statements in the BES Security Plan activities may lead to delays in gaining Federal Partner approval for the BES Project to begin the Pilot Phase.	
68	The new ASI began weekly status meetings with the security stakeholders in February The ASI presented and clearly articulated an approach to developing the System Security Plan (SSP). This includes the selection of the controls for the SSP consistent with NIST 800-53 guidance. At the end of February, the ASI and DHS began the controls selection process for a NIST 800-53 moderate SSP. Additionally, the ASI and DHS have begun to discuss the selection of an eGRC system. After reviewing the Service Now GRC module as an option, it appears to be cost-prohibitive. The ASI continues to look at options for a GRC system while continuing to use Aha as a repository for the SSP. Based on the status of security activities IV&V lowered the criticality rating to Medium.	M

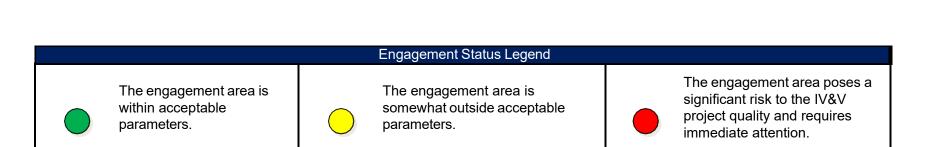
Recommendations		
The ASI continues to develop the BI-13 Security Plan in close collaboration with DHS.	In process	
 DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, such as security governance, risk, and control (GRC software). The process should define the level of detail needed to track progress (estimates, target dates, risks, issues, evidence) along with the Requirement Traceability Matrix, and plans of actions and milestones (POAM). 	In process	
 ASI ensure that the ASI Security Lead has a depth of experience in NIST 800-53 and experience authoring implementation statements of System Security Plans (SSP). 	Completed	
• DHS review the proposed staff resume, interview individual, and approve resource to ensure that they meet the position's contractual requirements.	Completed	



IV&V Engagement Status



IV&V Engagement Area	Dec	Jan	Feb	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final January IV&V Monthly Status Report.
IV&V Staffing				
IV&V Scope				



IV&V Activities



- IV&V activities in the February reporting period:
 - Completed January Monthly Status Report
 - Ongoing Review the BES Project Artifacts and Deliverables
 - Ongoing Attend BES Project meetings, (see <u>Additional Inputs</u> pages for details)
 - Reviewed available ASI Original Contract and BES Optimization contract amendment documentation
- Planned IV&V activities for the March reporting period:
 - Ongoing Observe BES Design and Development sessions as scheduled
 - Ongoing Observe Weekly Project Status meetings
 - Ongoing Observe Weekly Architecture meetings
 - Ongoing Observe Weekly Security meetings
 - Ongoing Monthly IV&V findings meetings with the ASI
 - Ongoing Monthly IV&V Draft Report Review with DHS, ETS and ASI
 - Ongoing Participate in Bi-Weekly DHS and IV&V Touch Base meetings
 - Ongoing Review BES artifacts and deliverables

Deliverables Reviewed



Deliverable Name	Deliverable Date	Version
BI-5 DDI Project Schedule DRAFT.mpp	02/062023	Draft
BI-19 Complete and Final Test Plan.docx	02/28/2023	V2.0

<u>Additional Inputs – Artifacts</u>



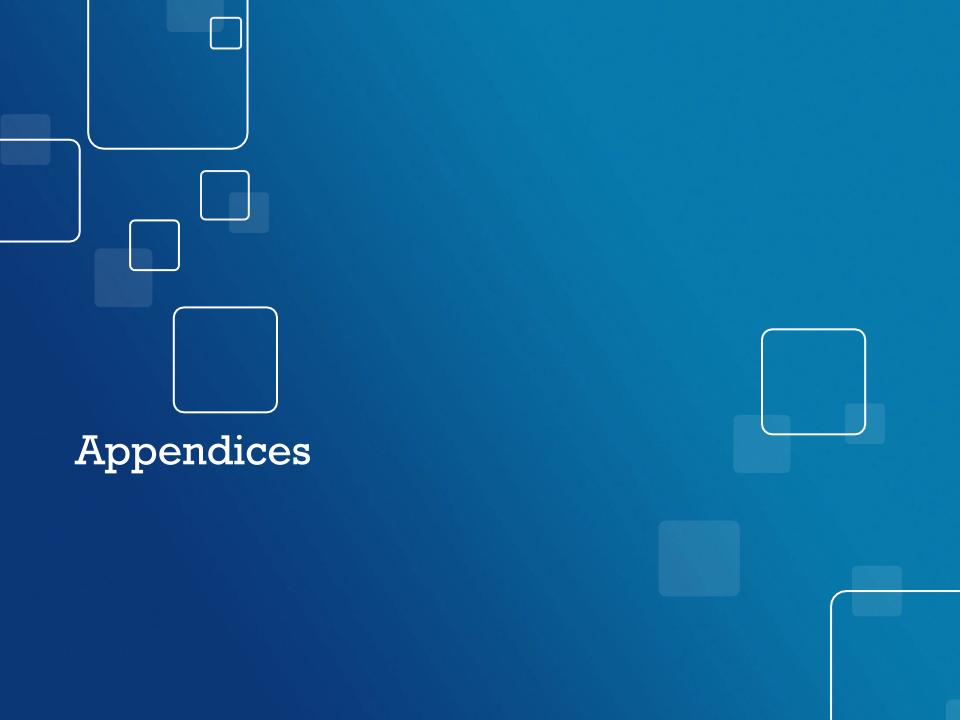
Artifact Name	Artifact Date	Version
Unisys Contract Amendment 3	4/17/2020	N/A
Unisys Contract Amendment 4	5/1/2021	N/A
FNS Handbook 901	01/2020	V2.4
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	12/20/2020	Rev.5
One RTM (Aha)	N/A	V1
BES DDI Post-transition 11-16-2022 draft	11-16-2022	N/A
BES 2023 New Way Forward	11-29-2022	N/A
BES 2023 Implementation, Appendix – Plan Approach Details	11/29/2022	N/A
BES 2023 Implementation Planning – Confluence page	N/A	N/A
BI-1 BES 2023 Client Project Kickoff Presentation	1/13/2023	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. Weekly Platform Status Meeting 2/7/2023, 2/14/2023, 2/21/2023
- 2. IV&V Team Meeting 2/2/2023, 2/3/2023, 2/6/2023, 2/9/2023, 2/13/2023, 2/16/2023, 2/21/2023, 2/23/2023, 2/27/2023
- 3. HI DHS BES December Draft IV&V Report Review 2/13/2023
- 4. IV&V December Findings Roast 2/27/2023
- 5. Bi-Weekly DHS and IV&V Touch Base Meeting 2/7/2023, 2/21/2023
- 6. Weekly BES Infrastructure meeting 2/3/2023, 2/10/2023, 2/17/2023, 2/24/2023
- 7. DHS/IV&V Check-in 2/9/2023, 2/23/2023
- 8. Weekly Client BES 2023 Project Status Meeting 2/1/2023, 2/8/2023, 2/15/2023, 2/22/2023
- 9. PMO End of Day Huddle 2/1/2023, 2/2/2023, 2/7/2023, 2/8/2023, 2/9/2023, 2/14/2023, 2/16/2023, 2/21/2023, 2/22/2023, 2/23/2023
- 10. Epic 123 Client Management, Demographics, Citizenship Planning Meeting 2/1/2023, 2/2/2023, 2/15/2023
- 11. BES 2023 Project Epic Listing Review Meeting 2/2/2023, 2/16/2023, 2/22/2023
- 12. Security Touchpoint 2/2/2023, 2/9/2023, 2/16/2023, 2/23/2023
- 13. BES 2023 Project BI-21 Updated and Completed Functional and Technical Requirements Traceability Matrix DED Discussion Meeting 2/3/2023
- 14. BI-06 DDI Plan Addendum Response Review Meeting 2/7/2023, 2/13/2023
- 15. BES 2023 Project BI-5 Project Schedule Response/Update Review Meeting 2/10/2023
- 16. BES 2023 Project Agile Approach Meeting 2/15/2023, 2/24/2023
- 17. BES-SSP Portal Discussion 2/16/2023
- 18. February Mid-Month ASI/IV&V Findings Review 2/17/2023
- 19. BES Security Controls tailoring PE family 2/21/2023
- 20. Epic 105: Application Registration and Case Creation 2/21/2023
- 21. Epic 238: Clarification on FM23a's Waiving/Terminating Claim Functionality 2/23/2023
- 22. BES Security Controls tailoring PL Family 2/24/2023
- 23. Epic 124: Communication Management 2/24/2023
- 24. Expedited Eligibility and Reporting Discussion 2/27/2023
- 25. IV&V Findings Changes for February 2/28/2023





Appendix A – IV&V Criticality Ratings

Criticality Rating	Definition
Н	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® Technical Assessment 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

Ending Slide



Solutions that Matter

Finding	Identified				Event Horizon		Analyst Fi	inding tatus	Status Update	
Development delays could regotively impact Fors, Michael Finding the project schedule and delay go live. Risk	6/80/2022 Configuration and Condigeration and Co	ASI had previously reported development activities have been showed at they have been numbered as they have been numbered as called an experience of the phase been numbered development test must challenged development test must challenged development test must challenged development test must challenged development and the project should defend a project sometiment of the project should defend a coursely reflects realistic timelense (see finding 174). The ASI continues to be challenged with finding qualified recourses in a timely marker.	milestones, schedule delays may lead to a delayed system go-live date. Fallure to achieve a level of accuracy in estimating development tasks could lead to a project schedule that is flawed and unrealistic. Previously, DHS	resources. • ASI effectively track and regularly provide DHS (potentially via the weekly DDI status meeting) with an accurate velocity (e.g., story points	immedate	3 11	O _l		2/32/2023 . Though the Project transitioned to the new ASI, many of the development team that was subcontracted to the previous ASI remains on the Project. I was was chost particular the previous ASI remains on the Project. I was was a blood particular the previous ASI remains on the Project. I was was a first a significantly increased their was a first and the project of the Project. I was a first a first finding from remains to low. We will continue to closely monitor their initial and look for evidence the added resources included satisfied developers that can find the productively either any other projects of the project of	
79 Extraval worker delays, in the devolutionnent Reproduct, Finding of the EST state management or hypothem. Mark librar interficie have impacted the project schoolde.	4/N/2022 Integration and integ	Human Service (IPNs) uses the Current system to manage and created cases. The elements tigskillary Solicine (IRS) will interfer case with the candidated state. The elements tigskillary Solicine (IRS) will enter for case the case of th		Current. The ASI-provide text results from the bask management integration to ensure that the interface works.		5 11	Wed O	lpen	a reneal conduction is available the actual number of additional resources (2027/2027). The Propriet paragraph of the prop	
76 Volunteer CHS resources leaving the Project Molina, Brad Rending- may land to Scholded estays, lowered Molina microlle, and fourmout.	3/I/2022 Project Management	volunteers except one. Resources are not in dedicated roles within the team	The replacement of DRF resources in project roles (e.g., testers and product owners) is not grammed and the St inselvated that no additional resources will be assigned to the test testen. It is a risk to the Project that the state of the project of the test testen, this a risk to the Project that the control of the Project of the Proj	allocations for the DHS resources and adjust dates in the BES Project schedule accordingly. Add cushion time to the schedule for unexpected project delays Provide incentives for the DHS resources to help maintain the project team and possibly alleviate attrition or increase the number of	irrrocdate	3 11	ow O		27/2/2023. With Dist resource requirements reduced by the new Art's COI process, NIV lowered the circular straige of the Mind groon medium to be. N' visit continued to mother, we will continue to mother, we will reduce the continued to be reduced to the continued to mother, we will continue to mother, we will reduce the continued to continue to mother, we will reduce the continued to proceed the continued to the continued to the continued to the continued to the cont	
24 The lack of a BES-Projects-Chedide based on Molina, Braid Feeding- accurate continuous deministrice effective braining and resource management, which could results his activerables, cost terrosers, and a late gir-lye.	11/29/2021 Project Management	Dist and the ASI have tried multiple times to rework the schedule with results that have not jedded improvement, Concerns with the farther, estimating practices, and ability to manage to the schedule persist. The use Previous have forming schedule control to the schedule component is not previous have forming schedule capacity children and previous have forming schedule capacity children and previous have forming schedule capacity and previous have forming schedule capacity and previous have formed according to previous have f	if estimates for project schedule achieties are not accurate, this can lead to constant schedule region, resources not being available when needed, nuclead activities, and general frustration which can lead to schedule delays, towe quality output, scope changes, and budget source.	Confirm current assumption that a delay with the current go-live date will	immedate	4 2 !	vied O	open .	2/23/2023 - The BEST Project schedules was approved on 2/23/23 and its development included by the Adl Signato to emission the remaining work. Therefore, NY, Ohanged he critically a rating from high to medium. The control of the Co	

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	nding Identified		* **		Event Horizon Impact	Analyst	Finding		
73 The planned BES infrastructure is complex. Fors, Michael Fisch which could be difficult to implement and lead to schedule/cost impacts. R&		Current AS linfestructure plans include a significant number of sophisticated compress that make up a complex cloud infrastructure. Further, the Project team has yet to finding component that will make up the plans of the plans of complex environment remain unclear.	maintenance and operations, challenges as system changes can hold the increased potential for system failure (a. d. to the significant number of "moving part") and increases the level of time and effort for sooke the contract of the contr	implement and maintain the planment Infrastructure. The architecture process should include they story provide a detailed impact of Difficulty architectural decisions including the integration activities, support required architectural decisions including the integration activities, support required architectural decision including and integration activities, support required activities and activities of the potential challenges of intraintaining challenges and costs. 4-83 devided a process to closely monitor cloud and other product changes (software updates) from reference and costs. 4-83 devided as a prospect or closely monitor cloud and other product changes (software updates are applied **) manages changes, and regression test care updates are applied ** unamages changes, and regression test color updates are applied ** unamages changes, and regression test color updates are applied ** under a support of the support of	Not several month	3 3 Med	Open T	2/28/2021. Though the new ASI intends to simplify the BES infrastructure, in remains unclear whether that will be possible as insidery manner and ascel impacting the critical path. Thene ASI also intends to separate on the control of the control path. Thene ASI also intends to separate on the control path. The manner of the control path of the	
70 Insufficient configuration management for Tors, Michael Frict conditional of development control used to development control used a reduce the effectiveness of defect resolution. Risk	Development	projects Security Filin has yet to be finalized which may include additional requirements of income that could improve CLC. The project currently relies on Global for tracting of some configurations.	ensures the BES is understood and works correctly. The BES solution includes took that may provide a level of automation for Configuration Management that may reduce errors and should provide the project team that the provides of the prov	management tools and first work to fund and procure a CM Tool, as required, to and any engotive impacts to the project COMPHETD + identify the CMPS FOC for the Configuration Management Activities that closely the CMPS FOC for the Configuration Management Activities that control of the CMPS FOC for CMP		2 2 tow	Open	2/28/2021. The new AS Intends to sulfules devications (PSI) for most configuration management tracing. Details of each year when I/V be using SN and its multimate of modules and capabilities remain unclear. If I/V because SN and its multimate of modules and capabilities remain unclear. IV/I/V because SN and I/V beca	9/9/2021 - RAP. We look forward to wind the look forward to wind the look forward to the look forward to look
(B) Incomplete implementation statements in the BES Symmetry sector plant part of the State of delays in gaining Federal Partner approval for the BES Project to begin the Pilot Phase.	ng - 7/ZB/2021 Security and Philosop	Over the last several months, the BES project team has been working through the planning efforts to devolop the ELS Security Plan while also managing through AS Security least staffing changes. DRS and the ASS may be a several to the security of the ASS	The BLS project must have a clear plan to define, implement, text, and validated all-Security Ambrings Registerines (Cortesting Fiber Centering the Pilot phase. These are many subdanted that must be met, and the project plan of the project plan o	collaboration with DHS DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, such as security governance, risk, and control (GRC software). The process should define the level of detail needed to track progress (estimates, target	ASSP	3 3 Med	Open	2/27/2021. The new AS to legan weekly status meetings for the security schalaridedism is finding may make AS to legan weekly status meetings from the security schalaridedism is finding may make AS to exclude the selection approach to developing the System Security Man. This includes the selection special schalarided in the Security AS to the Security S	9/8/2021 - RAP. The decision to move to decision to move to decision to move to the confidence of the security plan per Dist. The ASI is a many per Dist. The ASI is a many per Dist. The ASI is a many planning the effort to make these updates. The effort required to complete this work with the CPC of the CPC
97 The American With Dischallers Act (MAX) Tan, Ryan Fice Section 501 Compliant to that have been final field of the Project, which may cause agentic and rework.	ng - 7/11/2021 Yesing	tool installed and that Section 508 compliance testing has not been performed. This risk has been discussed with the ASI over the past several months, but there have been evidence of results to date. The ASI did state	The visit of the control of the cont	2/31/2021. The bidising recommendations will be relatated for the finding. The Abit Abit orders contractant and project responsements. The ASI communications are to be offered to the continuous communication and the best will be used for report compliance and non-compliance and how non-compliance will be addressed/corrected. The ASI communication how and widen PORE/NY to the provide the report of the PORE NY CONTRACT TO THE PORT OF TH	As soon as possible	3 3 Med	Open	prior to the week stoppage, (IV) has no material updates to report this 27/2/2021. The Prop Cert coulding offerent of All Compliants footil, 156 for 156 for 27/2/2021. The Prop Cert coulding offerent of All Compliants footil, 156 feet and	9/8/21 - RAP. The RSI has inved the rVBV to make contact with the development team to review the results of review the rVBV has not contacted the development last do the review that th

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_	Tal.	Fir	iding Identified	. Observator	C-W	2	Event Horizon Impact	Analyst t Probability Priority	Finding	Status Uodate Client Comments	Vendor Comments
63	The lack of early planning and coordination	Reynolds. Findi	ng - 1/21/2021 Intes	tion and The following planning and execution items have not yet been addresses	DDI project often underestimate the time needed to effectively manage all	OPEN 5. Complete all MOAs and obtain formal approvals. 6. Confirm	042021	4 1 Low	Open	02/28/2023 - The new ASI is reviewing all the BES interfaces and is building	Vendor commend
	with interface partners may result in	Mark Risk	Inter	e and documented by the ASI Connectivity is planned to utilize a present	the tasks and activities to successfully implement data sharing. A clearly	testing dates with interface partners in writing. 7. Complete early proof o	of			a Confluence dashboard to track and progress and status of each interface	
	schedule delays.		Man	ement undefined ETS API Gateway; however, there is no evidence that details ha	e defined communication plan and schedule that includes the coordination,	concept interfaces to avoid unexpected delays due to external organization				01/31/2023 - Activity in the reporting period concentrated on project restart tasks, and IVV will reassess this finding once related project activity	7/20/21 RAP - The ASI
				been determined or documented in this regard. There is little evidence active and sufficient communication with interface partners for	 planning, and execution activities along with milestone dates can minimize the risk of potential delays. In addition, after planning has been completed, 	miscommunications or their own internal delays in assisting the BES project. COMPLETE 1. Establish a communication plan for each interface partner for				restart tasks, and IVV will reassess this finding once related project activity has begun. 12/31/2022 - No material update in the reporting period as the	team requests that the IV&V reassess the
				coordination, design, and testing activities (Unit Test, SIT, UAT) Interface	interface partners will have to be available during interface implementation	the duration of the BES DDI activities. COMPLETED 10/29 2. Identify and				work stoppage continued and the new ASI conducted restart planning. IVV	severity of this risk in
				planning and execution tasks and activities, including those for interface	to ensure that the interfaces are properly developed and tested before	document all interface partners' contacts. COMPLETED 3/31/2022 3.				will reassess this finding and our associated recommendations once more is	light of the following
				partners, are neither resident nor managed within the Project Schedule.	deploying the system to production.	Define a release schedule for each interface to include milestone dates,				known. 11/30/2022 - No material update in the reporting period as the	reasons: a) the ATC schedule extension
						coordination, and execution and share with the interface partners. COMPLETED 01/04 4. Determine which deliverable will include the details				work stoppage continues and the new ASI conducts restart planning. 10/31/22 - No work has been performed regarding this finding due to the	has made the urgency
						associated with the planned connectivity and detailed technical designs of				work stoppage and ongoing transition to the new ASI. IVV will reassess our	for tackling these tasks
						all interfaces. COMPLETED 01/04				recommendations for this finding once more is known. 09/29/22 - No	less than it was before
										material update in the reporting period. 08/26/2022 - The statuses of the three remaining required agreements (DAGS, DLIR, HYCF) have not changed.	that started lessening the schedule risk, b)
										08/01/2022 - DHS executed the DPS agreement (MOA) on 07/20/2022. The	the schedule risk, b) the increase from
										statuses of the three remaining required agreements are as follows. The DAGS agreement is moving forward with design work. DHS reviewed the	Medium to High in
										DAGS agreement is moving forward with design work: DHS reviewed the DLIR MOA and resubmitted it to DLIR. The latest draft of the HYCF was sent	May was based on a
										to the DHS Directors' office with feedback from BESSD and MQD.	misunderstanding of the current state of
										06/30/2022 - There are 4 agreements outstanding (DAGS, DLIR, DPS, and	the MOA's and contact
										HYCF). DHS plans to discuss the agreement at the next meeting with DAGS,	metrics, c) substantial
										which is tentatively scheduled for 07/06/2022. DHS is currently reviewing the DLIR, DPS, and HYCF agreements. 05/31/2022 - There were no changes	progress has made
										to the interface communication plans in this reporting period. There are 5	against each of the In Progress
										agreements outstanding (DLIR, DPS, HYCF, DAGS, and CYRCA). DPS, HYCF,	recommendations,
										and DLIR have all been drafted and are going through reviews with DHS and	and it continues to
										the interested parties. DAGS has not been drafted by DHS; DHS is in discussions with the Department of Tax for an interface that would bypass	trend in the right
61	Poorly executed JAD and design sessions	Molina, Brad Findi	ng - 11/30/2020 Syste	Design ASI-led Workflow JAD sessions have been held for CMM, with the followin	The CMM Workflow JAD sessions restarted in November. DHS indicated	OPEN - The facilitator should use their expertise to drive discussions through	h ASAP	2 5 Med	Open	2/28/2023 - DHS and IVV observed the ASI continues to struggle to	direction. In regards to
	could lead to inaccurate design and rework.	Issue		concerns being observed, - No clear introduction to all participants on the						sufficiently prepare for and deliver well-facilitated design sessions. There	
				goal of the JAD, overview on the process and the importance of their participation On many occasions the conversation needed to be driven in	Do the JAD participants understand how the Case will be managed through workflow? (2) What improvements will be made in the new BES to support	prepared to facilitate discussion on topic of sprint, with adequate knowledge about business process and approach for design based on				are indications the ASI team has not thoroughly prepared for, discussed, and solutioned designs prior to client meetings. While the ASI has made	9/9/21 RAP - The N&V
				leading questions, as expected, but was instead lead by business users	the users and clients? Incomplete or unclear JAD sessions with insufficient	JAD/JAR notes and other pertinent material The ASI to bring User				progress in addressing some of the recommendations of this finding, other	many facets of the
				Too much pause time when participants did not know the answer to a	documentation could lead to a poor design, lacking the details needed to	Experience (UE) designers to engage with DHS and review the currently built				concerns continue. IVV suggests the ASI team review and apply the recommendations of this finding, to improve the productivity of meetings	deisgn process
				question; several occasions where complete silence on the call for 30 seconds or more - Lack of thought leadership from the ASI on how	support business requirements; as well as missing opportunities to improve workflow and related system design.	BES solution New ASI to quickly gain lessons learned to apply to future				recommendations of this finding, to improve the productivity of meetings going forward. 1/31/2023 - The new ASI is in the start-up phase and as	including screen mock-
				workflow could be designed to ease/improve process for client	worknow and related system design.	sessions. Closed - JAD and design sessions should be lead by experienced senior BAs, with goals, objectives and results communicated to all				expected have experienced a few wrinkles during the initial design sessions.	up reviews, backlog grooming sessions,
						participants. (additional Senior BA being added, rest of recommendation				IVV looks for the ASI to quickly incorporate the recommendations in this	and Sprint demo's.
						being met - Closed 4/30/2022) - The DHS and ASI product owners should				finding to deliver effective design sessions, avoiding delays to design and	Product owner
						actively participate to ensure the system meets the requirements, designed				development. 12/31/2022 - The new ASI continues to develop its approach to the BES design sessions. IVV will assess this issue along with the below	discussions are meant to have limited
						taking advantage of new technology and aligns to the 'to be' business process. (Closed 4/30/2022) - The ASI should back-track significant				recommendations when the new ASI restarts the BES design sessions.	participation. The
						differences in design direction to determine the root cause to identify these				11/30/2022 - The new ASI is revising the approach to the BES design	team is concerned
						items as early in the SDLC as possible. COMPLETE - The Product Owners				sessions to improve efficiency and align with Agile methodology. TVV will	about the participation
						should have more direct interaction with the development team, proactively seeking collaboration. 10/5/21 Complete - The Functional Design	у			assess this issue along with the below recommendations when the new ASI restarts the BES design sessions. 10/31/2022 - No work has been	of the IV&V for two main reasons: 1) IV&V
						Document process, to include the Design Sprint concept, should be clearly				performed regarding this finding due to the work stoppage and ongoing	does not always stay
						defined and shared with all project team members. (Closed, 1/31/2022) -				transition to the new ASI. IVV will reassess our recommendations for this	silent in discussions on
						Invite IVV to all future design sessions and design sprints to allow IVV to				finding once more is known. 9/30/2022 - DHS Product owners and SMEs	design despite
						observe and assess the effectiveness of the revised design processes. (Closed, 1/31/2022) - ASI and DHS should work together to yet the in-				have raised concerns about a lack of a cohesive design and a user experience that is less than satisfying. DHS users are citing examples of not	assurances from the IV&V PM that it is not
						progress design with all SMEs for the area of focus. (being met by new				being able to achieve desired tasks or achieve tasks timely. 8/31/2022 - The	their role, and 2) IV&V
						design sprint process, closed 2/28/2022) - ASI staff all design sprint				ASI's addition of senior BAs to the design sessions has resulted in	participtation typically
						meetings with additional support staff to ensure the meetings are				Improvement. The Senior BAs offer guidance to ensure the project team	drives what are meant
						adequately documented and ASI Business Analyst are not running the				remains focused on the design. Unfortunately, one of the Senior BAs has left the project so it is unknown if this practice will continue for all BES	to be informal processes to more
43	DHS PMO project team members have	Molina, Brad Findi	ng - 1/10/2020 Proje	As reported in various project meetings, several key DHS PMO, BES and A	The key resources leaving the BES Project provide knowledge and history of	2/28/2022 - DHS consider other options (Contractors, State employees	ASAP	3 5 High	Open	2/28/2023 - DHS continues to recruit for PMO positions. Although DHS has 02/08/2021 - Brian Donohoe does not agree with IVV's high-criticality ratio	ng 4/23/21 RAP - From
	transitioned off the Project, which may	Issue	Man	ement project team members are planning to retire or leave the project within the	DHS and its software, solutions, and business processes, along with a level of consistency and continuity to the extended project team. This experience	borrowed from other agencies) to fill these positions if there is ongoing				received applications, the recent applicants have not been selected to on this Finding (#43) and DHS rolled out the DHS Product Owner Roles and	d the ASI perspective,
	cause gaps in knowledge transfer and leadership on the Project.			next few months or have already transitioned off the project. While ther are plans and actions being taken, a formal transition/succession plan ha	of consistency and continuity to the extended project team. This experience and knowledge is critical for the BES DDI and KOLEA Modifications, and	difficulty in finding permanent hires. 5/31/2021 - DHS continue to work with the appropriate organizations to identify the funds necessary to fill				Interview. 1/31/2023: The BES project management duties and Responsibilities to the DHS team on January 29, 2021. (Gary provided the responsibilities continue to be filled by the new DHS contract Project Final DHS Product Owner Roles and Responsibilities document to IVV or	the changes to the
	residenship on the Project.			not been documented. In January, the ASI did announce and introduce a	planning efforts for BES Maintenance and Operations activities.	these positions, - In progress. The state should document a transition plan.				Manager (PM) and the Assistant Project Manager. However, the new PM is 02/8/2021). 06/30/2020 - Mark Choi is becoming more involved in the	of the BES project
				interim Project Manager, but a plan for a permanent replacement is not	Additionally, as per the budget, DHS stated if they are unable to fill these	for the project and PMO resources as identified in the RFP (reference RFP				still onboarding and learning about the BES Project. The lack of DHS PMO project. Involved in Arch decisions and PM decisions around tool sets,	have provided little
				currently known.	positions timely, DHS may fall out of federal funding compliance and lose	section 3.4.3 'DHS Staffing'). The plan should include the possible COVID-19				resources could lead to Project delays if Program PMO responsibilities are future vision, etc. Day to day PM working closely w/ Gary and Emerald.	
					the \$37 million needed matching funds for continued development of BES.	economic impact to the state budget, directly in relation to the project resources Closed The ASI should document a transition plan for each key				not met timely. 12/31/2022 - No material update in the reporting period as have no insight into other DHS staffing. the work stoppage continued and the new ASI conducted restart planning.	project. At this point, the knowledge
						resource as required by the RFP (reference RFP section 3.5.1.2 'Benefits				NV will reassess this finding and our associated recommendations once	transfer gaps have
						Eligibility Solution Project Staffing'.) - Closed				more is known. 11/30/22 - No material update in the reporting period as the work stoppage continues and the new ASI conducts restart planning.	been closed and the
										the work stoppage continues and the new ASI conducts restart planning. 10/31/2022 - No work has been performed regarding this finding due to the	leadership of the
											hands from DHS. We
										recommendations for this finding once more is known. 9/30/2022 - No	recommend that the
										material update in the reporting period. 8/31/2022 - DHS continues to seek	IV&V reassess the
										applicants for the three PMO positions these positions remain unfilled. 7/29/2022 - DHS has received minimal applications for the open PMO	probability of impact and severity of impact
										positions therefore, they may fill the positions with contractors. IVV does	and severity of impact and lower the overall
										not have visibility to the full impact of the delay in filling these positions.	rating for this
										However, some of the administrative and contract management activities	risk.3/3/2020 - The ASI
										are significant so DHS assigned these activities to internal staff on an interim basis. 6/30/2022 - DHS continues to recruit for PMO resources. No other	PM stated the Project Coordinator position is
										material updates for this reporting period. 5/31/2022 - DHS continues to	filled and they will
										recruit for PMO resources, but the three positions remain unfilled. However,	begin work on
										some PMO responsibilities are being addressed through existing resources. For example, the contracted DHS PM has filled in leadership gaps and and	3/9/2020, transition activities from Donna
										has positively impacted the Project. 4/28/2022 - No material updates for	will begin next week
	Uncertainty and/or a lack of communication	Fors, Michael Findi		Throughout the last several year since project initiation, platform and BES			ASAP	2 2 Low	Open	2/28/2023 - The ASI has made efforts to clarify the scope of BES 2023 in the 05/30/2020 - Combined application is still planned. App still not finalized	DV .
29	around long-term architecture decisions could impact the project budget, schedule,	Issue	Man	ement system architecture decisions have not always been clearly communicat	d inclusive of all known future solution plans as soon as details become d available. These architecture plans and future state designs and capabilities	Deliverable with additional details as they become available and with any finalized architectural changes - DHS should finalize the Portal strategy and				recent Agile training sessions. There remains some uncertainty around the DHS. From Arch perspective, we are building in Liferay. Future integratio use of ServiceNow (SN) and the tools that will be utilized for eGRC. of the portals is still to be determined, but is not more complex than	n 4/23/21 rap - The ASI and DHS continue to
29				DHS had not broadly communicated their decision implementing two Siel	el should be thoroughly vetted by a broad base of relevant stakeholders and	finalized architectural changes - DHS should finalize the Portal strategy and implementation details and clearly communicate out to stakeholders and				01/31/23 - It remains unclear if the scope of the BES 2023 phase 1 has been originally planned for data sharing. If change is made to Adobe, this would	and DHS continue to ld refine the final plan
29	system design, and planning decisions			instances (one for KDLEA, one for BES) in a timely manner, and the decisi	n available experts and broadly communicated to relevant stakeholders as	project teams. Complete 3/31 - The Project should continue to vet possible				OI 5312 = ** It critism controller in the scope or interest rocks place it his teem originally planned for data sharing. In change is made to Audoce, this would clearly communicated to stateholders. For some, the understanding it that require a CR. the ASI is developing a lift-and-shift of their existing legacy system (HAWI)	for the two portal
29	system design, and planning decisions.			was not immediately reflected in the project change log or the project	soon as possible. Architecture plans and changes that are not effectively	architectural change impacts to the platform (e.g., ADA, Configuration				the ASI is developing a lift-and-shift of their existing legacy system (HAWI)	vision. We expect that
29	system design, and planning decisions.					Management tools), M and O, MQD, and BES systems before finalizing				with little to no improvements (to avoid scope creep) and have labeled it HAWI 2.0. Others seem to think the ASI will continue the work of the	final decisions will
29	system design, and planning decisions.			decision log. Further, the details of the rationale for this decision or the pl	n communicated can lead to confusion and rework. For example, if	and the street of decisions. DUE and the statement AFI and ' ' '''					
29	system design, and planning decisions.			decision log. Further, the details of the rationale for this decision or the pl for integrating the two instances were not immediately and/or broadly	infrastructure tools, governance for these tools, and important	architectural decisions DHS continue to request ASI perform due diligence	1				likely be made during this reporting period
29	system design, and planning decisions.			decision log. Further, the details of the rationale for this decision or the pl	infrastructure tools, governance for these tools, and important capabilities/features of these tools are not clearly communicated to development teams, they may have to rework their designs once they realize	architectural decisions DHS continue to request ASI perform due diligence in any recommendation for foundational architecture change decisions and continue to review with appropriate DHS stakeholders to assure a common	d			previous ASI that include improvements based on previous ASI design sessions. 12/31/22 - IVV and some DHS stakeholders remain concerned	this reporting period and communicated to
B	system design, and planning decisions.			decision log. Further, the details of the rationale for this decision or the pl for integrating the two instances were not immediately and/or broadly	infrastructure tools, governance for these tools, and important capabilities, features of these tools are not clearly communicated to development teams, they may have to rework their designs once they realize more advanced platform capabilities/features are available after	architectural decisions DHS continue to request ASI perform due diligence in any recommendation for foundational architecture change decisions an continue to review with appropriate DHS stakeholders to assure a common understanding of the implications of these decisions The Project should	d			previous ASI that include improvements based on previous ASI design sessions. 12/31/22 - NV and some DHS stakeholders remain concerned with the lack of carity and lack of communication around the plans for and	this reporting period and communicated to the project. The ASI
B	system design, and planning decisions.			decision log. Further, the details of the rationale for this decision or the pl for integrating the two instances were not immediately and/or broadly	infrastructure tools, governance for these tools, and important capabilities/features of these tools are not clearly communicated to development teams, they may have to rework their designs once they realize	architectural decisions DHS continue to request ASI perform due diligence, in any recommendation for foundational architecture change decisions and continue to review with appropriate DHS stakeholders to assure a common understanding of the implications of these decisions The Project should continue to ensure communication between development leads and	d			previous. Ast that include improvements based on previous ASI design sessions. 19/3/12/—2 MV and some MPS istabledders remain concerned with the lack of clarity and lack of communication around the plans for and capabilities of the Sip dulle posts. 19/3/19/22—7 the new ASI (see developing	this reporting period and communicated to the project. The ASI refers the IV&V to our
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