

DEPT. CO KALUNA HO'OMALU HANA LAULA 9

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October 17, 2024

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-Second State Legislature State Capitol, Room 409 Honolulu, Hawai'i 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,

Christine M. Sakuda 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: September 1 – 30, 2024

Submitted: October 15, 2024



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



The BES project officially postponed the Pilot and subsequent Statewide Go-live. The ASI and DHS are evaluating options to refine the scope and schedule for the Pilot and Statewide rollout. One option supported by IV&V is to plan for all contract requirements with some change requests to be included in the Pilot implementation. This approach offers the opportunity for the ASI and DHS to conduct full integration testing, minimizes rework and workarounds, and allows for streamlined user and stakeholder training since it will include all required functionality for the Integrated Eligibility and Enrollment solution.

Work continued during this replanning effort, including:

- Final Acceptance Testing (FAT) and related defect resolution, with high fail rates continuing for both real time and time travel environments (21% and 48% respectively).
- New quality improvement standards are being implemented for all ASI developers to address the poor code quality that is contributing to high defect rates during testing. This is causing developers to be frequently reassigned from the BES 1.1 solution to focus on defect resolution.
- Development of the overdue final Requirements Traceability Matrix (RTM) report deliverable, which will now need to include scope for both BES releases and change requests (including additional requirements update); adding additional effort needed to complete.
- ASI and DHS security teams addressing issues from third-party and Social Security Administration (SSA) assessments, including launch of SSA required security awareness training (an issue since the 2021 SSA assessment).
- The project team agreed to put FAT on hold for two weeks (starting September 30th), allowing the ASI time to address the large number of open defects (1 critical, 104 high, 191 medium severity as of 9/24).

A revised schedule, incorporating the development of the remaining contract requirements, is anticipated in early October. Should the project team modify its approach to project completion, IV&V recommends that ASI provide clear communication on the changes and establish a forum for the project team to discuss the updates and adjust based on team feedback.

In addition to the actions described above, IV&V acknowledges and appreciates DHS and the ASI addressing team morale to include demonstrating executive support. This was a challenging month for the project, IV&V commends the project team in making this difficult decision and will continue to support the project through statewide implementation.

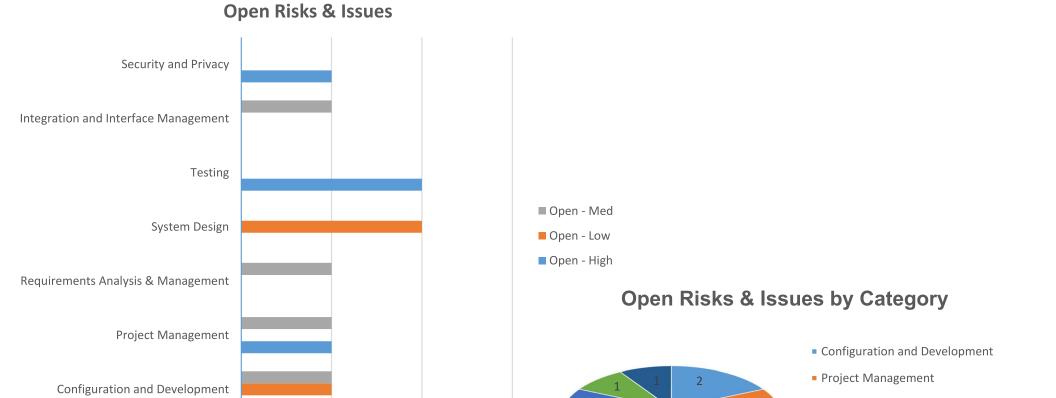
Executive Summary



Jul	Aug	Sept	Category	IV&V Observations
Н	Н	Н	Project Management	The ASI and DHS PMO teams focused on a reset of the project direction, agreeing to combine BES 1.0 and 1.1 into one release. No schedules were published in the reporting period, as the ASI focused on rebuilding a new schedule to incorporate the scope of 1) combined releases, 2) change requests from DHS, 3) crucial functionality list from DHS.
L		L	System Design	The ASI made progress on several delayed infrastructure items this reporting period, improving overall preparation for Pilot go live.
M	M	M	Configuration and Development	To address recognized code quality issues the ASI has added senior staff to drive a new quality initiative, focused on defining specific steps for all developers to follow to improve the quality of BES solution.
M	L	L	Integration and Interface Management	Seven of the nineteen required interfaces for the revised implementation plan, a combined release for BES 1.0 and 1.1, have completed physical and technical testing in preparation for the Pilot go live.
Н	Н	Н	Testing	Due to the continued high level of defects in FAT, the project team will put the formal FAT on hold for two weeks beginning on September 30 th , allowing them to focus on defect resolution of existing defects.
Н	Н	Н	Security and Privacy	The ASI completed the updates to the System Security Plan (SSP) Appendix A, related to Secure Enclave and IRS Federal Tax Information requirements. Additionally, required Social Security Administration (SSA) security awareness training started for impacted staff.
M	M	M	Requirements Analysis & Management	The ASI demonstrated progress in finalizing the BES contract deliverable BI-21 Requirements Traceability Matrix (RTM) extract report in the reporting period, but a date for completion has not been provided. DHS will need an RTM that covers all BES requirements, with the decision to combine releases being agreed to.



As of the September 2024 reporting period, PCG is tracking 11 open findings (5 risks, 6 issues) and has retired a total of 76 findings. Of the 11 open findings, 4 are High, 4 are Medium, and 3 are Low.



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■ Requirements Analysis & Management

Integration and Interface Management

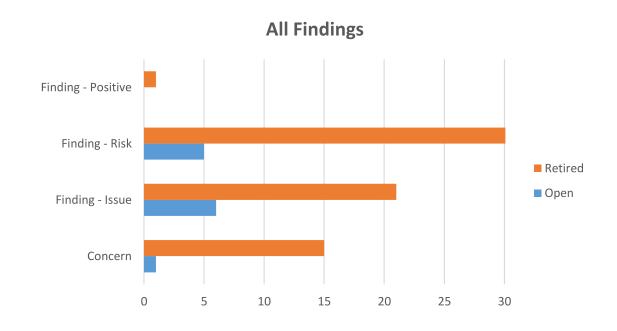
System Design

Security and Privacy

Testing



The following figure provides a breakdown of the 88 IV&V findings (positive, risks, issues, concerns) by status (open, retired).





Findings Retired During the Reporting Period

#	Finding	Category
	None	



Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
98	Delays in providing the required deliverables to FNS could extend the review time needed and delay FNS's concurrence to start the pilot. The status of this preliminary concern will be reevaluated by the IV&V team after the project team determines the approach, requirements/functionality and schedule for the Pilot and Statewide rollout.	Project Management



Findings Opened During the Reporting Period

#	Finding	Category
	None	



Project Management

#	Key Findings	Criticality Rating
	Issue – 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 project did not meet the Pilot Go Live date as the schedule was not realistic for the planned work to be performed, and new functionality was requested by DHS via change requests (12 overall). No updated schedules were published in September, as the ASI worked through revising the schedule to align with the new project direction (combining releases) and including the scope for change requests and a crucial functionality list from DHS. Per prior recommendations, the ASI and DHS should conduct a root cause analysis and incorporate the results in the new schedule.	Н

Recommendations	Progress
 Monitor, evaluate and revise scheduling estimates for accuracy based on the project teams past performance and resources available to do the remaining work. 	In Process
 The ASI conduct a root cause analysis of the delays and share with DHS to provide them not only the RCA results but what changes the ASI will implement to avoid continued or further project delays. 	Completed



Project Management

#	Key Findings	Criticality Rating
	Risk – Implementing a Core Solution for go-live carries inherent risks that may impact overall Project success and reduce user adoption.	
88	Without an RTM, there is ambiguity on the ASI presented enhancements and critical functionality list developed by DHS as compared to the contract requirements. IV&V recognizes the project is almost 6 years old, meaning policy and business operations has changed which may drive the need for enhancements. However, these lists should be validated and negotiated by DHS and ASI to ensure DHS does not pay for functionality twice.	M

Recommendations	Progress
 Increase OCM efforts to effectively manage user, general public, and legislative expectations for the BES version at go-live. 	In process
 Prioritize feedback from users and FNS to ensure the solution meets their core needs and so users are clear on what features they are, and are not, getting. 	In process
 Actively monitor, assess, and address potential challenges throughout the development process including code quality, cutting scope to meet development milestones, insufficient user validation of demonstrated functionality, and fully defined workarounds to accommodate for the missing functionality. 	In process
 Actively monitor FAT and Pilot feedback and track users' biggest pain points. Pain points can then be prioritized based on negative impact and project leadership can decide if fixing or changing poor designs can be implemented prior to go-live. 	In process



System Design

#	Key Findings	Criticality Rating
86	Issue – Limited collaboration between the ASI and DHS in the design process could lead to BES usability issues and functionality gaps in the application and not meeting critical business needs for DHS and State clients.	
	During FAT testing, DHS identified policy-driven gaps in required functionality in the BES application – the focus on this finding – leading to a group of change requests that will need to be added to the overall effort to complete BES development.	

Recommendations	Progress
 Perform Sprint and Epic demos in alignment with development Sprint completion (demo functionality/requirements as they are developed) to get early feedback on work products. 	In Process
• Improve rigor in the Design process by verifying all impacted policy and DHS SMEs are involved and approve the design to avoid extensive defects and gaps in functionality that may trigger the need for a change request.	Not Started



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	The project continues to make progress on its technical debt (infrastructure activities that were put on hold to work on priority items), including improvements to MongoDB, DataDog, and Boomi. The project has initiated the process with Netenrich to convert to the new Google SecOps platform and may add more components/services, including the Consul API Gateway and Private Service Connect. The ASI intends to update the BI-12 before Pilot to reflect these changes/additions.	L

Recommendations	Progress
 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 tools/components. 	In process
 ASI allot time in the schedule to conduct proof of concepts to assure infrastructure components work as expected. 	In process
ASI maintain a detailed schedule for DevOps implementation tasks to avoid unexpected delays that could delay project milestones and the critical path.	In process



Configuration and Development

#	Key Findings	Criticality Rating
	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution.	
70	The ASI had recently stated they plan to update their Configuration Management Plan (CMP) list of configuration items (CIs) and CMP procedures by 9/20/24 but has since experienced some delays in completing these activities.	L

Recommendations	
 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



Configuration and Development

#	Key Findings	Criticality Rating
80	Issue – Development delays have negatively impacted the project schedule and delayed go-live. The ASI has recently taken steps to increase the code quality and productivity of their development team by adding senior development resources including a development quality lead and a new development manager. They hope to refocus the development team to be more disciplined in their coding practices and unit testing to reduce coding defects. The ASI has reported they currently have 84 developers (37 off-shore and some part-time) working on BES and plan to add 50 more off-shore developers at some point to expedite development. The ASI has acknowledged that coding defects have hampered the projects productivity, created project delays, and frustrated the DHS testing team given the volume of defects they needed to report and document. It remains unclear how quickly newly added developers will be able to get up to speed and how quickly they can be productive enough to make a measurable, positive impact on the pace of development. As of the last ASI status report, there are 376 unresolved defects (104 high criticality), despite their best efforts to bring that number down. The ASI will utilize the recently announced 2-week FAT pause to resolve defects.	M

Recommendations	
 ASI effectively track and regularly provide DHS (potentially via the weekly DDI status meeting) with an accurate velocity (e.g., story points per day/week/month) and assure that the current velocity is accurately and consistently reflected in the project schedule. 	In process
The ASI should provide DHS with the time needed to effectively evaluate the software demonstrations (demos) and elicit productive design discussions with DHS attendees during each demo.	In process
ASI regularly reports estimated story points for the total remaining project work to reach go-live and presents a dynamic burn-down chart to track the progress.	In process
The ASI should consider enhancing the depth of developer unit testing.	In process



Integration and Interface Management

#	Key Findings	Criticality Rating
	Risk – Due to the lack of physical and technical (Transport Layer) testing of the interfaces and data transfer failure, conditions may exist with data format, boundaries, and dependencies. These failures may result in intermittent and hard-to-isolate problems or errors.	
93	The seven interfaces required in the planned Pilot release, BES1.0, have been completed. Twelve additional interfaces will require the same physical and technical testing in the revised implementation plan, which combines BES 1.0 and 1.1 into a single Pilot and Statewide release. This finding will remain open until testing for all 19 interfaces is completed.	L

Recommendations	
API interfaces should be tested for failure conditions during connection and transfer operations.	In Process
FTP and file interfaces should be tested for data and file integrity.	In Process
 Test data fields for system impacts resulting from data that is poorly formatted, out of range, or other unexpected data transmission errors. 	In Process



Testing

#	Key Findings	Criticality Rating
	Issue – Gaps in test coverage and slower-than-expected progress in testing may result in schedule delays if subsequent test phases uncover a higher volume of defects and user feedback than initially anticipated.	
83	IV&V recognizes the project team's decision to postpone the Pilot and Statewide implementation, and that DHS and ASI are jointly developing a revised approach and schedule. Meanwhile, IV&V's review of testing trends reveals mixed results. Compared to last month, passed test cases increased 22% in the real-time environment (421 to 513) and 309% in the time travel environment (42 to 172). However, failed test cases remained relatively stable in real-time and rose 51% in the time travel environment (106 to 160).	Н

	Recommendations	
•	Monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested.	In Process
•	ASI should determine the root cause of the failure to identify simple defects in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering UAT/FAT.	Completed
	ASI utilize the two-week FAT testing pause to address and resolve outstanding SIT defects and apply the fixes in the FAT environment, ensuring that these defects do not recur when FAT resumes, optimizing testing efficiency and reducing potential defect rediscovery.	In Process



Testing

	Key Findings	Criticality Rating
	Issue—The current mitigation approach to completing the development of the remaining Epics is condensed and aggressive, which may increase the likelihood of schedule delays, quality issues, and a higher volume of testing defects.	
89	The project has recently announced additional go-live delays but have yet to provide a revised go-live date. The ASI has stated reasons for the delay include significant volume of defects, code quality issues, development delays, and DHS needing more time to complete their FAT testing. As of the last project status meeting, epics 243, 244, and 286b remain incomplete and the ASI was unable to provide expected completion dates.	Н
	IV&V remains concerned that the accelerated schedule may adversely impact overall project outcomes, leading to increased risks of quality issues, further schedule delays, and insufficient testing.	

Recommendations	
Develop Contingency Plans if the mitigation plan continues to see slippage affecting INT and SIT.	In process
 The ASI provides comprehensive INT results and SIT scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution. 	In process
The ASI validates that development and testing resources have sufficient bandwidth to complete overlapping assigned responsibilities	In process



Security and Privacy

#	Key Findings	Criticality Rating
	Issue – The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan (SSP).	
82	In September, the ASI completed the updates to the System Security Plan (SSP) Appendix A, specific to the Secure Enclave and IRS Federal Tax Information Requirements. A POAM (Plan of Action and Milestone) is used to track updates to the main body of the SSP. The ASI has also stabilized the Tenable Nessus scans, which scan for vulnerabilities and configuration compliance of the servers that host BES. DHS has begun implementing the Social Security Administration (SSA) security awareness training and collecting compliance evidence to submit to the SSA. This remediation of a 2021 SSA POAM is expected to allow BES access to SSA data.	Н

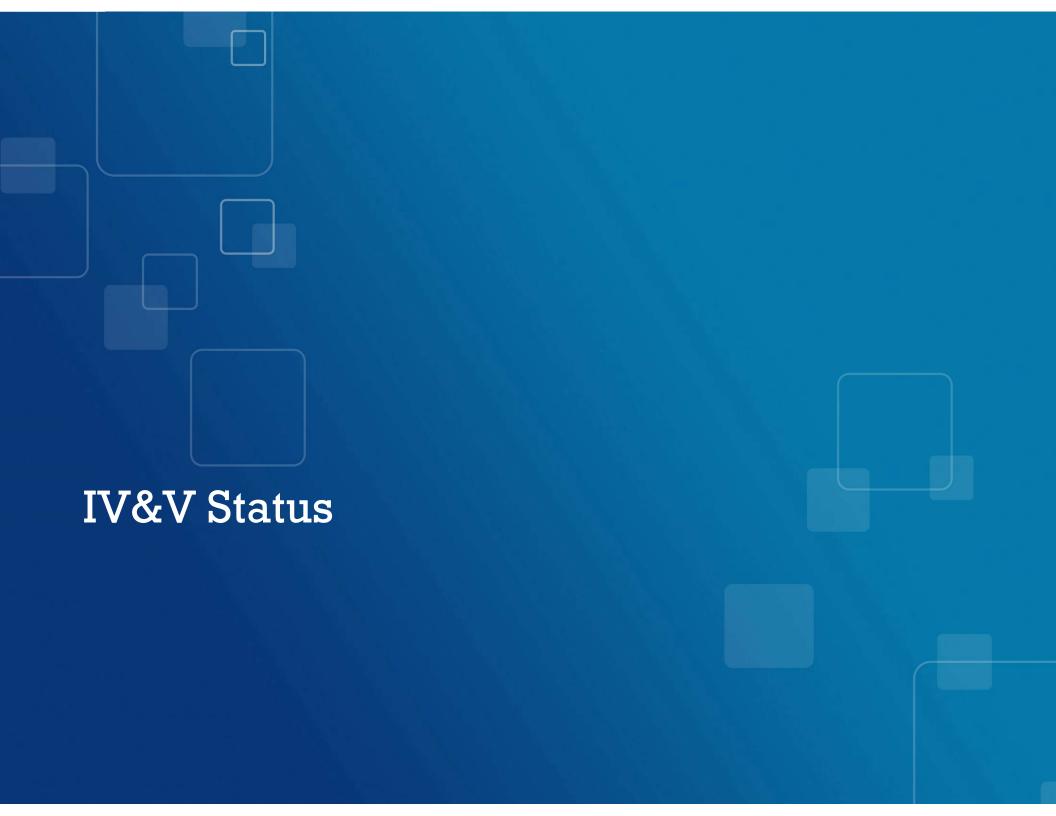
Recommendations	
Determine when documentation will be created, updated, and available for the SSP authors.	In process
 Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. 	In process
 Perform a full review of all draft SSP controls for content and accuracy prior to the start of the Independent Security Controls Assessment of BES and submission of the SSP package to federal regulators. This will allow the SSP authors to update controls with changes from Design through Implementation. 	Completed
 Begin monthly Plan of Action and Milestone update meetings between DHS Security and the ASI Security teams to inform each other of progress and updates made against each POAM. 	Not Started



Requirements Analysis & Management

#	Key Findings	Criticality Rating
	Risk - The lack of an effective way to validate BES requirements could lead to project delays and unfulfilled user needs if DHS later identifies unmet contractual requirements.	
94	The ASI did demonstrate some progress in providing a set of RTM reports that match the approved Deliverable Expectations Document (DED). However, DHS still did not receive a comprehensive report to confirm all expected contractual requirements for approved Epics have been developed and tested successfully. With more scope being added as part of new project direction, it continues to be critical that DHS is provided an RTM to confirm requirements are met.	M

Recommendations	Progress
 Develop a document that provides DHS with a feasible and effective way to map contract requirements to passed test cases, and, per the BI-19 (Complete and Final Test Plan),"Maps the implementation, functional and technical requirements to the test cases and test scripts". 	In Process
 Ensure test scripts thoroughly and comprehensively test the system to assure each requirement has been fully met. 	In Process



IV&V Engagement Status



IV&V Engagement Area	Jun	Jul	Aug	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final August IV&V Monthly Status Report.
IV&V Staffing				
IV&V Scope				

	Engagement Status 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 the September reporting period:
 - Completed August Monthly Status Report
 - Ongoing Review the BES Project Artifacts and Deliverables
 - Ongoing Attend BES Project meetings, (see <u>Additional Inputs</u> pages for details)
 - Ongoing Review available ASI contracts and contract amendment documentation
- Planned IV&V activities for the October reporting period:
 - Ongoing Observe BES Design and Development sessions as scheduled
 - Ongoing Observe Bi-Weekly Project Status meetings
 - Ongoing Observe Weekly M&O 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
Hypercare Plan	09/23/2024	V1.0

Additional Inputs – Artifacts



Artifact Name	Artifact Date	Version
BES 2023 Design Kanban board	N/A	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
SNAP_System_Integrity_Review_Tool	Sept 2022	N/A
Interface Dashboard – Confluence page	N/A	N/A
BES 2023 Implementation Planning – Confluence page	N/A	N/A
R0.12 Epic Assignment	N/A	N/A
R0.12 Epic and Sprint Demo Recordings	N/A	N/A
ADA dashboard	N/A	N/A
Jira Requirements Details	N/A	N/A
Jira Testing Lists	N/A	N/A
FAT Testing Dashboard	N/A	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. IV&V Team Meeting 9/3/2024, 9/5/2024, 9/9/2024, 9/12/2024, 9/16/2024, 9/19/2024, 9/23/2024, 9/26/2024, 9/30/2024
- 2. HI DHS BES August Draft IV&V Report Review 9/13/2024
- 3. Bi-Weekly DHS and IV&V Touch Base 9/3/2024
- 4. Bi-Weekly DHS BES PMO/IV&V Check-in 9/12/2024, 9/26/2024
- 5. Weekly BES Infrastructure meeting 9/6/2024, 9/13/2024, 9/20/2024, 9/27/2024
- 6. Weekly Client BES 2023 Project Status Meeting 9/4/2024, 9/11/2024, 9/18/2024, 9/25/2024
- 7. Security Touchpoint 9/4/2024, 9/11/2024, 9/18/2024, 9/25/2024
- 8. (Externa(I) Weekly Interfaces Touchpoint 9/9/2024, 9/16/2024, 9/23/2024, 9/30/2024
- 9. (External) Readiness Working Group Meeting 9/3/2024, 9/10/2024, 9/23/2024
- 10. (External) Bi-weekly BES CCB Meeting 9/18/2024
- 11. (External) BES: FNS Connect 9/26/2024
- 12. (External) C!A Current Weekly Checkpoint 9/3/2024, 9/10/2024, 9/17/2024, 9/24/2024
- 13. eWorld/IV&V Mid-Month Check-in 9/20/2024
- 14. (External) BES M&O Project Status Meeting 9/9/2024, 9/16/2024, 9/23/2024, 9/30/2024
- 15. (External) BES Snow Touchpoint 9/11/2024, 9/18/2024
- 16. (External) BES FAT Daily Touchpoint 9/1/2024 9/27/2024 (daily call)
- 17. (External) BES FAT Daily Defect Status Meeting 9/1/2024 9/27/2024 (daily call)





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
- Data Management and Conversion

- Security and Privacy
- Testing
- OCM and Knowledge Transfer
- Pilot Test Deployment
- Deployment

Endina Slide



Solutions that Matter

Finding	Identified					Analy	st Finding		
ID Title Reporter Type 98 Delays in providing the required deliverables Molina, Brad Concern	Date Category 7/24/2024 Project	Observation Sign Not all the documents that FNS is required to review have been provided. In The	nificance BES pilot cannot start without FNS's concurrence. Therefore, it's critical	Recommendation	Event Horizon Impa	ct Probability Prior	ty Status Open	Status Update Client Comments 09/30/20204 - The status of this preliminary concern will be reevaluated by	Vendor Comments
to FNS could extend the review time needed and delay FNS's concurrence to start the pilot.	Management	the weekly Readiness meeting on 7723, it was mentioned that FNS is at its year-end, so its workload is backing up, which might require its document so fereiven to take the full 60 days. The longer OHS delays getting deliverables to FNS, the closer it gets to the planned start for Pilot.	project team deliver the required deliverables to FNS as soon as possible		TAUM	3 3 10	Open	the IVV team after the project team determines the approach, requirements/functionality and schedule for the Pilot and Statewide rollout.	
S4. The last of an effective way to validate IMS. Molina, Brad. Finding-requirements could find to project dark programma from the programma and unfulfilled user needs if CHSI later selectifies unmet contractual requirements.	4/25/2024 Regulerness Andrews Sammer	ensuring the hystem's complaines with command commitment by actionating each regiment with passed set access) covered with a consideration of the commitment with passed set access) covered with a complaint of the commitment of t	completion. Diff may be unable to make an informed decision on SIT and its read to the state of	the B-39 (complete and Final Text Final). Mays the implementation in Membrane and technique developments to be the times and test scripts. ** filtrare that scripts theroughly and comprehensively text the system to assure each requirement that the membrane of the system to assure each requirement that there filtrare the strength membrane the requirement that there filtrare the system to assure each requirement that there filtrare the system to the		3 3 Med	Open	MONITORIA The ASI did demonstrate some progress in providing, set of MTM reports that make the approved billower be prostated included be prostation to Comment (ODE). However, DISI still did not receive a comprehensive report to confirm all expected conformation requirements of the comment of the confirmation of the conformation of the confirmation of the confirma	9/9/2024 Includes information on internation on internation on internation on internation on internation of internation of international inter
39 Dos to the lack of physical and technical Rependids, Finding-testing of the inference and data transfer. Mark Risk States and State	interface Management	min test	fault-te-recold issues, such as scramfeld or missing data – or the system have a fault or exception. Since the Propeler and non-stabilized and and edit the fault scenarios, we do not know how the system may react.	comection and transfer operations. J. Fill and file interfaces should be functioned to data and the imprigney. A rest data fallow frystem impacts resulting from data that is poorly formated, our of range, or other unspecied data transmission errors. Removed, "Qu'in, no transactional interfaces therefore no race conditional," All interfaces should be stead for the conditional properties of the properties o	e	3 2 low	Open	OR/DIGITA2—The 7 interfaces used in the planned Pilot relose, BELLO, have been completed from the been been completed intervene, the other 12 cleans required for the manage. The finding is blank just good and the planned pilot good good good good good good good go	06/14/2024 As mentioned at the May pre-ment, a technical interface technical interface technical interface technical interface technical interface of the following fo
The current approach to completing the facility, Neeth of Sending-development for remaining epic is condimined and aggression, which may series see the fallowing of streeting editing, and the series of the fallowing of streeting editing. The condition of the series of the ser	13/11/2023 *Testing	The diff be falses scheduled for completion before fideses at 2.5 'st will not be ready. To sold off delay, the current species be beginn fit without the 10 falses and first them as they are completed. Additionally, fileless 0.12 may decompleted the completed of the sold of the completed of the sold of the completed of the comp	y increase the risk of significant dialays or introduce diefects into the diucidion environment.	OPIN. The AX validates that development and testing resources have undirected broadwidth complete constiguing segment recombilities. Develop Configuration plant certains to see slippage development of the configuration plant certains to see slippage development of the configuration plant certains are set in plant to complete the Six might configurate the second configuration of the configuration of the configuration of the configuration of the certain plant configuration of the configura		4 S High	Open	9/30/2024. The project has recently announced additional gain-the ethips but have yet to provide a visined gain-the ethips. Bits stated reasons for the distip studied significant volume of offsets; code quality issues. 9/30/2024. The project volume of offsets; code quality issues, offsets provide projects of the complete studies of the complete studies. The complete studies of the complete studies of the complete studies of the complete completion of the complete studies of the complete completion of the complete studies of the complete completion of the complete studies of the complete studies of the complete completion of the complete studies	06/14/2024 Why is the still rest? This should be in yellow for nonstering after discussions in April (Marker report), and in the property of the still rest
88 Insplementing a Core-Solution for gar live Molina, throad Finding - carries shared risks that may injust a overall project success and reduce user adoption.	11/0/2023 Project Management	development as a Minimum Valde Product (MPP), which is a simplified with a version of a product to Joffer Inductionally the mises the core needs of partners. J can accelerate the timeline for go live, and 3) allows the project to limit the product everlipheness of the product everlipheness of the product everlipheness. The product everlipheness of the product ev	has potential challenges in securing user bayen. This can result in the fetter out-adjoint, our dissiliation, and register publicly, rectainly conclosing the flurious dissiliation, and register publicly. Protein proceedings the flurious dissiliation of the delivery of a fetter distinctively, a consistency of the flurious distinctives of the flurious distinctive distinctive of the flurious distinctive distinctiv	ingitative expectations for the BES visions as gainles. Principate feedback from users and 15% seamer be solution ensets faircrive reseals and to must use fair the same the solution ensets faircrive reseals and the controller seamer		3 3 Med	Open	and the control of th	Was risked to the Sol SA/16/2022. "Some required 815 functionality will be implemented posts of Polic." What does the term of the sol of the sol of the sol of the sol of the sol of the sol o

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ID Title	Finding	Identified Cotons	Observation	Posterior		ant Mariana	Analys	Finding	Control landers	Charles Community	Vender Communic
86 Limited collaboration between the ASI and Molina	na, Brad Finding -	8/1/2023 System Design	Observation During the UAT process for release 11, there has been a high level of	Significance A significant amount of money and DHS resource time have been invested in	Recommendation Eve OPEN - Perform Sprint and Epic demos in alignment with development No	w 2	obability Priorit 2 Low	Open Open	Status Update 09/30/2024 - No material update in this reporting period. 8/30/2024 -	Client Comments 10/11/2023 Jessica - Our SMEs are providing their feedback. This is one of	of Vendor Comments
DHS in the design process could lead to BES usability issues and functionality gaps in the	Issue		concerns raised by the DHS testers regarding the usability of the BES system challenges with the user interface, missing functionality, and basic screen	, the BES solution, with the expectation that the new system will at minimum provide all functionality found in current applications – but really should	sprint completion (demo functionality/requirements as they are developed) to get early feedback on work products Improve rigor in the Design				Design activity was minimal in the reporting period, with DHS reviewing the final Self Service Portal (SSP) designs. IVV continues to monitor design	the items that I clarified with IV&V, that there are feedback given, no feedback means design is ok. I rec'd an emal back from Joe F. that IV&V	06/14/2024
applications, not meeting critical business			layout issues that would not be expected in a modern application. Based on	provide additional capabilities, greatly enhanced user interface, and overall	process by verifying all impacted policy and DHS SMFs are involved and				activities to validate continued collaboration between the ASI and DHS.	wants to meet with our reviewer to validate this.	
needs for DHS and State clients.			defect reporting from the UAT process, a large majority of the defects are related to "design errors". Although the Release 11 UAT cycle was testing a	improved usability from current systems. Should the solution fall short of expectations, there may be challenges in DHS staff adoption; lack of	approve the design to avoid extensive defects and gaps in functionality that may trigger the need for a change request CLOSED - ASI and DHS re-				7/31/2024 - IVV observed positive progress this month with the ASI providing specific actions to address DHS concerns regarding the Mass		Why is this in Not Started? We had a liv
			partially build system, a significant amount of design defects was	confidence in the solution providing the accurate information needed to	evaluate the effectiveness of the recorded Sprint review process to ensure				Change Functionality (Epic 208). 6/31/2024 - IVV observed DHS and the AS	ı	sprint demo for Epic 209. In addition, this
			attributable to functionality developed for Release 11.	provide benefits to HI citizens; reduction in ability for DHS to provide the same level of needed services to clients, resulting in bad publicity for DHS	that designs align with DHS expectations. (closed 3/31/2024) - Include a wide enough audience in all design and demo sessions to validate FNS and				working collaboratively in a setting that promoted healthy dialogue on the BES design therefore, the criticality rating is updated from a medium to low		209. In addition, this should not include
				and the state.	DHS functional and technical requirements and system usability. (closed				05/30/2024 - The ASI plans to continue live Sprint Demos for the remaining		Epic demos. We have
					6/14/2024) - Perform comprehensive (demo all requirements) review during Epic demos, not just the items that were added/updated, allowing				Epic design work, providing a venue to increase collaboration with DHS. The SSP development will follow the Waterfall methodology, so no sprints or		always had live Epic demos.
					DHS to provide early feedback on possible issues/gaps that might not be				demos will occur. 04/30/2024 - IVV commends the ASI and DHS team for		Regarding SSP
					apparent when focusing on specific functionality. (closed 6/14/2024)				reverting to conducting four live sprint demos in support of Epic 209. These proved to enable timely, efficient collaboration. 03/31/2024 - Due to a high		following the Waterfall
									number of questions and concerns from DHS during Epic demo 261		methodology DHS
									(Approvals and Supervision), the ASI committed to hosting another demo to address all the feedback. Changes raised late in the design process could		has approved all the designs, except one.
									require code changes, potentially causing schedule delays or the resulting		We are collaborating
									solution not meeting the business need. DHS staff attending Epic demos should be prepared with an understanding of the agreed-upon designs and		with DHS to obtain their approval on the
									policy requirements relevant to the Epic so that feedback is efficient and on		outstanding design.
									point. 02/29/2024 - One demo (Epic Demo 211) was held in February as th ASI focused on developing a Go-to-Green Plan for the Project. DHS also	e	Design sessions will be scheduled as part of
									raised concerns in Readiness meetings regarding a gap in design where		this process. There
									eligibility is not forced to run when critical benefit data is modified on a cas which could also point to a gap in collaboration on key design decisions.	e .	are 20+ people invited to the design sessions.
									01/31/2024 - DHS viewed Sprint demos for Epics 247 and 284 on January 9		04/10/2024 -
83 Gaps in test coverage and slower-than- expected progress in testing may result in	, Neetu Finding -	6/2/2023 Testing	After examining the Project's R11 QA Dashboards, R11 Traceability Dashboards, and Test Repository, gaps in testing coverage may exist and the	Identifying defects early is vital for effective testing, as it is more efficient and cost-effective to address issues during the early testing stages. If there	OPEN - DHS and ASI monitor INT/SIT closely for both breadth and depth of UA testing to ensure the system is adequately tested - ASI utilize the two-week	Т 4	4 High	Open	9/30/2024 - IVV recognizes the project team's decision to postpone the Pilo and Statewide implementation, and that DHS and ASI are jointly developing	•	
schedule delays if subsequent test phases			progress of testing might be lagging. Concerning testing coverage, it appears	is slow progress or incomplete testing in the early stages, it can result in	FAT testing pause to address and resolve outstanding SIT defects and apply				a revised approach and schedule. Meanwhile, IVV's review of testing trends		7/12/2024
uncover a higher volume of defects and user feedback than initially anticipated.			that not all epics and use cases in R11 have associated test cases or are testing the correct use cases. In terms of progress, some test cases remain	more defects leaking into subsequent testing phases, necessitating more extensive and ringrous testing efforts, insufficient testing coverage or slower	the fixes in the FAT environment, ensuring that these defects do not recur when FAT resumes, potential				reveals mixed results. Compared to last month, passed test cases increased 22% in the real-time environment (421 to 513) and 309% in the time travel		As mentioned
recodes assistantially and apareca.			unexecuted, and not all defects have been resolved as the project	extensive and rigorous testing efforts. Insufficient testing coverage or slowe than-anticipated progress throughout the project lifecycle increases the risk	defect rediscovery. NOT COMPLETED -DHS should request that the ASI				environment (42 to 172). However, failed test cases remained relatively		previously, eWorldES
			commences System Integration Testing (SIT). The ASI has plans to complete the INT exit criteria by June 16, 2023, about 2 weeks after SIT begins.	of encountering significant delays, extensions, or the introduction of defects into the production environment during the final testing stage. known as	(Unit, INT) to capture defects that rolled into SIT (09/26/2024) CLOSED - The				stable in real-time and rose 51% in the time travel environment (106 to 160). As of September 25, 2024, DHS testers identified 948 unique defects,		delivered a simplified RTM to DHS to enter
			and a vegitis.	Final Acceptance Testing (FAT).	ASI should determine the root cause of the failure to identify simple defects				excluding duplicates and user errors. Notably, 382 defects (28%) remain		into FAT in order to
					in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering UAT/FAT (Closed 4/30/2024) NOT				open and unresolved, with a concerning severity breakdown consisting of 1 critical, 102 high, 197 medium, and 78 low-severity issues. This month		meet the requirements Go FAT criteria. In
					COMPLETED - The Project team reviews the SIT exit criteria and revises them				marked the first occurrence of critical-severity defects, with 5 emerging in a		terms of the SIRT, this
					as needed to ensure UAT/FAT begins with the best system possible.				single day, prompting IVV team concern given the advanced stage of FAT testing. The delayed go-live dates and ongoing testing challenges may		is deliverable is not a criteria for entering
					144-4				compromise project timelines, increase defect resolution efforts, elevate		into FAT. Please
									risk levels, and require additional resources. IVV recommends an intensified focus on defect resolution, testing efficiency, and risk mitigation to ensure		confirm with DHS. 05/14/2024
									project success. 8/30/2024 - As of August 29, 2024, 29% of the defects		
									identified during FAT, totaling 313 out of 1056, remain open and unresolved. The breakdown of these unresolved defects by severity is		Why is this still red? It is very clear that we
									concerning, with 72 high-severity, 150 medium-severity, and 91 low-severit	Y	have full coverage of
									issues. Notably, the number of unresolved defects has increased, and the count of high-severity defects has doubled. With BES pilot planned to start		all the functionality and that we are going
									next month the IVV team remain concerned about the potential delays in		to make it to FAT. This
									testing and the project schedule. This trend warrants attention to ensure timely resolution of these defects and mitigate any impact on the project		should be in yellow for monitoring.
									timeline. 7/31/2024 - DHS Testers have logged 453 defects (excluding		04/10/2024 -
82 The lack of technical documentation may Heath,	h Dustin Finding -	4/27/2023 Security and	In April, the ASI/DHS system security plan (SSP) authors began writing	Once the system architecture and design have been completed, the SSP	NEW - Begin monthly Plan of Action and Milestone update meetings Price	or to the start of 4	5 High	Open	duplicates or those determined not to be defects, such as user error! in the 9/26/2024 - In September, the ASI completed the updates to the System		All test scripts for
lead to incorrect implementation statements	Issue	Privacy	implementation statements. Currently, the technical documentation	authors may need to edit or rewrite implementation statements. A full draft	between DHS Security and the ASI Security teams to inform each other of progress and updates made against each POAM. OPEN - Determine when ass	third-party			Security Plan (SSP) Appendix A, specific to the Secure Enclave and IRS		09/9/2024
or delay the System Security Plan			supporting the SSP is unavailable, outdated, or in a draft form. During April, decisions on what tools support the SSP controls are still being decided on	of the SSP is scheduled to be published August 15th, 2023, and the final SSP (ready for federal partner review) is scheduled for September 15, 2023. The	progress and updates made against each POAM. OPEN - Determine when ass documentation will be created updated and available for the SSP authors -	essment.			Federal Tax Information Requirements. A POAM (Plan of Action and Milestone) is tracking updates to the main body of the SSP. The ASI has also		SSA accepted DHS plan for training in Sept 9
			Implementation statements are currently being written from the perspective	SSP is a large technical document with hundreds of controls and control	Collaborate and communicate with SSP authors about when reliable and				stabilized the Tenable Nessus scans, which scan for uninerabilities and		meeting, so this
			of how the system should be designed from the SSP author's perspective instead of how the system is actually designed. The SSP authors need to	enhancements, and each one requires an implementation statement of how the control or enhancement has been met.	correct documentation will be available. COMPLETE - Determine when the infrastructure design baseline will be completed. (06/30/2024) - Perform a				configuration compliance of the servers that host BES. DHS has begun implementing the Social Security Administration (SSA) security awareness		should be reflected in September report.
			know and use documentation such as System Architecture and Design,	the control of emissioning has been med.	full review of all draft SSP controls for content and accuracy prior to the				training and collecting compliance evidence to submit to the SSA. This		Also, need to
			network topology, dataflow, ports and protocols, tools used for logging, etc.		start of the Independent Security Controls Assessment of BES and submission of the SSP package to federal regulators. This will allow the SSP				remediation of a 2021 SSA POAM is expected to allow BES access to SSA data. 8/29/2024 - Through August, the ASI has continued authoring		determine what resources will be used
					authors to update controls with changes from Design through				procedure documentation that supports the SSP. PCG completed the		and final process for
					Implementation. (9/26/2024)				independent third-party assessment and delivered a draft report. The assessment found 34 critical, 204 high, 456 moderate, and 78 low findings.		addressing the missing documentation. Might
									DHS and the ASI also responded to requests for evidence from the Social		want to have a risk for
									Security Administration (SSA) for their assessment. The SSA is pending evidence of SSA-specific security awareness training. Therefore, the SSA has		gap in Security support from DHS since Jack
									not yet released its final report. The ASI continued to update IRS-specific		has left.
									controls in Appendix A before the IRS assessment, which is expected near the end of December 2024. Also, the ASI has been deploying scanning		
									agents to system hosts to alleviate vulnerability and compliance scanning		06/14/2024
									Issues. 7/25/2024 The ASI stood up the production environment on July 8th allowing the BES Independent Security Assessment penetration testing team	i,	Feedback already
									to gain access and start the four-week period of testing the BES system. The	1	provided by David
									ASI participated in interviews with the BES Independent Security Assessmen assessors. Additional interviews will continue into August. The ASI is	t	Rolla at May pre-meet. "My concern with the
									internally reviewing the Disaster Recovery (DR) plan before delivering it to		Security & Privacy
									DHS. However, this DR plan is unavailable for the current security assessment and should be available and tested prior to another assessment		slide is that there is no context provided
	Michael Finding -	6/30/2022 Configuration and	d ASI had previously reported development activities have been slowed as	If the ASI is unable to achieve a velocity that enables them to meet planned	OPEN • ASI effectively track and regularly provide DHS (potentially via the Imm	mediate 3	3 Med	Open	9/26/24 - The ASI has recently taken steps to increase the code quality and		
impacted the project schedule and delayed	Issue	Development	they have been unable to achieve and/or maintain their expected	milestones, schedule delays may lead to a delayed system go-live date. Failure to achieve a level of accuracy in estimating development tasks could	weekly DDI status meeting) with an accurate velocity (e.g., story points per				productivity of their development team by adding senior development resources including a development quality lead and a new development		09/09/2024 Vic confirmed that 50
80-11/6			development velocity. Previously, the development team was challenged with accurately estimating development task level of effort (i.e., story	lead to a project schedule that is flawed and unrealistic. Previously, DHS	consistently reflected in the project schedule • ASI regularly report				manager. They hope to refocus the development team to be more		developers have been
			points) and the project has been challenged with producing a project	had indicated, and IVV agreed, that some of these delays were due to some	estimated story points for the total remaining project work to reach go-live				disciplined in their coding practices and unit testing so as to reduce coding		added to project.
			schedule that accurately reflects realistic timelines (see Finding #74). The ASI continues to be challenged with finding qualified resources in a timely	ASI BAs lacking the expertise required to create optimal designs and system specifications that developers could consume without requiring extensive	should consider enhancing the depth of developer unit testing. COMPLETE				defects. The ASI has reported they currently have 84 developers (37 off- shore and some part-time) working on BES and plan to add 50 more off-		
			manner.	clarification from the ASI BA/SA team. DHS and IVV observed instances	CLOSED • DHS request the ASI strategically add the right project team				shore developers at some point in order to expedite development. The ASI		05/11/2024
				where ASI BAs/SAs have presented less than optimal designs and left it to DHS (who may lack software or UI design expertise) to improve, which has	resources may not be as effective as staffing additional expert-level				has acknowledged that coding defects have hampered the projects productivity, created project delays, and frustrated the DHS testing team		As discussed at pre-
				contributed to unproductive design sessions (see Finding #61). It remains unclear if scope creep has contributed to these delays.	development, analysis, and other resources that can lead and mentor junior				given the volume of defects they needed to report and document. It		meet, the
				uncrear if scope creep has contributed to these delays.	resources. • ASI reviews the development process and identifies and mitigates the challenges preventing them from incorporating Epic demo				remains unclear how quickly newly added developers will be able to get up to speed and how quickly they can be productive enough to make a		development team has been primarily focused
					mitigates the challenges preventing them from incorporating Epic demo activities into the project schedule. (9/29/23 - ASI will not be doing this,				measurable, positive impact on the pace of development. As of the last ASI		on fixing BES 1.0 defects DDI work for
					with DHS approval) ASI consider taking steps to increase code quality, including enhancing the depth of developer unit testing, tracking and				status report, there are 376 unresolved defects (104 high criticality), despitu their best efforts to bring that number down. The ASI will utilize the		defects. DDI work for BES 1.1 and 1.2 are
					proactively preventing leakage, and enforcing effective coding standards				recently announced 2-week FAT pause to resolve defects. 08/22/24 - The		forthcoming.
					and good governance.				ASI has initiated a Go-to-Green (G2G) Plan to mitigate project delays, including development delays that could impact go-live milestones. One of		
									the G2G plan action items is to "Staff with additional developers"; with the		
									ASI confirming they will be adding 50 additional offshore developers. It remains unclear how quickly newly added developers will be able to get up		
									to speed and how quickly they can be productive enough to make a		
									measurable, positive impact on the pace of development. Additionally, IVV i not aware whether current velocity, capacity, and burndown tracking will	s	
									allow the project to determine how many additional developers are needed		
									if any, to avoid further delays. 07/26/24 - The ASI has recently reported additional development delays that could put go-live milestones at risk. The		
									The second service of the second out we need the second at risk. The		

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Section Sect	74 A RES Project schedule based on inaccurate Molina Brad Finding		DHS and the ASI have tried multiple times to rework the schedule with	If estimates for project schedule activities are not accurate this can lead to	OPEN - Monitor evaluate and revise scheduling estimates for accuracy	Immediate			09/30/2024 - The project did not meet the Pilot Go Live date as the	Chemic Comments	versoor comments
Part							3 4 1181	Open			
Part		Monagement									
An in part											09/9/2024
Part	and a late go-live.		Previous IV&V findings focused on specific schedule components such as						revising the schedule to align with the new project direction (combining		Numbr of defects,
Part	-		resource management and critical path analysis, all of which were		teams to evaluate the accuracy of development velocity and adjust				releases) and including the scope for change requests and a crucial		phased in epics, also
Part			addressed and closed.		accordingly to reduce risk in the revised BES project schedule. •ASI provides				functionality list from DHS. Per prior recommendations, the ASI and DHS		outstanding CR. CR
Part					Burndown charts that provide visibility into the remaining work ASI				should conduct a root cause analysis and incorporate the results in the new		pushing schedule out
Part											beyond Sept. Phased
Particular					remaining development workASI conduct a Root Cause Analysis (RCA) with	h			coincide with FAT testing and related defect resolution, has created risk for		epics should be in thi
Part					DHS and IVV to determine why the BES project continues to experience				completing Epics in time for comprehensive INT, SIT and FAT testing prior to		week. Optimistic for
Part											
Report Filters and Property of the Company of the C					project deliverables can be managed. (2/28/2023 - complete) ASI host a				testing, causing issues for workers completing their required work. DHS has		
A PROPERIOR INTERCENTATION OF THE PROPERIOR INTERCENTATION OF											
Part									be delayed. As of the end of the reporting period, the ASI and DHS are		
Part											
Part											
Res						h			on defect resolution and new development work for BES 1.1. A few key		fully approved.
Separate leaves and the second process of th											
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In such and such designation of the contribution of the contributi		Toy 20/2021 System Design					2 2 Low	Open			11/17/2022
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A Part Par	action to selectore/cost impacts.										
which the fire the companies of the comp											
Part			and implement the planned complex environment remain unclear.								
Part				maintenance and operations challenges as system changes can note the	concepts to assure intrastructure components work as expected. • Asi				und consul API dateway and Private Service Connect. The Asi Intends to		schedule, the DK plan
Part											
And the configuration recognised in the configuration recognis					unexpected delays that could delay project milestones and the critical patit.						
Part									structured approach for building out and testing these components and thou		Of the year, Kenninger
A PRINCE AND PRINCE AN											
se plane le par le partie de la				Cloud failed to clearly expensive a change that led to failure in another							2024.
Part of the proper part of part of the proper part of part of the proper part of part of the part of p											10/21/2022
Apply 100 memory memory from the part of produced from the color of produced from the part of pr											
professional profe				Azuro). IMBV remains concerned that this could lead to failures at critical points in the project (including post-go live production failures) that could be difficult to resolve and lead to project disruption. If DHS intends to eventually reduce MBO outsourcing costs turning over M&O tasks to State employees, they could face challenges supporting tools they may not be							
Part											
ently whete 400 outstanding seams targed with the 400 outstanding seam									(CR) to the decime of the Secure Feeling (the addition of relet). In the CCR it		
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special properties an agreement of the first properties and agreement											
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reduce the effectiveness of defice resolution progress but been market borousd establishing. Off processes and governous. Seeking for those (see, 2008), and sublifying or the Cell progress. Seeking for those (see, 2008), and sublifying or the Cell progress. Seeking for those (see, 2008), and sublifying or the Cell progress. Seeking for those (see, 2008), and sublifying or the Cell progress. Seeking for those (see, 2008), and sublifying or the Cell progress. Seeking for those (see, 2008), and sublifying or the Cell progress. Seeking for those (see, 2008), and sublifying or the Cell progress. Seeking for those (see, 2008), and sublifying or the Cell progress of the Cell progress of the Cell progress. Seeking for those (see, 2008), and sublifying or the Cell progress. Seeking for those (see, 2008), and sublifying or the Cell progress of the	could lead to development confusion and Risk	Development	Configuration Management Plan, however, it remains unclear if sufficient progress has been made toward establishing CM processes and governance, selecting CM tools (e.g., CMDB), and building out the CM infrastructure. The projects Security Plan has yet to be finalized which may include additional requirements or decisions that could impact CM. The project currently	ensures the BES is understood and works correctly. The BES solution e, includes tools that may provide a level of automation for Configuration ne Management that may reduce errors and should provide the project team with accurate, dynamic and timely information on some of the configuration items. However, it is critical that DHS/ASI agree to the full list of thems that are included in the configuration plan along with the details regarding the rest included in the configuration plan along with the details regarding the full.	in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DHS • ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track.				Configuration Management Plan (CMP) list of configuration items (Cls) and		
selecting Of Issol (e.g., CMOB), and building out the Uniforthicative. The May replice a selection of Institute with may include additional to the activities of the Configuration in the Max accusa, special part of the Configuration in the Max accusa, special part of the Configuration in the Max accusa, special part of the Configuration in the									CMP procedures by 9/20/24 but has since experienced some delays in		
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O). 9/28/3.3 The ASI gained DHS approval on the items that will be tracked Vic - We provided a											
and monitored as part of configuration management. I'W requested the list listing working on a											
last month and is waiting on the AS to respond, 8/31/23 - No material plan to implement.									last month and is waiting on the ASI to respond. 8/31/23 - No material		plan to implement.

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