

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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March 19, 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,

Douglas Murdock (Mar 20, 2024 11:01 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 – 29, 2024

Submitted: March 14, 2024



Overview

- Executive Summary
- IV&V Findings and Recommendations
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Executive Summary

Executive Summary



The ASI published a draft "Go-to-Green" Plan this month, which proposed a six-month delay to implement BES. It also documented the root causes of the delay and presented a new approach to complete the Project within the extended timeline. Main points in the draft Go-to-Green Plan include:

- The ASI will assign more experienced staff to resolve critical defects (to address code quality issues resulting in defects, schedule delays to conduct the Sprint and Epic demos to DHS, and the completion of Integration Testing).
- The ASI will add developers to their team to reduce the development time of integrating Hana/BES (The scope is larger than expected due to the realization that the solution requires integration rather than a data interface as originally planned).
- The ASI also proposed a phased implementation approach that will offer the BES functionality in three major releases:
 - **Phase I** The Pilot Rollout will contain the revised core BES functionality agreed to by DHS and the ASI. The Phase I Pilot is planned for July 22, 2024, to October 19, 2024, with Go-Live on October 28, 2024.
 - **Phase II** The Statewide Rollout will add reports and interfaces to the functionality provided in the Pilot Rollout. The Phase II functionality is included in the October 28, 2024, Go-Live.
 - **Phase III** The Post Statewide Rollout will add the security Enclave and related IRS and SSA interfaces to the Statewide Rollout. The Phase III Go-Live is planned for February 24. 2025.

The phased approach may add complexity to the BES implementation on a project that is realizing disconnects in requirements and design. Additionally, this approach may require additional staff and processes to manage user training, defect identification and resolution, any additional required infrastructure, and communication regarding workarounds. As DHS and the ASI finalize the revisions to the approach and schedule, IV&V will evaluate with the project team new potential risks and/or adjustments to the existing risks and issues.

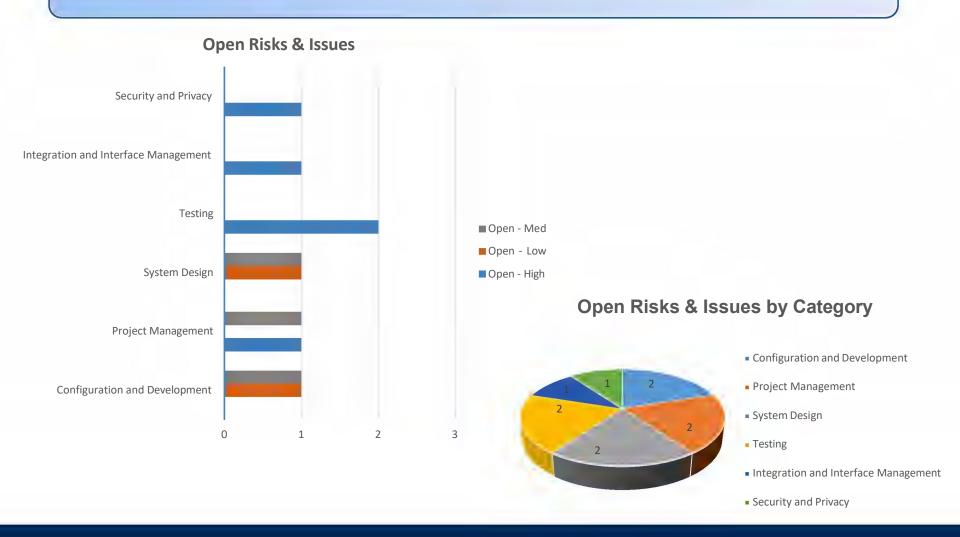
Executive Summary



Dec	Jan	Feb	Category	IV&V Observations
(<u>M</u>)	Œ	E	Project Management	The ASI published a draft Go-to-Green Plan, currently under review by DHS, FNS, and IV&V. The Plan may increase implementation complexity by separating key functionality into three Roll-out Phases.
M	M		System Design	The ASI was focused on developing the draft Go-to-Green Plan so there were minimal design activities in this reporting period. However, DHS identified new issues with eligibility design, meaning the ASI should include slack in the schedule to mitigate future delays.
(<u>M</u>)	M	(<u>M</u>)	Configuration and Development	The draft Go-to-Green Plan highlighted code quality issues as a root cause of the development and schedule delays. The ASI reported the draft Go-to-Green Plan addresses these issues going forward.
(<u>M</u>)	Н	H	Integration and Interface Management	Issues within the Integration and Interface Management category are causing schedule delays. The ASI and DHS will need to resolve these issues and maintain a high level of visibility into the detailed interface activities to avoid a future schedule or functionality delay.
Н	Н	Н	Testing	Progress continued during the reporting period to complete the Release 0.12 System Integration Testing (SIT) test scripts; a majority of the test scripts remain incomplete. If DHS approves the proposed multiple phases of implementation, the complexity of testing while implementing, along with defect resolution, adds additional coordination to all aspects of this project.
H	H	Н	Security and Privacy	The delivery date for the outstanding technical documentation needed for the System Security Plan (SSP) was delayed from the end of February into early March. As the technical documentation and 3rd Party Security Assessment must be completed before the Pilot, the security effort remains a risk.

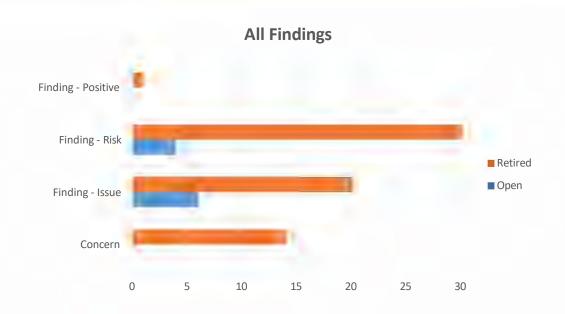


As of the February 2024 reporting period, PCG is tracking 10 open findings (4 risks, 6 issues) and has retired a total of 74 findings. Of the 10 open findings, 5 are High, 3 are Medium, and 2 are Low.





The following figure provides a breakdown of the 84 IV&V findings (positive, risks, issues, concerns) by status (open, retired).





Findings Retired During the Reporting Period

#	Finding	Category
Ī	Risk – Changes required to incorporate the Federal Tax Offset Program (TOP) interface within the Secure Enclave may not occur before the BES Pilot.	
90	DHS and the ASI determined that the TOP files do not need to be routed to the Secure Enclave. The TOP address information will be in the Secure Enclave, with the remaining TOP data integrated into BES as designed. In addition, the ASI draft Go-to-Green plan changed the implementation of the interface from the initial pilot to the statewide release, allowing the ASI more time to develop and test this interface, therefore this finding is retired.	Integration and Interface Management



Preliminary Concerns Investigated During the Reporting Period





Findings Opened During the Reporting Period





Project Management

#	Key Findings	Criticality Rating
74	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. The Project has experienced many delays, the most recent of which was a four-week delay announced the end of January with the draft Go-to-Green Plan adding another six months.	

Recommendations	
Monitor, evaluate and revise scheduling estimates for accuracy.	In Process
 ASI provide details on how Velocity measures were used to develop estimations for development effort in new version of DDI schedule 	Incomplete
 ASI conduct a Root Cause Analysis (RCA) with DHS and IV&V to determine why the BES Project Schedule continues to be impacted by unanticipated work. 	Not Started
 ASI Project Management work with development teams to confirm the accuracy of Velocity to reduce risk in the new project schedules. 	Not Started



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	The ASI drafted a Go-to-Green Plan that includes an October 2024 Go-Live date, with several features to be released after the Pilot. Implementing the functionality of a core solution not tested in a real-world Pilot environment may lead to unexpected issues and bugs. IV&V remains concerned that user expectations will not be fully met as the go-live system will be missing functionality that could be important to many users.	М

Recommendations	Progress
 Increase OCM efforts to effectively manage user, general public, and legislative expectations for 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
• DHS carefully assesses whether the advantages of a timely release outweigh the advantages of going live with a system that provides more comprehensive functionality, requires fewer workarounds, and increases user satisfaction.	In process



Integration and Interface Management

#	Key Findings	Criticality Rating
63	Issue – The lack of early planning and coordination with interface partners may result in schedule delays. The MOU/MOAs were completed and the Interface Control Documents (ICD) are updated. The interface testing team did not produce the Testing Plan on February 16th as specified in the draft Go-to-Green Plan.	

Recommendations	
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



Configuration and Development

Key Findings

Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution.

No material update in the reporting period.

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
	Issue – Development delays could negatively impact the project schedule and delay go-live.	
	The ASI reported additional delays that will push out Go-Live to October 2024, based on the draft Go-to-Green Plan. The ASI reported the Root Causes of this delay include:	
	Excessive defects	
80	 Lack of Code quality with downstream impacts to include additional defects and critical blockers causing delays with Sprint and Epic demos and the completion of Integration Testing 	M
	 New requirements were identified for both the Hana/BES interface and Secure Enclave. 	
	The draft Go-to-Green plan includes reorganizing the development team to have more experienced developers focus on critical defects and consistent enforcement of development standards across all development teams and other process improvements.	

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. 	Not started	



System Design

#	Key Findings	Criticality Rating
73	Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts. No material update in the reporting period.	•

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



System Design

#	Key Findings	Criticality Rating
	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.	
86	One demo (Epic Demo 211) was held in February as the ASI focused on developing a Go-to-Green Plan for the Project. DHS also raised concerns in Readiness meetings regarding a gap in design where eligibility is not forced to run when critical benefit data is modified on a case – which could also point to a gap in collaboration on key design decisions.	М

Recommendations	Progress
 Include a wide enough audience in all design and demo sessions to validate FNS and DHS functional and technical requirements and system usability. 	In Process
 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. 	Not Started
 Perform comprehensive (demo all requirements) review during Epic demos, not just the items that were added/updated, allowing DHS to provide early feedback on possible issues/gaps that might not be apparent when focusing on specific functionality. 	In Process
 ASI and DHS re-evaluate the effectiveness of the recorded Sprint review process to ensure that designs align with DHS expectations. 	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	Entry into Release 12 SIT is delayed, the ASI is currently rescheduling the start date. A complete Release 12 SIT script package continues to be developed with 301 test scripts approved and ready for SIT and 886 test scripts pending review or in draft status. With a large number of test scripts pending and an undetermined SIT entry date, the risk of further delays remains high. Without the continuation of the comprehensive peer review of SIT test scripts, the risk of testing gaps remains high.	•

Recommendations	Progress
Monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested.	In process
 The project team reviews the SIT Entry and Exit criteria and revises them as needed to ensure UAT/FAT begins with the best system possible. 	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 	In process



Testing

#	Key Findings	Criticality Rating
	Issue – The current mitigation approach to complete the development of the remaining R0.12 Epics is condensed and aggressive and may increase the likelihood of schedule delays, quality issues, and a higher volume of testing defects.	
89	During the February 21, 2024, Weekly Project Status Meeting and February 28, 2024, BES Schedule Review Meeting, the ASI introduced the draft Go-to-Green Plan. However, edits to the Plan continue and final DHS approval is outstanding. The draft Go-to-Green Plan indicates an ongoing overlap of development and testing activities as functionality will be implemented during pilot and statewide rollout. System Development Best Practices recommend against overlapping testing phases because of the amount of rework and instability this causes to the project team and solution.	В

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 release a detailed schedule of events, including development completion, INT start, SIT start for each epic covered in the mitigation plan.	In process	
The ASI should evaluate if Epics entering SIT late might require retesting functionality that had already been tested	In process	
The plan to complete BES implementation does not include overlapping testing phases	In process	



Security and Privacy

#	Key Findings	Criticality Rating
	Risk – The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan (SSP). The security staff resolved issues in the Google Assured Workloads services for the Secure Enclave. The	
82	ASI continues to remediate findings from the vulnerability and compliance scans on the environment and work through issues related to the Tenable Nessus credentialed scanning. The security team rescheduled the due dates for the supporting security and privacy documentation for the SSP and intends to be completed by March 4th, 2024. Since there is a proposed schedule change in the Project's Go-To-Green Plan, this finding remains a risk instead of being elevated to a realized issue.	•

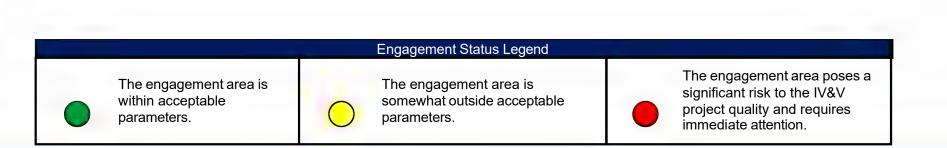
Recommendations		Progress
•	Determine when the infrastructure design baseline will be completed.	In process
•	Determine when documentation will be created, updated, and available for the SSP authors.	In process
•	Collaborate and communicate with SSP authors about when reliable and correct documentation will be available.	In process
•	Perform a full review of all SSP controls for content and accuracy that have been written as drafts 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.	In process



IV&V Engagement Status



IV&V Engagement Area	Dec	Jan	Feb	Comments
IV&V Budget				
IV&V Schedule				DHS and PCG are discussing the extension of the IV&V contract that currently ends in April 2024.
IV&V Deliverables				PCG submitted the final January IV&V Monthly Status Report.
IV&V Staffing				Erik Torring is departing the IV&V team and Donna Hackett has been presented to DHS as his replacement.
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 contracts and contract amendments documentation
- Planned IV&V activities for the March reporting period:
 - Ongoing Observe BES Design and Development sessions as scheduled
 - Ongoing Observe Bi-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 Project Schedule - BES 2023 Primary	02/28/2024,	N/A
BI-5 Project Schedule - BES 2023 DDI	02/28/2024	N/A
BM-09 BES M&O Migration Plan	2/12/2024	N/A
BI-29 Roll Out Plan DED	2/9/2024	N/A

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
UAT Testing Dashboard	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

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. IV&V Team Meeting 2/1/2024, 2/5/2024, 2/8/2024, 2/12/2024, 2/15/2024, 2/20/2024, 2/22/2024, 2/26/2024, 2/29/2024
- 2. IV&V September 2023 Pre-Draft MSR Findings Review 2/6/2024
- 3. HI DHS BES January Draft IV&V Report Review 2/13/2024
- 4. Bi-Weekly DHS and IV&V Touch Base 2/6/2024, 2/13/2024
- 5. Weekly BES Infrastructure meeting 2/2/2024, 2/9/2024, 2/16/2024, 2/23/2024
- 6. DHS/IV&V Check-in 2/1/2024, 2/29/2024
- 7. Weekly Client BES 2023 Project Status Meeting 2/21/2024, 2/28/2024
- 8. Security Touchpoint 2/7/2024, 2/14/2024, 2/21/2024, 2/28/2024
- 9. Weekly Data Conversion Workgroup 2/1/2024,
- 10. PMO End of Day Huddle 2/1/2024, 2/29/2024
- 11. (External Epic demo) Epic 211 Disability and Good Cause 2/29/2024
- 12. (External) Weekly Interfaces Touchpoint 2/5/2024, 2/12/2024, 2/26/2024
- 13. (External) Readiness Working Group Meeting 2/6/2024, 2/13/2024, 2/20/2024, 2/27/2024
- 14. (External) Bi-Weekly Client BES 2023 Schedule Review/Status 2/28/2024
- 15. (External) Bi-weekly BES CCB Meeting 2/21/2024
- 16. (External) BES: FNS Connect 2/1/2024, 2/8/2024, 2/22/2024, 2/29/2024
- 17. (External) Testing Benefit Files from BES and HAWI- 2/22/2024
- 18. (External) Review Reports with MSO/R&S-2/16/2024
- 19. (External) BM-09 Deliverable Discussion with IV&V-2/15/2024
- 20. FAT Touchpoint Meeting with IM 2/7/2024
- 21. (External-Epic Demo) Epic 247 Correspondence Priority 2, Set #2- 2/2/2024
- 22. (External) Testing DOTAX files and Processing Schedule 2/12/2024
- 23. (External) BI-29 Roll Out Plan DED Deliverable Response Review Meeting 2/9/2024





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.
М	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.
•	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





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



Solutions that Motter

	Finding	Identified					Analyst	Finding		_
9 Title 89 The current approach to complete	Reporter Type Torring, Erik Finding -	Date Category 12/21/2023 Testing	Observation Ten of the Epics scheduled for completion before Release 0.12 SIT will not	Significance Overlanging development and testing introduces potential available irruse	Recommendation - Develop Contingency Plans if the mitigation plan continues to see slippage	Event Horizon Impact Probab	bility Priority 5 High	Status Open	Status Update Client Comments 2/22/2024 - During the February 21, 2024, Weekly Project Status Meeting	Vendor Comments
development of the remaining PO 12 enior in		12/21/2025 Testing	he ready. To sunid SIT delays: the current sentroach is to begin SIT without	locufficient INT may create gaps in SIT leading to further quality issues. This	affaction INT and SIT . The ASI provides comprehensive INT secults and SIT	NOW 4	5 rigii	Open	and Sahruany 29 2024 BES Schadula Review Meating the ASI introduced	
condensed and aggressive and may increase the likelihood of schedule delays, quality	e		the 10 Epics and test them as they are completed. Additionally, Release 0.1 development that was extended two weeks from the scheduled end date it	2 may increase the risk of significant delays or introduce defects into the	scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution The ASI release a detailed schedule of events, including				and detailed the draft Go-to-Green plan. However, edits to the plan continue	
the likelihood of schedule delays, quality issues, and higher volume of testing defects.			development that was extended two weeks from the scheduled end date if been extended for another ten business days.	has production environment.	execution The ASI release a detailed schedule of events, including development completion, INT start, and SIT start for each epic covered in the				and detailed the draft Go to Green plan. However, edits to the plan continue and detailed the draft Go to Green plan. However, edits to the plan continue and final DHS approval is outstanding. The draft Go-to-Green plan indicates an onegoing overlapp of development acting activities as functionally will	
issues, and ingree volume of testing devects.	•		Dell'excluded for another tell obstitute days.		mitigation plan The ASI should evaluate if Epics entering SIT late might				be phased into pilot and statewide rollout. System Development Best	
					mitigation plan The ASI should evaluate if Epics entering SIT late might require retesting functionality that had already been tested The plan to				be phased into pilot and statewide rollout. System Development Best Practices recommend no testing phases be overlapped because of the	
					complete BES implementation does not include overlapping testing phases					
									solution. 1/31/2024 *To mitigate the INT and ST overlap and incomplete SIT test scripts, the ASI moved the start of SIT to February 2nd, with	
									development delays and code quality issues led to adding 2 integration testing sprints, further extending integration testing. Additionally, on	
									testing sprints, further extending integration testing. Additionally, on January 31, 2024, the ASI announced the delay of the February 2nd SIT entry	
									date and standed that a new migration approach to meet the August Go-Live date was under development. IV&V has updated this finding to an "issue"	
									date was under development. IV&V has updated this finding to an "Issue"	
88 Implementing a Core Solution for go-live	Fors, Michael Finding -	11/30/2023 Project	The project has elected to implement a Core Solution at go-live to meet the	ir Going live with a limited version of a software product entails inherent risks.	Increase OCM efforts to effectively manage user, general public, and	Now 3	3 Med	Open	and the Criticality Rating to 'High' 02/29/24 - The ASI drafted a Go to-Green plan that includes an October	
carries inherent risks that may impact	Risk	Management	stated timeline. This version is generally referred to in Agile software	such as potential challenges in securing user buy-in. This can result in limited user adoption, user dissatisfaction, and negative publicity,	legislative expectations for the Core Solution approach. • Prioritize feedback				2024 Go-Live date, with several features to be released after Pilot.	12/15/2023 - Abov
overall project success and reduce user adoption.			development as a Minimum Viable Product (MVP), which is a simplified	limited user adoption, user dissatisfaction, and negative publicity, of particularly considering the financial investment made for the delivery of	from users and FNS to ensure the Core Solution meets their core needs and so users are clear on what features they are, and are not, getting in the				Implementing the functionality of a core solution not tested in a real-world Pilot environment may lead to unexpected issues and bugs. IVV remains	already addressed I DHS/Joe
аворові.			users 2) can accelerate the timeline for go-live, and 3) allows the project to	i mited functionality. A compressed timeline may compromise the quality of	released product • Actively monitor, assess, and address notential				Find cerest content in any least to unexpected assure and buggs. The terminal concerned that user expectations will not be fully met as the en-like system.	Campos Ensure
			get real-world feedback from users to refine future product development.	o limited functionality. A compressed timeline may compromise the quality of designs, user interface sophistication, and lead to an uptick in software bugs	challenges throughout the core solution development process including				concerned that user expectations will not be fully met as the go-live system will be missing functionality that could be important to many users.	recommendations
				and suboptimal code. Further, this approach may expose the project to regulatory compliance risks, such as last-minute objections from regulatory	code quality, cutting scope to meet development milestones, insufficient user validation of demonstrated functionality, and fully defined				01/23/23 - The ASI recently transitioned the OCM leadership role to a new resource. OCM activities will be crucial in reducing the risk associated with	reflect "In Progres
				bodies like FNS, which could find certain system elements non-compliant	workarounds to accommodate for the missing functionality. • DHS carefully				implementing the Core Solution and effectively managing user, public, and	III PIOCESS .
				with their standards and delay the go-live date. Misalignment between	accord whether the advantages of a timely release outwards the advantage				legislative expectations. The ASI has stated they do not expect this transition	
				stakeholder expectations and the Core Solution may lead to dissatisfaction or a lack of support for the project and could negatively impact future	of going live with a system that provides more comprehensive functionality, requires fewer workarounds, and increases user satisfaction.				to negatively impact the project and have noted some potential improvements. 12/31/23 - Delays in some planned activities (e.g., epic	
				project funding requests. Implementing a limited Core Solution typically						
				requires the customer to implement multiple workarounds until automater features can be built into the system. Users could become impatient if these	ı				causing milestones to be missed. I/V remains concerned about potential quality impacts due to the need to accelerate efforts to compensate for	
				features can be built into the system. Users could become impatient if these features are further delayed when buz fixes and other features take					quality impacts due to the need to accelerate efforts to compensate for missed milestones. Delays in some planned activities (e.e., epic demos.	
				reasures are turtner delayed when bug fixes and other features take precedence. Others may lose confidence that the features or system					missed milestones. Delays in some planned activities (e.g., epic demos, interface designs) and the development of the secure enclave is causing	
				precedence. Others may lose confidence that the features or system improvements will ever be implemented. Going live with a solution that is	i				milestones to be missed. IVV remains concerned about potential quality	
				missing functionality that stakeholders were expecting typically requires ar					impacts due to the need to accelerate efforts to compensate for missed	
				increase in OCM efforts both by the ASI and DHS staff to temper stakeholders' reactions to a system with limited functionality.					miestones.	
		0.00								,
86 Limited collaboration between the ASI and DHS in the design process could lead to BPS	Molina, Brad Finding -	8/1/2023 System Design	During the UAT process for release 11, there has been a high level of concerns raised by the DHS testers regarding the usability of the BES system	A significant amount of money and DHS resource time have been invested in	 Include a wide enough audience in all design and demo sessions to validate. No ENS and DHS functional and technical requirements and system usability. 	NOW 4	3 Med	Open	02/29/2024 - One demo (Epic Demo 211) was held in February as the ASI 10/11/2023 Jessica - Our SMEs are providing their feedback. This is one focused on developing a Gosto-Green Plan for the Project DHS also paled	a
DHS in the design process could lead to BES usability issues and functionality gaps in the	nous!		concerns raised by the DHS testers regarding the usability or 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 	Perform Sprint and Epic demos in alignment with development sprint				focused on developing a Go-to-Green Plan for the Project. DHS also raised the items that I clarified with IV&V, that there are feedback given, no concerns in Readiness meetings regarding a gap in design where eligibility is feedback means design is 0.4. Ired an email back from Ioe F. that M&V world forced to run when critical benefit data is modified on a size—which wants to meet with our reviewer to solidate this.	10/31/2023 -
applications and not meeting critical									not forced to run when critical benefit data is modified on a case – which wants to meet with our reviewer to validate this.	Vic - Conversations
business needs for DHS and State clients.			defect reporting from the UAT process, a large majority of the defects are	improved usability from current systems. Should the solution fall short of a expectations, there may be challenges in DHS staff adoption; lack of	early feedback on work products Perform comprehensive (demo all requirements) review during Epic demos, not just the items that were				could also point to a gap in collaboration on key design decisions. 01/31/2024 - DHS viewed Sprint demos for Epics 247 and 284 on January 9,	with BES PMO about live demos. Will ke
			partially build system, a significant amount of decian defects was	expectations, there may be challenges in DHS staff adoption; lack of confidence in the solution providing the accurate information posted to	requirements) review during Epic demos, not just the items that were added/updated, allowing DHS to provide early feedback on possible				2024, where several concerns/issues were raised, resulting in necessary but	as recorded demos
			partially build system, a significant amount of design defects was attributable to functionality developed for Release 11.	confidence in the solution providing the accurate information needed to 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	issues/gaps that might not be apparent when focusing on specific functionality ASI and DHS re-evaluate the effectiveness of the recorded				2024, where several concerns/issues were raised, resulting in necessary bug fixes. User experience issues that should have been raised during the sprint	but we addressed
				same level of needed services to clients, resulting in bad publicity for DHS and the state.	functionality ASI and DHS re-evaluate the effectiveness of the recorded				demos were brought up during the Epic Demo for Epic 240 (repayment	JF - open comment
				and the state.	Sprint review process to ensure that designs align with DHS expectations.				agreements), that the ASI is not considering at this time. As of the end of January, the ASI was developing a Go-to-Green Plan to mitigate several	Vic - after demo is complete, feedback
									delays, including demos. 12/31/2023 - DHS opened a new high-severity	and
									project risk, which then escalated to an issue, on December 4, 2023, since	acknowledgement.
									the spirit and epic demos will not be completed by the end of the Release 0.12 DDI phase. NV shares this concern, as issues discovered during the	Vic - for the next
										reporting period. W
									impacted egics obtained by substitution in the schedule of November, the ASI has nine Sprint demos to execute and all 28 Epic	reporting period. W want to keep the
									end of November, the ASI has nine Sprint demos to execute and all 28 Epic	feedback to the SM
									demos. Depending on the outcome, this could cause the ASI to extend development while testing is occurring or defer the functionality to post-	Policy and Function SMEs.
									Pilot, creating additional unplanned work for DHS. 10/31/2023 - IVV notes positive progress this month in that the DHS SMEs are providing more	We are getting off-
									positive progress this month in that the DHS SMEs are providing more	way comments.
									Redduck to McSi on the BES design. The DHS MM has requested Sprint demo process updates to ensure that DHS staff who provided feedback are	Nicole is finding comments from sta
									aware of the resolution of their comments. The ASI has also noted gaps in	that were not involv
									aware of the resolution of their comments. The ASI has also noted gaps in communication (design misunderstandings) between the ASI Business Analysts and DHS AMES. DHS SHIS kines waggested that communications	in detail.10/11/202
									Analysts and DHS SMEs. DHS SMEs have suggested that communications would be clearer if they were included in live demos. IV&V respectfully	
83 Gaps in test coverage and slower-than-	Torring, Erik Finding -	6/2/2023 Testing	After examining the Project's R11 QA Dashboards, R11 Traceability	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 The ASI should determine the root cause of the failure to identify	UAT 4	4 High	Open	would be cleated in your week microscope. We respect only 2/12/2024 — Entry into Release 129 ST is delayed, he ASI is currently rescheduling the start date. A complete Release 12 ST script package	Please reference
expected progress in testing may result in	Issue		Dashboards, and Test Repository, gaps in testing coverage may exist and th	e and cost-effective to address issues during the early testing stages. If there	simple defects in INT and SIT and implement effective improvement				rescheduling the start date. A complete Release 12 SIT script package	
schedule delays if subsequent test phases uncover a higher volume of defects and user	•		progress of testing might be lagging. Concerning testing coverage, it appear that not all enirs and use cases in R11 have associated test cases or are	rs is slow progress or incomplete testing in the early stages, it can result in more defects leaking into subsequent testing phases, necessitating more	processes to confirm early testing is adequate before entering UAT/FAT DHS and ASI monitor INT/SIT closely for both breadth and depth of testing to				continues to be developed with 301 test scripts approved and ready for ST and 886 test scripts pending review or in draft status. With a large number	12/15/2023 - The 5 that stared on 12/4
feedback than initially anticipated.			testing the correct use cases. In terms of progress, some test cases remain	extensive and rigorous testing efforts. Insufficient testing coverage or slower					and 886 test scripts pending row or in draft staws. With a large number of test scripts pending and an undetermined SIT entry date, the risk of	internal to eWorldE
			unexecuted, and not all defects have been resolved as the project	than-anticipated progress throughout the project lifecycle increases the risk	exit criteria and revises them as needed to ensure UAT/FAT begins with the				further delays remains high. Without the continuation of the comprehensive peer review of SIT test scripts, the risk of testing gaps remains high.	and not the officia
			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 	best system possible.				peer review of SIT test scripts, the risk of testing gaps remains high. 1/31/2024 - Due to development delays and testing defects, entry into SIT	start in January. Ti SIT that started is
			the INT exit Criteria by Julie 10, 2023, about 2 weeks after SIT begins.	Final Acceptance Testing (FAT).					has been delayed to an undetermined date. Approved and final SIT test	eWorldES internal
									scripts remain incomplete for twenty-five Epics. With the lack of a complete SIT script package before the SIT Go/No-go decision, the risk of introducing	testing to ensure already delivered
									SIT script package before the SIT Go/No-go decision, the risk of introducing	already delivered functionality is
									gaps in test coverage in SIT remains. 12/21/2023 - The ASI delivered the Bi- 20 (Release 0.12 BES Test Scenarios, Cases, and Scripts) to DHS for review	functionality is working appropriate
									and approval. However, 28 Epics did not include SIT test scripts, which the	10/31/2023 - Vic - F
									ASI proposed to provide as continuous updates when the data becomes available. This approach poses a risk to the Project as this deliverable	R12, DHS will be at
									available. This approach poses a risk to the Project as this deliverable informs DHS' go/no-go decision to start SIT testing. 11/30/2023 - During	to evaluate SIT test scripts in Jira.
									Movember, the ASI continued to create and underlying the SIT test cares. As	FAT planning meeti
									reported last month, until this is completed DHS cannot evaluate the test cases for full coverage of BES functionality and provide proper sign-off to	when Trisha is back
									enter SIT. While these concerns are still present, the neer review process	SIT entrance criteri well in these meeti
									implemented by the ASI has resulted in improved quality and completeness	Vic - overlap of INT
									of the test cases. There is additional concern related to the entry criteria for Release 12 SIT. SIT test cases, as part of Bill 20, are scheduled for completion	and SIT Testing
									Release 12 Str. Str test cases, as part of Billi20, are scheduled for completion on 12/18 but the schedule reflects a 12/4 start date for Str. DHS is reviewing	Will be testing everything that was
									SIT scripts as they are written, but the full magnitude of SIT test scripts will	nreviously done in
									be unclear until the delivery of BI-20 on 12/18. Scope for SIT includes retests	prior releases.
82 The lack of technical documentation may	Heath Durtin Eindin-	A/27/2022 Security and	In April, the ASI/DHS system security plan (SSP) authors began writing	Once the outen architecture and deries have been convoluted the PPS	- Determine when the infrastructure design baseline will be completed	Prior to the start of 5	4 High	Onen	of Release 0.11 functionality and defect corrections which is part of 02/29/2024 – The security staff resolved issues in the Google Assured	
ack or recrimical documentation may	Heath, Dustin Finding - ts Risk	-/21/2025 Security and Privacy	implementation statements. Currently, the technical documentation	authors may need to edit or rewrite implementation statements. A full draft	t Determine when documentation will be created, updated, and available for the	the third-party	- High	upen	02/29/2024 – The security staff resolved issues in the Google Assured Workloads services for the Secure Enclave. The ASI continues to remediate	1/12/2024 -
		,	supporting the SSP is unavailable, outdated, or in a draft form. During Apri	il, of the SSP is scheduled to be published August 15th, 2023, and the final SSF	t Determine when documentation will be created, updated, and available for the the SSP authors Collaborate and communicate with SSP authors about	assessment.			findings from the vulnerability and compliance scaps on the environment	
lead to incorrect implementation statements or delay the System Security Plan			decisions on what tools support the SSP controls are still being decided on.	. (ready for federal partner review) is scheduled for September 15, 2023. The ve SSP is a large technical document with hundreds of controls and control	when reliable and correct documentation will be available Perform a full				and work through issues related to the Tenable Nessus credentialed scanning. The security team rescheduled the due dates for the supporting	Progress should ref "In process". David
or delay the System Security Plan			Implementation statements are currently being written from the perspective of how the system should be designed from the SSP author's perspective	ve SSP is a large technical document with hundreds of controls and control enhancements, and each one requires an implementation statement of how	review or all 35P controls for content and accuracy that have been written as				scanning. The security team rescheduled the due dates for the supporting security and privacy documentation for the SSP and intends to be completed	"In process". David Rolla conducted a
ead to incorrect implementation statements or delay the System Security Plan					SSP package to federal regulators. This will allow the SSP authors to update				by March 4th 2024. Since there is a proposed schedule change in the	level review of the :
issa to incorrect implementation statements or delay the System Security Plan			or now the system should be designed from the SSP author's perspective instead of how the system is actually designed. The SSP authors need to	the control or enhancement has been met.					project's "Go-To-Green Plan", this finding remains a risk instead of being	controls and share
lead to incorrect implementation statements or delay the System Security Plan			or now the system should be designed from the SSF author's perspective instead of how the system is actually designed. The SSP authors need to know and use documentation such as System Architecture and Design,	the control or enhancement has been met.	controls with changes from Design through Implementation.					
issa to incorrect implementation statements or delay the System Security Plan			or now the system should be designed from the system should be instead of how the system is actually designed. The SSP authors need to know and use documentation such as System Architecture and Design, network topology, dataflow, ports and protocols, tools used for logging, etc.	the control or enhancement has been met.	controls with changes from Design through Implementation.				by miss Lifeting, 2004. The clark wish projection streamed in the large projects "Go-To-Greene Plant", this finding remains a risk instead of being elevated to a realized size. 0.0/31/2004 — The DHS and AS security learns continue to work on the securic evolution and documentation that summorts.	with Barbara/Virgil feedback during th
lead to incorrect implementation statements or delay the System Security Plan			of now the system snoula be designed from the SSP authors; perspective instead of how the system is calcularly designed. The SSP authors need to know and use documentation such as System Architecture and Design, network topology, dataflow, ports and protocols, tools used for logging, etc.	the control or enhancement has been met.	controls with changes from Design through Implementation.					with Barbara/Virgil feedback during th
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issa to incorrect implementation statements or delay the System Security Plan			or now the system ansulus as designed rome timps. 3-valors: perspective instead of how the system is actually stepped. The SSP subston seed to know and use documentation such as system Architecture and Deagn, network topology, dataflow, ports and protocols, tools used for logging, etc.	the control or enhancement has been met.	controls with changes from Design through implementation.				continue to work on the secure enclave and documentation that supports the SSP. Documents scheduled for completion by 1/31/24 include the secure enclave SSP additions. Incident Response Plan (IRP). Privacy impact Analysis	with Barbara/Virgil feedback during the week of December (prior to submitting
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las to scorect implementation susements or daily the System Society Ren			of now for system sources of eight respired as destroy of the control of the cont	the control of enhancement has been met.	controls with changes from Design through Implementation.				continue to work on the accure endure and documentation that supports the SF, Documents robbeduled for completed by 1,17,18 include the secure enclave SF Additions, Incident Response Flan (IRF). Privacy Impact Analysis (IRF). Configuration Management Plan and Centrosus Monitoring Plan Other procedural documents will be completed by the end of February 2024. As the Indicatories Security Control Security Control 2024. As the Indicatories Security Control Security Control Security Control 3024. As the Indicatories Security Control Security Control Security Control 3025. As the Indicatories Security Control Security Control Security Control 3026. As the Indicatories Security Control Security Control Security Control 3026. As the Indicatories Security Control 3026. As the Indica	with Barbara/Virgil feedback during th week of December (prior to submitting to SSA). The implementation sta- for each control we updated to reflect!
see to scorer imprimersation seamens or delay the System Security Man.			of now feel system mouland early give from the 3x4 size for perspective of the system and the sy	the costrol of enhancement has been met.	controls with changes from Design through Implementation.				continues to work on the secure ordinary and documentation that supports with \$20 Concernments between the continues to \$20 Concernments and the secure of \$20 Concernments and the continues the secure of \$40 Concernments and the complete ordinary of \$40 Concernments with the complete ordinary \$40 Concernments with \$40 \$40 Concernmen	with Barbara/Virgil feedback during the week of December (prior to submitting to SSA). The implementation sta- for each control we updated to reflect to current status as o
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Findin Reporter Type	ng Identified : Date Category	Observation	Significance	Recommendation	Event Horizon Im		Finding Status	Status Update	Client Comments	Vendor Comments
Development delays could negatively impact Fors, Michael Finding -	6/30/2022 Configuration an	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		Immediate	3 3 Med	Open	02/29/24 - The ASI reported additional delays that will push out Go-Live to		
the project schedule and delay go-live. Issue	Development	they have been unable to achieve and/or maintain their expected development velocity. Previously, the development team was challenged	milestones, schedule delays may lead to a delayed system go-live date. Failure to achieve a level of accuracy in estimating development tasks could	(potentially via the weekly DDI status meeting) with an accurate velocity				October 2024, based on the draft Go-to-Green plan. The ASI reported the Root Causes of this delay include: - Excessive defects - Lack of Code quality	1	10/31/2023 - Vic mixed bag here. \
		with accurately estimating development task level of effort (i.e., story	lead to a project schedule that is flawed and unrealistic. Previously, DHS	is accurately and consistently reflected in the project schedule. • ASI provide				with downstream impacts to include additional defects and critical blockers		are mentioning of
		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	DHS with the time needed to effectively evaluate the software				causing delays with Sprint and Epic demos and the completion of Integration		misunderstandi
		schedule that accurately reflects realistic timelines (see Finding #74). The	ASI BAs lacking the expertise required to create optimal designs and system of	emonstrations (demos) and elicit productive design discussions with DHS				Testing - development delays with the Hana/BES interface and Secure		MF - improve th
		ASI continues to be challenged with finding qualified resources in a timely	specifications that developers could consume without requiring extensive	attendees during each demo. • ASI regularly report estimated story points				Enclave. The draft Go-to-Green plan includes reorganizing the development		design
		manner.	clarification from the ASI BA/SA team. DHS and IVV observed instances	for the total remaining project work to reach go-live and presents a dynamic				team to have more experienced developers focus on critical defects and		communications.
			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	burn-down chart to track the progress. COMPLETE CLOSED • DHS request				consistent enforcement of development standards across all development teams and other process improvements. 01/23/24 - Ongoing development		Rama - I am tryin understand wha
			contributed to unproductive design sessions (see Finding #61). It remains	increase velocity. Note that adding additional junior resources may not be as	5			delays are still affecting the Project, requiring additional development and		development dela
			unclear if scope creep has contributed to these delays.	effective as staffing additional expert-level development, analysis, and other	r			INT Sprints and postponing Sprint and Epic demos. To keep the planned go-	· ·	two months left i
				resources that can lead and mentor junior resources. • ASI reviews the				live date the project elected to overlap INT and SIT, but this is subject to the		DDI.
				development process and identifies and mitigates the challenges preventing				Go-to-Green Plan that the ASI announced at the end of January. 12/31/23 -		Vic - we will evalua
				them from incorporating Epic demo activities into the project schedule. (9/29/23 - ASI will not be doing this, with DHS approval)				The ASI reported development delays related to 10 epics but has also produced a mitigation plan to manage these delays and stay on track for go-	t	the draft.
				(3/23/23 - Ad will not be using tills, with bits approved)				live. IVV remains concerned that any additional delays might oush out the		
								project schedule and implementation milestones. 11/30/23 - The ASI		
								reported delays in interface design and development, and unplanned		
								development effort required to unwind EBT functionality deferred to post-		
								go-live due to a missing requirement for PIN issuance. Additional development sprints were added to address the delays, and these sprints		
								resulted in a planned overlap of development and INT with SIT. IVV remains		
								concerned that additional development delays could require further		
								reduction of scope and system features. 10/25/23 - The ASI has noted gaps		
								in communication (design misunderstandings) between ASI BAs and DHS SMEs; DHS project management is working with the ASI to determine the		
								hert way to address this. The DNS SMEs have suggested that design		
A BES Project schedule based on inaccurate Molina, Brad Finding -	11/29/2021 Project	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	3 4 High	Open	best way to address this. The DHS SMEs have suggested that design 2/29/2024 - The Project has experienced many delays, the most recent of		
estimations diminishes effective planning Issue	Management	results that have not yielded improvement. Concerns with the structure, estimating practices, and ability to manage to the schedule persist. The use	constant schedule changes, resources not being available when needed, rushed activities, and general frustration which can lead to schedule delays, e	ASI provide details on how Velocity measures were used to develop				which was a four-week delay announced the end of January and the draft		
and resource management, which could		estimating practices, and ability to manage to the schedule persist. The use	rushed activities, and general frustration which can lead to schedule delays,	stimations for development effort in new version of DDI schedule - ASI conduct a Root Cause Apalysis (RCA) with DHS and DVV to determine why the				Go-to-Green Plan is adding another six months. 1/31/2024 - At the start of		11/17/2023 - As mentioned in o
result in late deliverables, cost increases, and a late go-live.		of multiple tools to track resources obfuscate resource management. Previous IV&V findings focused on specific schedule components such as	low quality output, scope changes, and budget issues.	conduct a Root Cause Analysis (RCA) with DHS and IVV to determine why the BES Project Schedule continues to be impacted by unanticipated work AS				January, a 4-week schedule delay to SIT was reported by the ASI to avoid an overlap of INT and SIT. On January 31, 2024, the ASI reported that SIT would		As mentioned in o pre-meet, the only
and a mid go ave.		Previous IV&V findings focused on specific schedule components such as resource management and critical path analysis, all of which were		BES Project Schedule continues to be impacted by unanticipated work AS Project Management work with development teams to confirm the accuracy	y			overlap of INT and SIT. On January 31, 2024, the ASI reported that SIT would not start as planned. The project status report indicated "Red" in most		pre-meet, the only significant revision
		addressed and closed.		of Velocity to reduce risk in the new project schedules. COMPLETE DHS and	i			categories and the ASI reported they were developing a Go-to-Green Plan.		made to the schedu
				the ASI agree to a revised schedule against which project deliverables can be				Further delays may be imminent. IVV has raised the criticality rating of this		were with the
				managed, (2/28/2023 - complete) ASI host a weekly meeting with DHS and				finding to "High". 12/31/2023 - With 10 epics for release 0.12 in		refinement of trai dates. I also ment
				IVV to review all changes to the project schedules (Primary and DDI). (8/31/2023-complete) CLOSED ASI plan and execute Epic development so				development, another development and integration testing sprint was added to the schedule. IVV remains concerned that under-estimated effort		dates. I also menti dates will continue
				(8/31/2023-complete) CLUSED ASI plan and execute Epic development so that Epic demos can occur earlier in the release schedule and allow time for	r			and resulting elongation of schedule could impact implementation		evolve as we prog
				nossible revisions (12/31/2023 No done) As requested by DHS, add key				milestones. 11/30/2023 - Additional development and testing sprints were added to the schedule, supporting IVV's concern that the effort required for	t t	further into the
				milestones to the project schedule, such as Sprint and Epic demos, to show	,			added to the schedule, supporting IVV's concern that the effort required for		project phases. Pl
				key progress towards completion of Epics. (9/29/23 ASI says that they will not do this.) Confirm current assumption that a delay with the current go-				completing the core solution for BES continues to be under-estimated; potentially resulting in missed implementation milestones. The additional		consider "softening
				live date will not result in major implications. (6/29/23) Leverage velocity				potentially resulting in missed implementation milestones. The additional development sprints for interfaces will overlap with Integration Testing (INT)		your status verbiag
				and hurn down charts to adjust development tasks estimates if needed				and the start of SIT in order to meet the Pilot and Go-Live dates.		
				Leverage velocity and burn down charts to adjust development tasks				10/31/2023 - The BES project schedule continues to have significant		10/31/2023
				estimates if needed. (4/30/2023 - ASI using Jira) Using the available tools,				revisions after being re-baselined, including delays to tasks (a training task	1	Vic - Significant revisions, what are
				review the current estimates to complete each activity compared to past				was delayed over a hundred days due to schedule refinement). IVV		revisions, what are
				actual hours (1/31/2023 - new ASI - Not Started) Update as necessary and provide the DHS/ASI Project Managers with reports and data that accurately				continues to monitor the schedule for possible estimation issues that could introduce risk in meeting key milestones of the project. 9/31/2023 - The ASI		you concerned abo Brad - big swings i
				reflect the DHS/ASI resource needs along with over/under allocations of				re-baselined both the Primary and DDI BES Implementation schedules,		the schedule. Training
				staff for the duration of the Project (1/31/2023 - new ASI - Not Started)				adding 8 weeks to release 0.12 and addressing DHS and IV&V's concerns	,	Mic - Training - Ton
				Develop mitigation and contingency plans that are tracked/managed by				that the prior schedules were underestimating the effort required to		has been working t
				DHS/ASI for all tasks that are behind schedule or are at risk of being behind				complete the remainder of the Project. As the ASI requested to shift the		refine dates. As we know more it is
3 The planned BES infrastructure is complex Fors, Michael Finding -	10/29/2021 Surtem Decima	Current ASI infrastructure plans include a significant number of	If the level of effort to implement and manage the complexities of the BES	schedule which includes resource management. (1/28/2023 - new ASI)	Next rouges!	2 2 Low	Open	Portal functionality after statewide implementation, IV&V remains 2/29/24 - No material update in the reporting period. 1/23/24 - No		know more it is
which could be difficult to implement and Risk	10/20/2021 System Design	sophisticated components that make up a complex cloud infrastructure.	infrastructure is not accurately accounted for and staffed by the ASI, the	(software updates/new releases), manage changes, and regression test once	e months	1 1 1000	Open	material update in the reporting period. IVV continues to monitor this		11/17/2023 -
lead to schedule/cost impacts.		Further, the Project Team has yet to finalize components that will make up	project could be met with unexpected costs and schedule delays. Delays in u	ndates are applied. The project team work to establish strong governance				finding, 12/31/23 - No material update in the reporting period, MV	· · · · · · · · · · · · · · · · · · ·	Again, why is DR be
		the BES infrastructure and the additional costs and time to configure, test,	finalizing the components being implemented could exacerbate this risks	over the utilization and maintenance of the various system				continues to monitor this finding. 11/30/23 - Some components of the BES		referenced here?
		and implement the planned complex environment remain unclear.	and lead to further delays. Complex platforms often present system maintenance and operations challenges as system changes can hold the	tools/components. • ASI allot time in the schedule to conduct proof of concepts to assure infrastructure components work as expected. • ASI				system infrastructure have yet to be finalized and tested, it remains unclear how or if the added complexity will impact project schedules and budgets		the current project schedule, the DR p
			increased potential for system failure (i.e., due to the significant number of	maintain a detailed schedule for DevOns implementation tasks to avoid				going forward. The ASI has reported they are close to finalizing the Secure		is scheduled to be
			"moving parts") and increase the level of time and effort to resolve	unexpected delays that could delay project milestones and the critical path.				Enclave infrastructure to house FTI data. The ASI appears to be making		submitted at the e
			infrastructure and application-level bugs. Further, some components remain in an immature state compared to their legacy counterparts. For					progress on DR plans and designs. 10/30/23 - The ASI continues to have		of the year. Remin
			remain in an immature state compared to their legacy counterparts. For					productive discussions with DHS during their weekly Architecture calls. The		Pilot Go-Live is Ap
			example, the project recently experienced a system failure because Google Cloud failed to clearly communicate a change that led to failure in another					ASI has yet to finalize their plans and technical architecture for conducting Disaster Recovery (DR). The cloud technology being implemented offers		2024.
			component (i.e., Nexus). Google Cloud is generally viewed as a less mature					some benefit and can simplify some elements of DR. However, it remains		10/31/2023 -
			product offering, compared to their rivals (Amazon Web Services, Microsoft					unclear if the complex infrastructure (with the multitude of components		Vic - westill do
			Azure). IV&V remains concerned that this could lead to failures at critical					being employed) will impact their ability to test and perform DR. 9/28/23 -		notunderstand why
			points in the project (including post-go live production failures) that could					The ASI has experienced turnover of their Enterprise Architect position; this		this remains.
			be difficult to resolve and lead to project disruption. If DHS intends to					does not appear to have had a material impact on the overall infrastructure build. The ASI continues to make progress in the build-out of their	1	10/11/2023
			eventually reduce M&O outsourcing costs turning over M&O tasks to State employees, they could face challenges supporting tools they may not be					build. The ASI continues to make progress in the build-out of their infrastructure and is confident that the automation they've implemented		
			employees, they could race challenges supporting tools they may not be familiar with in a complex infrastructure environment.					will simplify many maintenance tasks Given that, they remain confident they	,	Please reference
								will simplify many maintenance tasks Given that, they remain confident they will be able to meet infrastructure milestones without hindering	· ·	your updates on
								development. The ASI has also stated that maintaining the system post-go-		finding #82 Securit
								live will not require excessive effort and that achieving the SLAs will be possible. IVV remains concerned that some planned elements of the		and Privacy which documents the worl
								infrastructure have yet to be thoroughly architected, documented, and/or		being done for the
								conceptually tested via proof of concept (e.g., the secure enclave and		Secure Enclave.
								disaster recovery environment). 8/31/23 - The ASI has reported progress in		
								the build out of Chronicle, their event logging tool. The weekly		
O Insufficient configuration management Fors, Michael Finding	- 8/23/2021 Configuration an	d The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the Configuration Management Plan, however, it remains unclear if sufficient	Configuration Management is a set of processes and procedures that	OPEN • 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.	ASAP	2 2 Low	Open	2/29/24 - No material update in this reporting period. 1/23/24 - No material update in the reporting period. 12/31/23 - The project will utilize		
could lead to development confusion and Risk reduce the effectiveness of defect resolution	Development	Configuration Management Plan, however, it remains unclear if sufficient progress has been made toward establishing CM processes and governance	ensures the BES is understood and works correctly. The BES solution	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				material update in the reporting period. 12/31/23 - The project will utilize the DHS contractor currently assisting with security activities to update the		10/31/2023 -
		selecting CM tools (e.g., CMDB), and building out the CM infrastructure. The	e Management that may reduce errors and should provide the project team	meaningful set of configuration items or settings they will track. • DHS and				Configuration Management Plan (CMP). The scope of work that the DHS		Vic - We provided
		projects Security Plan has yet to be finalized which may include additional	with accurate, dynamic and timely information on some of the configuration	ASI work to clarify/solidify plans for the potential use of configuration				contractor is responsible for is unclear to IV&V. 11/30/23 - The ASI has yet		listing, working or
		requirements or decisions that could impact CM. The project currently	items. However, it is critical that DHS/ASI agree to the full list of items that	management tools. COMPLETED • Identify the DHS POC for the				to provide a detailed list of configuration items to DHS and IVV. IVV has		plan to implement
		relies on Github for tracking of some configurations.	are included in the configuration plan along with the details regarding the	Configuration Management Activities that would provide oversight of				restated this request to the ASI so that the level of detail is clear. 10/26/23		MF - Broad catego
			management of the configuration items, reporting and audit features.	configuration management activities and assure defined CM steps and plans are being followed, are effective, and are achieving DHS objectives for CM.				The ASI provided broad information on the configuration items being tracked but have yet to provide detailed configuration items for IVV review.		Vic - we are worki on the details now
				are being followed, are effective, and are achieving DHS objectives for LM. 7/31/2022				The ASI has deprioritized some configuration management activities, which		This will become n
								it intends to perform in preparation for Maintenance and Operation (M and	i	important and we
								 O). 9/28/23 - The ASI gained DHS' approval on the Items that will be tracked and monitored as part of configuration management. IVV requested the list 	· · ·	work to get ahead
								and monitored as part of configuration management. IVV requested the list	t	the M&O plan.
								last month and is waiting on the ASI to respond. 8/31/23 - No material update. 7/31/23 - No material update. 6/30/23 - No material update.		10/11/2023
								update. 7/31/23 - No material update. 6/30/23 - No material update. 5/31/2023 - The ASI continues to make progress with its utilization of the		IV&V requested
								ServiceNow Configuration Management (CM) tool. They have recently		list last month and
								performed an initial import of Google Cloud Platform server details into the		waiting on the ASI
								ServiceNow Configuration Management Database. *** Continued work. Setup in ServiceNow, will be building up instances. Ongoing support and		respond - Plea see the following
								Setup in ServiceNow, will be building up instances. Ongoing support and		see the following I
								main. Dont' think still a risk. IVV to discuss. 4/30/2023 - The ASI finalized		of configuration
								main. Dont' think still a risk, IVV to discuss. 4/30/2023 - The ASI finalized the ServiceNow (SN) modules they will utilize for the project. 3/31/2023 -	The state of the s	of configuration management items
								main. Don't 'think still a risk, IVV to discuss. 4/30/2023 - The ASI finalized the ServiceNow (SN) modules they will utilize for the project. 3/31/2023 - The ASI is currently evaluating which Service Now (SN) modules will be the best fit for the project and for DHS origing forward. Details of grantly how.		of configuration management items
								main. Don't 'think still a risk, IVV to discuss. 4/30/2023 - The ASI finalized the ServiceNow (SN) modules they will utilize for the project. 3/31/2023 - The ASI is currently evaluating which Service Now (SN) modules will be the best fit for the project and for DHS origing forward. Details of grantly how.		of configuration management items which are/will b managed in ServiceNow:
								main. Don't think still a risk, INV to discuss. 4/30/2023 - The ASI finalized the ServiceNov (SN) modules threy will utilize for the project. 3/3/12023 - The ASI is currently evaluating which Service Nov (SN) modules will be the stift if for the project and for DNS ging forward. Details of exactly how they II be using SN and the level of configuration management they intend to perform has yet to be determined. 2/38/2023 - The new ASI intends to		of configuration management items which are/will be managed in ServiceNow: Incident Response
								main. Don't 'think still a risk, IVV to discuss. 4/30/2023 - The ASI finalized the ServiceNow (SN) modules they will utilize for the project. 3/31/2023 - The ASI is currently evaluating which Service Now (SN) modules will be the best fit for the project and for DHS origing forward. Details of grantly how.		of configuration management items which are/will b managed in ServiceNow:

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			Finding	Identified					Analyst Fi	fing		- 1
, ID	Title	Reporter	Туре	Date Category	Observation	Significance	Recommendation	Event Horizon	Impact Probability Priority St		Client Comments	Vendor Comments
	he lack of early planning and coordination		Finding -	1/21/2021 Integration an		DDI project often underestimate the time needed to effectively manage all		Prior to FAT	5 4 High Op			
	with interface partners may result in	Mark	Issue	Interface	and documented by the ASI Connectivity is planned to utilize a presently	the tasks and activities to successfully implement data sharing. A clearly	Complete early proof of concept interfaces to avoid unexpected delays due			Documents (ICD) are updated. The interface testing team did not produce	1	
	chedule delays.			Management	undefined ETS API Gateway; however, there is no evidence that details have	defined communication plan and schedule that includes the coordination,	to external organization miscommunications or their own internal delays in			the testing plan on February 16th as specified in the draft Go-to-Green plan		10/31/2023 - Good
					been determined or documented in this regard. There is little evidence of	planning, and execution activities along with milestone dates can minimize	assisting the BES project. CLOSED 8. ASI and DHS conduct a root cause			01-31-2024 - The final two MOA/MOUs were signed. Interface developmen	nt	and accurate as of the
					active and sufficient communication with interface partners for	the risk of potential delays. In addition, after planning has been completed	l, analysis to determine the reason FDDs were changed without DHS			is behind schedule and will require workarounds when FAT begins. The AS	SI	end of October.
					coordination, design, and testing activities (Unit Test, SIT, UAT) Interface	interface partners will have to be available during interface implementation				faces challenges with interface partners that lack test environments. The		Met with DoTAX (Cory)
					planning and execution tasks and activities, including those for interface	to ensure that the interfaces are properly developed and tested before	interface partner for the duration of the BES DDI activities. COMPLETED			interface testing team has not scheduled meetings, nor published test plan		to get appendix
					partners, are neither resident nor managed within the Project Schedule.	deploying the system to production.	10/29 2. Identify and document all interface partners' contacts. COMPLETED			and schedules to coordinate with the interface partners. 01-04-2024 – Du	Je	details. Sent to Scott
							3/31/2022 3. Define a release schedule for each interface to include			to the number of open issues that could potentially impact interface		M. to finalize updates,
							milestone dates, coordination, and execution and share with the interface			development (e.g., incomplete agreements, unavailable test regions, and		then send to AG.
							partners. COMPLETED 01/04 4. Determine which deliverable will include			interface/batch testing schedules yet to be defined) IVV has raised the		DoTAX is one of the
							the details associated with the planned connectivity and detailed technical			criticality rating to High. 11-30-2023 - Two of the 23 MOA/MOUs (DLIR an	nd .	interfaces that will
							designs of all interfaces. COMPLETED 01/04 5. Complete all MOAs and			DoTAX) are not signed and remain outstanding. DHS continues efforts to		overlap SIT. They are
							obtain formal approvals. COMPLETED 01/31/2024			complete these agreements to minimize further impact on the project. Th	ils	busy in the tax season.
										finding is now an issue due to the realized impact to the project. The SSA		
										interface requires documentation to be submitted 120 days before the		Vic - Rama has
										pilot's data usage. This SSA documentation is expected to be ready by		updates. Pushback
										December 15th, 107 days prior to the April 1st pilot. Although the SSA has	s	from OIT about
										informally stated that they can complete the review within the shorter		sample files.
										timeframe, a risk exists to the availability of the SSA data. The interface		Rama - set up a batch
										testing team was organized in November, but planning has not begun and		team for end-to-end
										meetings have not commenced. Interface testing remains unscheduled an	nd .	coverage. We met
										is a growing concern as the Pilot date approaches. The ASI in internally		with Ryan S. and OIT
										reviewing the Interface Test Plan and will share it with DHS in December. 1		about sample files. We
										26-2023 - Two out of 23 MOA/MOU are outstanding; the ASI is reporting a		asked for masked
										agreement was reached with DLIR and it is ready for signature; the DoTAX		PROD files for ease of
										MOU does have some challenges and is currently being addressed by the A	SI	use. Off said no. We
-										and DHS. The Functional Design of all 23 Interfaces was completed and		are creating a batch

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