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### OFFICE OF ENTERPRISE TECHNOLOGY SERVICES | KE'ENA HO'OLANA 'ENEHANA

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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 <a href="http://ets.hawaii.gov">http://ets.hawaii.gov</a> (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
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# **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	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	ity and Secure Enclave and IRS Federal Tax Information requirements. Additionally, required	
Н	Н	Н	Security and Privacy		
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.	

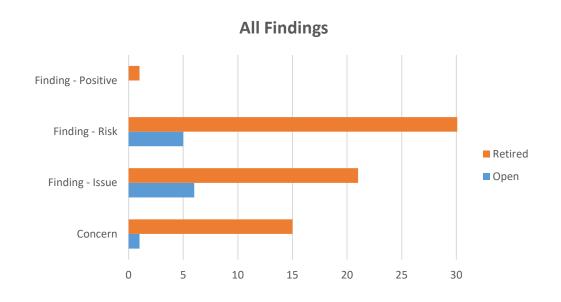


As of the September 2024 reporting period, PCG is tracking 11 open findings (5 risks, 6 issues) and has retired a total of 76 findings. Of the 11 open findings, 4 are High, 4 are Medium, and 3 are Low.





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
<ul> <li>Monitor, evaluate and revise scheduling estimates for accuracy based on the project teams past performance and resources available to do the remaining work.</li> </ul>	In Process
<ul> <li>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.</li> </ul>	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	
<ul> <li>Increase OCM efforts to effectively manage user, general public, and legislative expectations for the BES version at go-live.</li> </ul>	In process
<ul> <li>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.</li> </ul>	In process
<ul> <li>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.</li> </ul>	In process
<ul> <li>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.</li> </ul>	In process



# System Design

#	#	Key Findings	Criticality Rating
0	·C	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.	
0	6	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
<ul> <li>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.</li> </ul>	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	
<ul> <li>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.</li> </ul>	In process
<ul> <li>The project team work to establish strong governance over the utilization and maintenance of various tools/components.</li> </ul>	In process
<ul> <li>ASI allot time in the schedule to conduct proof of concepts to assure infrastructure components work as expected.</li> </ul>	In process
<ul> <li>ASI maintain a detailed schedule for DevOps implementation tasks to avoid unexpected delays that could delay project milestones and the critical path.</li> </ul>	In process



# Configuration and Development

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

Recommendations	Progress
<ul> <li>ASI adhere to plans for configuration management as documented in BI-6 DDI Plan, Section 5.2 and cladetails and/or any changes with DHS.</li> </ul>	In process
<ul> <li>ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track.</li> </ul>	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	
<ul> <li>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.</li> </ul>	te In process
<ul> <li>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.</li> </ul>	In process
<ul> <li>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.</li> </ul>	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.	

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
<ul> <li>Test data fields for system impacts resulting from data that is poorly formatted, out of range, or other unexpected data transmission errors.</li> </ul>	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	Progress
Monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested.	In Process
<ul> <li>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.</li> </ul>	Completed
<ul> <li>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.</li> </ul>	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
<ul> <li>The ASI provides comprehensive INT results and SIT scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution.</li> </ul>	In process
<ul> <li>The ASI validates that development and testing resources have sufficient bandwidth to complete overlapping assigned responsibilities</li> </ul>	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

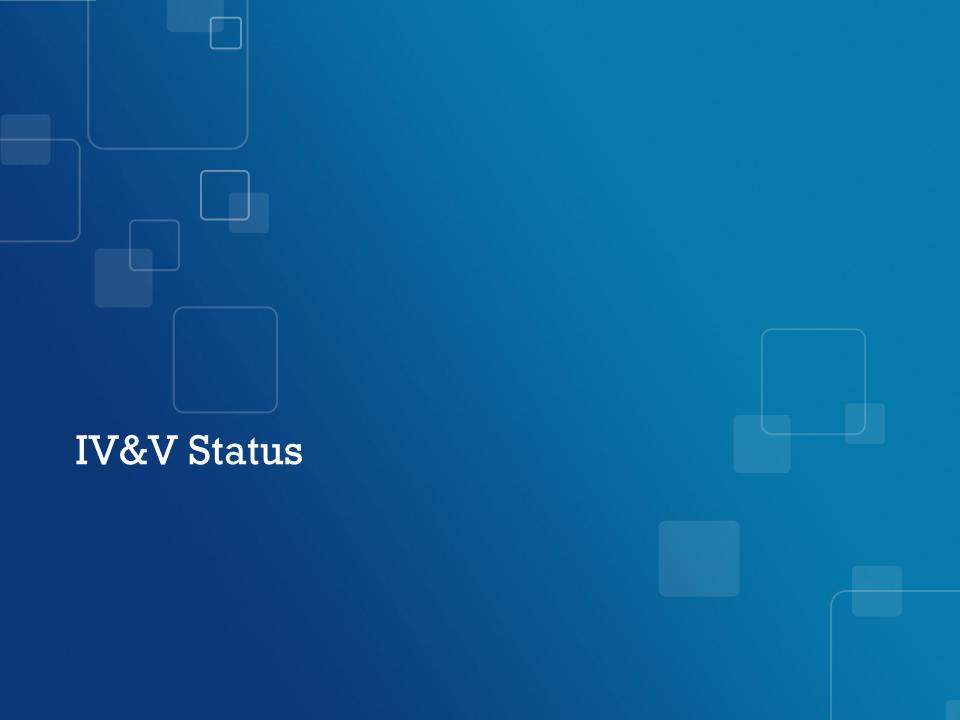
Recommendations	
Determine when documentation will be created, updated, and available for the SSP authors.	In process
<ul> <li>Collaborate and communicate with SSP authors about when reliable and correct documentation will be available.</li> </ul>	In process
<ul> <li>Perform a full review of all draft 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.</li> </ul>	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

	<u> </u>	
#	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	
withi	engagement area is n acceptable meters.	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
RO.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

### Ending Slide



**Solutions that Matter** 

Finding Identified					Analy	st Finding			
10 Tale Page 10 Tale Reporter Type Date Category  98 Delays in providing the required deliverables Molina, Brad Concern 7/24/2024 Project to FNS could extend the review time needed and delay MPS's concurrence to start the	Observation  Not all the documents that FNS is required to review have been provided. In the weekly Readiness meeting on 7/23, it was mentioned that FNS is at its year-end, so its workload is backing up, which might require its document	the project team deliver the required deliverables to FNS as soon as possible so FNS has the necessary time to review and give the go-ahead to start Pilot.	Recommendation	Event Horizon Impact now	3 3 NA	Open	Status Update Client C 09/30/20204 - The status of this preliminary concern will be reevaluated by the IVV team after the project team determines the approach, requirements/functionality and schedule for the Pilot and Statewide rollout.	Vendo Vendo	dor Comments
pilot.	review to take the full 60 days. The longer DHS delays getting deliverables to FNS, the closer it gets to the planned start for Pilot.								
94 The Lack of an effective way to validate BES Molina, Brad   Finding	ensuring the system's compliance with contractual commitments by associating each requirement with passed test case(s). However, the approved project schedule shows the RTM completed on 6/26/24, which falls after the Core ST exit decision on 5/10/24. The ASI provided the BH-23 System Interprit Review Tool (SRT) to DHS on April 26, 2024, but withdraw	delays.	effective way to map contract requirements to passed test cases, and, per	5/10/2024	3 3 Med	Open	09/38/2024 - The AS did demonstrate some progress in providing a set of RTM reports that match the approved believable 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 confirms of the critical that DHS is provided an RTM	interim	/2024 ude information o rim version vided prior to FAT.
	the deliverable due to DHS concerns. This BI-22a deliverable may help DHS validate requirements.						to confirm requirements are met. 08(31/2024 - Ac of the end of the reporting period, the ASI had not provided the comprehensive Requirements Traceability Naturi Kof 86 S. 1.0 based on the Deliverable Expectation Document (EDI), only an interior wearing, prior to the start of FAT testing. DHS needs this finalized RTM to validate all contractual requirements have been included in 85:1.0 as scheduled and successfully rested prior to go	worth	2/2024 not sure if this is th noting but orIdES did deliver
							live for Pilot. 7/31/2024 - Discussions were held throughout July regarding the format and structure of the Requirements Traceability Matrix (RTM). However, the ASI has not distributed a reformatted 81-21 Requirements Traceability Matrix deliverable for DRS review and approval. IVV remains concerned that the delay in finalizing the RTM may lead to requirements	an "int RTM to require	"Interim" BI-21 A to satisfy the uirement criteria entering into BES
							tracing issues, missing required Pilot functionality in BES, testing gaps, and project delays. 6/30/2024 - NV is reporting positive movement on this risk this month. The ASI delivered a draft BE-12 RRM to DNEs and used DNEs feedback to revise the RTM's structure to simplify the tracing of		14/2024 BI-21 RTM
							requirements, use cases, epics, and tests in a single report. The ASI continues to make additional revisions to further streamline the RTM format and align more closely with the Deliverable Expectations Document. An approved RTM was not delivered by 6/21/2024 per the schedule nor by the end of this reporting period. Until the ASI submits a final RTM for review,	deliver review discuss times:	verable has been lewed and cussed multiple es at the bi-weekly
	Aside from the functional testing accomplished during epic testing, specific			2024 2nd Qtr	3 2 Low	Open	the risk remains that all contractual requirements have not been fully validated, which could result in a system with unmet user needs. 5/31/2024 09/30/2024 - The 7 interfaces used in the planned Pilot release, BES1.0,	reports	meeting. Draft orts of the BI-21
testing of the interfaces and data transfer Mark Risk Interface failure, conditions may exist with data Management format, boundaries, and dependencies. These failures may result in intermittent and	data flow testing is usually part of an interface definition.	difficult-to-resolve issues, such as scrambled or missing data – or the system may have a fault or exception. Since the Project has not established and tested the fault scenarios, we do not know how the system may react.	connection and transfer operations. 3. FTP and file interfaces should be tested for data and file integrity. 4. Test data fields for system impacts resulting from data that is poorly formatted, out of range, or other unexpected data transmission errors. Removed 2. [n/a, no transactional				have been completed. However, the other 12 releases required for the statewide release, BES.1., will be required with the revised approach to merge. This finding is being kept open at a low priority until all 19 interfaces are completed. 08/22/2024 - All tests except those related to the Wells	As mer	14/2024 mentioned at the y pre-meet, a
hard-to-isolate problems or errors			interfaces therefore no race conditions] API interfaces should be tested for race conditions. 5. [redundant with #4] interface records and files should be tested for format, length, or other physical formatting errors.				Fargo Lockbox interface have been completed. These seven tests require initiating a new service ticket with Wells Fargo. Tests are expected to be completed before the beginning of the Pilot phase. 06/28/2024 - The ASI has prepared the test scripts for the 12 interfaces included in the Pilot	team p to addi recom:	nnical Interface m plan does exist iddress PCG's ommendations for
							release. This first round of test scripts reside in the Jira tool and are being executed to be complete by mid-July. The Office of Information Technology (OIT) will be required to provide special case file alterations. 05/23/2024 - The ASI and DHS continue to define the interface test approaches. Technical	As mer	finding.5/11/2024
							interface testing details, including the Transport Layer, are planned to be discussed in June.	Interfa	
								recom this fin	ommendations for finding.
89 The current approach to completing the development of the remaining epics is some condensed and aggressive, which may increase the likelihood of schedule delays,	Ten of the Epics scheduled for completion before Release 0.12 SIT will not be ready. To avoid SIT delays, the current approach is to begin SIT without the 10 Epics and test them as they are completed. Additionally, Release 0.12 development that was extended two weeks from the scheduled end date has	Insufficient INT may create gaps in SIT, leading to further quality issues. This may increase the risk of significant delays or introduce defects into the production environment.	sufficient bandwidth to complete overlapping assigned responsibilities - Develop Contingency Plans If the mitigation plan continues to see slippage affecting INT and SIT The ASI provides comprehensive INT results and SIT.	Now	4 5 High	Open	3/30/2024 The project has recently announced additional go-live debuys but have yet to provide a revised go-live data. The SI has stated reasons for the deby include significant volume of defects, code quality issues, development debuys, and DHS needing more time to complete their FAT esting. As of the last project status meeting, ejac 542,344, and 286b		14/2024 y is this still red?
quality issues, and a higher volume of testing defects.	been extended for another ten business days.		scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution. CLOSED - The plan to complete BES implementation does not include overlapping testing phases (5/24/2024) - The ASI should evaluate if Epics entering SIT late might require retesting functionality that had already				remain incomplete and the ASI was unable to provide expected completion dates. IVV remains concerned that the accelerated schedule may adversely impact overall project outcomes, leading to increased risks of quality issues,	yellow after d April (f	s should be in ow for monitoring or discussions in il (March report).
			been tested. (closed 06/01/2024) - The ASI release a detailed schedule of events, including development completion, INT start, and SIT start for each epic covered in the mitigation plan. (closed 06/01/2024) CANCELED - Develop a Risk Mitigation Plan to address challenges of managing multiple				further schedule delays, and insufficient testing. 8/30/2024 – In August, the ASI announced additional delays in delivering several reporting functions planned for phased implementation into FAT. The Epic due dates were pushed further, with Epic 243 due date moved from August 12,2024 to	listed s All SIT: review	ddition, the items ed should be done. SIT tests have been lewed and
			test environments, multiple code bases and versioning within and across Releases.				October 4,2024 and for Epic 244, the due date was updated from August 23,2024 to October 4,2024 which will result in the overlap of SIT, FAT testing support, and BES 1.1 (statewide) development efforts. The development progress for Epic 243 was revised downward from 93% to	There is needed	roved by DHS. re is no retesting ded based on the s being phased
							85%. IVV remains concerned that these further delays and concurrent activities will introduce increased complexity, making it challenging to manage and coordinate multiple tasks simultaneously. This may compromise the project's ability to complete testing and other essential	eWorld	4/10/2024 - oridEs used and owed the same SIT
							activities, ultimately impacting the pilot and statewide go-live dates.  7/31/2024 - In July, the ASI delayed the delivery of several reporting the ASI delayed to be phased into FAT. Some of these reports are financial and provide key operational metrics that are complex and take time to	docum 19 for	ry criteria as umented in the Bi- for BES 1.0. There e no amendments
							validate for accuracy and completeness. The 2-week delay for Epics 286b and 208 and the 5-week delay for Epics 203 and 244 is resulting in the overlap of SIT, FAT testing support, and BES 1.1 (statewide) development efforts. IVV is concerned that the further delays and concurrent activities	as a re decisio	he BI-19 needed result of the "go" ision. An exception made by DHS for
88 Implementing a Core Solution for go-live Molina, Brad Finding - 11/30/2023 Project carries inherent risks that may impact Risk Management overall project success and reduce user adoption.	The project has elected to implement a Core Solution at go-live to meet their stated timeline. This version is generally referred to in Agile software development as a Minimum Vlable Product (MVP), which is a simplified version of a product that 1) offers functionally that meets the core needs of	such as potential challenges in securing user buy-in. This can result in limited user adoption, user dissatisfaction, and negative publicity, particularly considering the financial investment made for the delivery of	legislative expectations for the BES version at go-live. • 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. • Actively	l Now	3 3 Med	Open	9/30/2024 - Without an RTM, there is ambiguity on the ASI presented enhancements and critical functionality list developed by DHS as compared to the contract requirements. IVV recognizes the project is almost 6 years old, meaning policy and business operations has changed which may drive	04/11	/10/2024 -
	users, 2) can accelerate the timeline for go-live, and 3) allows the project to get real-world feedback from users to refine future product development.	limited functionality. A compressed timeline may compromise the quality of designs, user interface sophistication, and lead to an uptick in software bugs and suboptimal code. Further, this approach may expose the project to regulatory compliance risks, such as last-minute objections from regulatory	development process including code quality, cutting scope to meet development milestones, insufficient user validation of demonstrated				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. 8/30/2024 - DHS continues to emphasize the need for workouts to be documented and incorporated into training, with a plan to update	functio	me required BES ctionality will be ilemented post- it." What does this
		bodies like FNS, which could find certain system elements non-compliant with their standards and delay the go-live date. Misalignment between stakeholder expectations and the Core Solution may lead to dissatisfaction	missing functionality. * 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				documentation as defects are resolved to enable pilot workers to be most effective. 7/31/2024 - DHS and the AS continue to document and develop workarounds in preparation for Pilot. There are now two workaround areas; 1) known ease in functionality and 2) defects discovered during testing that	mean? the int	an? I think I know intent and perhap late as such?
		or a lack of support for the project and could negatively impact future project funding requests. Implementing a limited Core Solution typically requires the customer to implement multiple workarounds until automated features can be built into the system. Users could become impatient if these features are further delayed when bug fixes and other features rate.	advantages of going live with a system that provides more comprehensive				will not be addressed prior to Pilot. Additionally, planning is ongoing for incorporating these workarounds into the training process. 6/20/24 - Per DHS's request, the ASI is currently developing a list of workarounds to address known gaps in BES 1.0 functionally. 5/23/24 - No material update.	plan, ti Implen	r the Go to Green n, the ASI plans to element required ctionality in
		precedence. Others may lose confidence that the features or system improvements will ever be implemented. Going live with a solution that is missing functionality that stakeholders were expecting typically requires an increase in OCM efforts both by the ASI and DHS staff to temper					4/30/2024 - No material update 0/3/30/24 - The AST's Go to Green plan and project schedule were approved by DHS. Per the Go to Green plan, some required BES functionality will be implemented post-Pilot. This may create unplanned workarounds and rework as the full impact of this approach	multipl (Pilot/S Statew	Itiple releases ot/Statewide/Post rewide)."12/15/20 Above already
		stakeholders' reactions to a system with limited functionality.					becomes known through testing and training. 02/29/24 - The ASI drafted a Go-to-Green plan that includes an October 2024 Go-Live date, with several features to be released after Pilot. Implementing the functionality of a core solution not tested in a real-world Pilot environment may lead to	addres Campo recom:	iressed by DHS/Joe npos.Ensure ommendations ect "In Progress" or
							unexpected issues and bugs. IVV 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. O/128/23 * Hos As frecently transitioned the OCM leadership role to a new resource. OCM activities will be crucial in		Process".

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Hinding	Identified					Analyst	Finding		
ID Title Reporter Type  86 Limited collaboration between the ASI and Molina, Brad Finding -	Date Category 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	Event Horizon Impact Pro	robability Priority	Status	Status Update Client Comments  09/30/2024 - No material update in this reporting period. 8/30/2024 - 10/11/2023 Jessica - Our SMEs are providing their feedback. This is	Vendor Comments
DHS in the design process could lead to BES Issue	6/1/2023 System Design	concerns raised by the DHS testers regarding the usability of the BES system.	the BES solution, with the expectation that the new system will at minimum	sprint completion (demo functionality/requirements as they are developed)	NOW 2	2 LOW	Open	Design activity was minimal in the reporting period, with DHS reviewing the the items that I clarified with IV&V, that there are feedback given, no	
usability issues and functionality gaps in the		challenges with the user interface, missing functionality, and basic screen	provide all functionality found in current applications – but really should	to get early feedback on work products Improve rigor in the Design				final Self Service Portal (SSP) designs. IVV continues to monitor design feedback means design is ok. I rec'd an emal back from Joe F. that N	kV 06/14/2024
applications, not meeting critical business needs for DHS and State clients.		rayout issues that would not be expected in a modern application. Based on defect reporting from the UAT process, a large majority of the defects are	provide additional capabilities, greatly enhanced user interface, and overall improved usability from current systems. Should the solution fall short of	approve the design to avoid extensive defects and gaps in functionality that				activities to validate continued collaboration between the ASI and DHS. wants to meet with our reviewer to validate this.  7/31/2024 - IVV observed positive progress this month with the ASI	Why is this in Not
		related to "design errors". Although the Release 11 UAT cycle was testing a	expectations, there may be challenges in DHS staff adoption; lack of	may trigger the need for a change request CLOSED - ASI and DHS re-				providing specific actions to address DHS concerns regarding the Mass	Started? We had a live
		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	evaluate the effectiveness of the recorded Sprint review process to ensure that designs align with DHS expectations. (closed 3/31/2024) - Include a				Change Functionality (Epic 208). 6/31/2024 - NV observed DHS and the ASI working collaboratively in a setting that promoted healthy dialogue on the	sprint demo for Epic 209 In addition, this
		attributable to functionality developed for kelease 11.	same level of needed services to clients, resulting in bad publicity for DHS	wide enough audience in all design and demo sessions to validate FNS and				BES design therefore, the criticality rating is updated from a medium to low.	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	has approved all the
								address all the feedback. Changes raised late in the design process could require code changes, potentially causing schedule delays or the resulting	designs, except one. We are collaborating
								solution not meeting the business need. DHS staff attending Epic demos	with DHS to obtain
								should be prepared with an understanding of the agreed-upon designs and	their approval on the
								point. 02/29/2024 - One demo (Epic Demo 211) was held in February as the	outstanding design. Design sessions will be
								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	scheduled as part of this process. There
								eligibility is not forced to run when critical benefit data is modified on a case	are 20+ people invited
								- which could also point to a gap in collaboration on key design decisions.	to the design sessions.
83 Gaps in test coverage and slower-than- Kalsi, Neetu 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	OPEN - DHS and ASI monitor INT/SIT closely for both breadth and depth of	UAT 4	4 High	Open	01/31/2024 - DHS viewed Sprint demos for Epics 247 and 284 on January 9, 9/30/2024 - IVV recognizes the project team's decision to postpone the Pilot	04/10/2024 -
expected progress in testing may result in Issue		Dashboards, and Test Repository, gaps in testing coverage may exist and the	and cost-effective to address issues during the early testing stages. If there	testing to ensure the system is adequately tested - ASI utilize the two-week				and Statewide implementation, and that DHS and ASI are jointly developing	
schedule delays if subsequent test phases uncover a higher volume of defects and user		progress of testing might be lagging. Concerning testing coverage, it appears that not all epics and use cases in R11 have associated text cases or are	is slow progress or incomplete testing in the early stages, it can result in more defects leaking into subsequent testing phases, necessitating more	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				a revised approach and schedule. Meanwhile, IVV's review of testing trends reveals mixed results. Compared to last month, passed test cases increased	7/12/2024
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 than-anticipated progress throughout the project lifecycle increases the risk	when FAT resumes, optimizing testing efficiency and reducing potential				22% in the real-time environment (421 to 513) and 309% in the time travel	As mentioned
		unexecuted, and not all defects have been resolved as the project	than-anticipated progress throughout the project lifecycle increases the risk of encountering significant delays, extensions, or the introduction of defects	defect rediscovery. NOT COMPLETED -DHS should request that the ASI				environment (42 to 172). However, failed test cases remained relatively stable in real-time and rose 51% in the time travel environment (106 to	previously, eWorldES delivered a simplified
		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.	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				160). As of September 25, 2024, DHS testers identified 948 unique defects,	RTM to DHS to enter
			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 installable services, with 5 emerging in a single day, prompting NV team concern given the advanced stage of FAT	terms of the SIRT, this
				as needed to ensure UAT/FAT begins with the best system possible. (3/31/2024)				single day, prompting NV 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
				(3/31/2024)				compromise project timelines, increase defect resolution efforts, elevate	into FAT. Please
								risk levels, and require additional resources. IVV recommends an intensified	confirm with DHS.
								focus on defect resolution, testing efficiency, and risk mitigation to ensure project success. 8/30/2024 - As of August 29, 2024, 29% of the defects	06/14/2024
								identified during FAT, totaling 313 out of 1056, remain open and	Why is this still red? It
								unresolved. The breakdown of these unresolved defects by severity is concerning, with 72 high-severity, 150 medium-severity, and 91 low-severity	is very clear that we have full coverage of
								issues. Notably, the number of unresolved defects has increased, and the	all the functionality
								count of high-severity defects has doubled. With BES pilot planned to start	and that we are going
								next month the IVV team remain concerned about the potential delays in testing and the project schedule. This trend warrants attention to ensure	to make it to FAT. This should be in yellow for
								timely resolution of these defects and mitigate any impact on the project	monitoring.
								timeline. 7/31/2024 - DHS Testers have logged 453 defects (excluding dualicates or those determined not to be defects, such as user error! in the	04/10/2024 - All test scripts for
82 The lack of technical documentation may Heath, 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	Prior to the start of 4	5 High	Open	9/26/2024 - In September, the ASI completed the updates to the System	
lead to incorrect implementation statements Issue or delay the System Security Plan	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	the third-party			Security Plan (SSP) Appendix A, specific to the Secure Enclave and IRS	09/9/2024
or delay the System Security Plan									
		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 documentation will be created, updated, and available for the SSP authors	assessment.			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
		decisions on what tools support the SSP controls are still being decided on.  Implementation statements are currently being written from the perspective	(ready for federal partner review) is scheduled for September 15, 2023. The SSP is a large technical document with hundreds of controls and control	documentation will be created, updated, and available for the SSP authors Collaborate and communicate with SSP authors about when reliable and	assessment.			Milestone) is tracking updates to the main body of the SSP. The ASI has also stabilized the Tenable Nessus scans, which scan for vulnerabilities and	for training in Sept 9 meeting, so this
		decisions on what tools support the SSP controls are still being decided on. Implementation statements are currently being written from the perspective of how the system should be designed from the SSP author's perspective	(ready for federal partner review) is scheduled for September 15, 2023. The SSP is a large technical document with hundreds of controls and control enhancements, and each one requires an implementation statement of how	documentation will be created, updated, and available for the SSP authors Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. COMPLETE - Determine when the	assessment.			Milestone) is tracking 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	for training in Sept 9 meeting, so this should be reflected in
		decisions on what tools support the SSP controls are still being decided on. implementation statements are currently being written from the perspective 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 know and use documentation such as System Architecture and Design,	(ready for federal partner review) is scheduled for September 15, 2023. The SSP is a large technical document with hundreds of controls and control	documentation will be created, updated, and available for the SSP authors. Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. COMPLETE - Determine when the infrastructure design baseline will be completed. (06/30/2024) - Perform a full review of all drieft SSP controls for content and accuracy prior to the	assessment.			Milestonoly is tracking updates to the main body of the SP. The AGI has also stabilized the Terradio Pressus scare, which Pressus scare and the State and configuration complaince of the envers that hose BS. Don't has began to the State and the State and State and State and State and State and State and State and scare and state and scare and State and scare and State	for training in Sept 9 meeting, so this should be reflected in September report. Also, need to
		decisions on what tools support the SSP controls are still being decided on. Implementation statements are currently being written from the perspective 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	(ready for federal partner review) is scheduled for September 15, 2023. The SSP is a large technical document with hundreds of controls and control enhancements, and each one requires an implementation statement of how	documentation will be created, updated, and available for the SSP authors Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. COMPLETE: Determine when the infrastructure design baseline will be completed. (GG/30/2024) - Perform of full review of all draft SSP controls for content and accuracy prior to the start of the independent Security Controls. Assessment of BES and	assessment.			Milestone) is tracting updates to the main body of the \$5P. The ASI has also stabilized the freatible Resus scarue, which safe no whereabilities and configuration compliance of the server's that host 8ES. DRS has begun implementing the Social Security Administration (SSA) security awareness training and collecting compliance evidence to submit to the SSA. This remediation of a 2013 SPA PAMAL is expected to allow 8ES access to SSA.	for training in Sept 9 meeting, so this should be reflected in September report. Also, need to determine what
		decisions on what tools support the SSP controls are still being decided on. implementation statements are currently being written from the perspective 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 know and use documentation such as System Architecture and Design,	(ready for federal partner review) is scheduled for September 15, 2023. The SSP is a large technical document with hundreds of controls and control enhancements, and each one requires an implementation statement of how	documentation will be created, updated, and available for the SSP authors. Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. COMPLETE - Determine when the infrastructure design baseline will be completed. (66/36/2024) - 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	assessment.			Milestoned is tracking updates to the main body of the \$5.9°. The ABI has also stabilished between the tracking and the tracking and the tracking and configuration compliance of the severe that host EES. Diet has begun implementing the Social Sociality Administration (SSA) accountly wavereness training and coloring compliance ordering to suitable the SSA. This control is a second ordering compliance ordering to suitable the SSA. This SSA and the SSA an	for training in Sept 9 meeting, so this should be reflected in September report. Also, need to determine what resources will be used
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80 Consequent delays have negatively Fors, Michael Finding - mount of the proper schedule and delayed golive. However, the proper schedule and delayed golive.		decisions on what tools support the SP controls are still being decided representation statements are currently being written from the present programment and control being written from the system should be designed from the SP author's perspective of how the system should be designed from the SP author's perspective from the system should be designed from the SP author's perspective from the SP author perspective from t	(ready for federal partner review) is scheduled for September 15, 2021. The SPS is a large school document with hundred of controls and control enhancement, and each one require an implementation statement of how the control of enhancement has been met.  If the ASI is unable to achieve a velocity that enables them to meet planned milestones, schedule delay may lead to a delayed system go live date. Failure to achieve a velocity that enables them to meet planned milestones, schedule delay may lead to a delayed system go live date. Failure to achieve a level of accuracy in estimating development tasks could have a control of the schedule delay may lead to a delayed system go live date. Failure to achieve a level of accuracy in estimating development tasks could have indicated, and forly speech, date some fleshed delays were due to some ASI BAS is failing the expertise required to create optimal elegism and systems of the control of the school	documentation will be created, updated, and available for the SSP authors. Collaborate and communicate with SSP authors, about when related and introduction of the state of the indispendent security control Accessment of ES and an attribute of all of the state of the Indispendent security control Accessment of ES and state of the state of the Indispendent security control Accessment of ES and state of the state of the Indispendent security control Accessment of ES and state of the SSP accessment of	Inseedate 3	3 Med		Milestoned in transfer quoties to the main body of the 59.7 Per Ad Na and stabilished by transfer between scare, which can for suberabilities and configuration compliance of the server than host 165. Oct has began and the server of the configuration of the server than host 165. Oct has began and the server of	for training in Sept of meetings, 2015 and in Sept of the Sept of Sept

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Finding	Identified					Analyst	Finding			
Title Reporter Type  A BES Project schedule based on inaccurate Molina, Brad Finding	Date Category 11/29/2021 Project	Observation  DHS and the ASI have tried multiple times to rework the schedule with	Significance  If estimates for project schedule activities are not accurate, this can lead to	Recommendation	Event Horizon I	Impact Probability Priority 3 4 High	Status	Status Update  09/30/2024 - The project did not meet the Pilot Go Live date as the	Client Comments	Vendor Comments
estimations diminishes effective planning Issue	Management	results that have not yielded improvement. Concerns with the structure.		based on the project teams past performance and resources available to do		3 4 mgn	Open	schedule was not realistic for the planned work to be performed, and new		
and resource management, which could			rushed activities, and general frustration which can lead to schedule delays,					functionality was requested by DHS via change requests (12 overall). No		
result in late deliverables, cost increases,		of multiple tools to track resources obfuscate resource management.	low quality output, scope changes, and budget issues.	with DHS and IVV to determine why the BES project continues to experienc	ce			updated schedules were published in September, as the ASI worked through	1	09/9/2024
and a late go-live.		Previous IV&V findings focused on specific schedule components such as		schedule delays ASI Project Management works with the development				revising the schedule to align with the new project direction (combining		Numbr of defect
		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,
		addressed and closed.		accordingly to reduce risk in the revised BES project schedule. •ASI provide	les			functionality list from DHS. Per prior recommendations, the ASI and DHS		outstanding CR.
				Burndown charts that provide visibility into the remaining work ASI provide details on how Velocity measures were used to calculate the				should conduct a root cause analysis and incorporate the results in the new schedule. 08/30/2024 - Underestimated development work that will		pushing schedul beyond Sept. Ph
				remaining development workASI conduct a Root Cause Analysis (RCA) wit	dela			coincide with FAT testing and related defect resolution, has created risk for		epics should be i
				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. Optimisti
				schedule delays. DHS and the ASI agree to a revised schedule against which	ch			Pilot. IVV is concerned that Epics might need to enter Pilot without full		getting defects a
				project deliverables can be managed. (2/28/2023 - complete) ASI host a				testing, causing issues for workers completing their required work. DHS has	s	epics addressed
				weekly meeting with DHS and IVV to review all changes to the project				also submitted additional Change Requests that may require the schedule to	0	end of Septembe
				schedules (Primary and DDI). (8/31/2023-complete) CLOSED ASI plan and				be delayed. As of the end of the reporting period, the ASI and DHS are		should include al
				execute Epic development so that Epic demos can occur earlier in the				talking through a revision of the schedule that will at a minimum push FAT testing out to end of September. 07/31/2024 - The ASI is actively working		three of the issue
				release schedule and allow time for possible revisions. (12/31/2023 No done) As requested by DHS, add key milestones to the project schedule, sur						
				as Sprint and Epic demos, to show key progress towards completion of	ucn			on defect resolution and new development work for BES 1.1. A few key documents/deliverables, including the Disaster Recovery Plan, Data		fully approved.
				Epics. (9/29/23 ASI says that they will not do this.) Confirm current				Conversion results, and Requirements Traceability, are behind schedule. The		
				assumption that a delay with the current go-live date will not result in maid	ior			ASI is hiring additional resources; however, it is not known if these resource		8/14/2024
				implications. (6/29/23) Leverage velocity and burn down charts to adjust				will have a positive impact on the work remaining as defined in the		
				development tasks estimates if needed. Leverage velocity and burn down				schedule. 06/31/2024 - The Project's ability to perform according to the		No BES 1.1. Refer
				charts to adjust development tasks estimates if needed. (4/30/2023 - ASI				approved BES Project Schedule continues to be a high risk. The ASI		with this finding
				using Jira) Using the available tools, review the current estimates to				completed their schedule reviews with DHS and IVV, baselining the schedule	e	documented in the
				complete each activity compared to past actual hours (1/31/2023 - new AS				on 06/19/2024. IVV continues to monitor a schedule that has seen six (6)		Executive
				Not Started) Update as necessary and provide the DHS/ASI Project Manage	ers			delays to the Pilot and Statewide Go Live dates since the BES 2023 restart in	1	Summary/PM
			Z	with reports and data that accurately reflect the DHS/ASI resource needs				February 2023, with two (2) eight-week delays introduced in March and		Category. I menti
The planned BES infrastructure is complex Fors, Michael Finding - which could be difficult to implement and Risk	10/28/2021 System Design	Current ASI infrastructure plans include a significant number of				2 2 Low	Open	9/26/24 - The project continues to make progress on its technical debt (infrastructure activities that were put on hold in order to work on priority		11/17/2023 -
which could be difficult to implement and Risk lead to schedule/cost impacts.		sophisticated components that make up a complex cloud infrastructure.		(software updates/new releases), manage changes, and regression test one						
			project could be met with unexpected costs and schedule delays. Delays in finalizing the components being implemented could exacerbate this risks	changes/updates are applied. • The project team work to establish strong governance over the utilization and maintenance of the various system				items), including improvements to MongoDB, DataDog, and Boomi. The project has initiated the process with Netenrich to convert to the new		Again, why is DR I referenced here?
		and implement the planned complex environment remain unclear.	and lead to further delays. Complex platforms often present system	tools/components. • ASI allot time in the schedule to conduct proof of				Google SecOps platform and may add more components/services, including		the current projec
		and imperiors the planted complex environment remain directar.	maintenance and operations challenges as system changes can hold the	concepts to assure infrastructure components work as expected. • ASI				the Consul API Gateway and Private Service Connect. The ASI Intends to	•	schedule, the DR p
			increased potential for system failure (i.e., due to the significant number of	maintain a detailed schedule for DevOps implementation tasks to avoid				update the BI-12 before go-live to reflect these changes/additions. 8/22/24	4.	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	h.			The ASI continues to make progress in building out the finalized list of		submitted at the e
			infrastructure and application-level bugs. Further, some components					infrastructure components into the BES platform. The ASI appears to have a	a	of the year. Remin
			remain in an immature state compared to their legacy counterparts. For					structured approach for building out and testing these components and the	ry	Pilot Go-Live is Apr
			example, the project recently experienced a system failure because Google					have reported success with some disaster recovery (DR) tests. 7/26/24 - No	0	2024.
			Cloud failed to clearly communicate a change that led to failure in another					material update for this reporting period. 6/20/24 - No material update for		
			component (i.e., Nexus). Google Cloud is generally viewed as a less mature					this reporting period. 5/31/24 - It remains unclear how infrastructure		10/31/2023 -
			product offering, compared to their rivals (Amazon Web Services, Microsoft Azure). IV&V remains concerned that this could lead to failures at critical					complexity will impact DR testing and execution. 4/30/24 - No material update in this reporting period. 3/31/24 - During a recent Change Control		Vic - westill do notunderstand why
										notunderstand why this remains.
			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					Board (CCB) meeting the ASI presented DHS with a for-cost change request (CR) to the design of the Secure Enclave (the addition of roles). In the CCB.		this remains. 10/11/2023
			eventually reduce M&O outsourcing costs turning over M&O tasks to State					was clear that DHS and the ASI were not in agreement regarding the funding		10/11/1013
			employees, they could face challenges supporting tools they may not be					of this change request. 2/29/24 - No material update in the reporting	•	
			familiar with in a complex infrastructure environment.					period. 1/23/24 - No material update in the reporting period. IVV continue	8	Please referenc
								to monitor this finding. 12/31/23 - No material update in the reporting		your updates on
								period. IVV continues to monitor this finding. 11/30/23 - Some components	3	finding #82 Security
								of the BES system infrastructure have yet to be finalized and tested, it		and Privacy which
								remains unclear how or if the added complexity will impact project		documents the wor
								schedules and budgets going forward. The ASI has reported they are close		being done for the
								to finalizing the Secure Enclave infrastructure to house FTI data. The ASI		Secure Enclave.
								appears to be making progress on DR plans and designs. 10/30/23 - The AS continues to have productive discussions with DHS during their weekly	ol .	
Insufficient configuration management Fors, Michael Finding -	8/23/2021 Configuration an	nd The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the	Configuration Management is a set of processes and procedures that	OPEN • ASI adhere to plans for configuration management as documented	d ASAP	2 2 Low	Open	9/26/24 - The ASI had recently stated they plan to update their		
could lead to development confusion and Risk reduce the effectiveness of defect resolution	Development	Configuration Management Plan, however, it remains unclear if sufficient		in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DH				Configuration Management Plan (CMP) list of configuration items (CIs) and		
			, includes tools that may provide a level of automation for Configuration					CMP procedures by 9/20/24 but has since experienced some delays in		
			e Management that may reduce errors and should provide the project team					completing these activities. 8/22/24 - IVV has yet to receive a detailed,		9/9/2024
			with accurate, dynamic and timely information on some of the configuration					comprehensive list of configuration items the ASI will be tracking. 7/26/24		Still in progress.
		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					No material update for this reporting period. 6/20/24 - No material update		to update
		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				for this reporting period. 5/31/24 - IVV has yet to receive a detailed,		Configuration
			management of the configuration items, reporting and audit features.	configuration management activities and assure defined CM steps and plan				comprehensive list of configuration items the ASI will be tracking. 4/30/24 - IVV has yet to receive a detailed, comprehensive list of configuration items		Management Plan
				are being followed, are effective, and are achieving DHS objectives for CM. 7/31/2022				IVV has yet to receive a detailed, comprehensive list of configuration items the ASI will be tracking. 3/31/24 - Responsibility for the Configuration		of items. Two documents.
				//31/2022				Management Plan (CMP) reverted to the ASI (previously, the DHS Security		management plan
								Contractor was updating the CMP for related security controls). The ASI is		(end of week),
								resuming this scope of work at a time when its resources are stretched and		Configuration
								may lead to CMP and configuration management quality challenges.		Management
								2/29/24 - No material update in this reporting period. 1/23/24 - No		procedures (more
								material update in the reporting period. 12/31/23 - The project will utilize		detailed). Workin
								the DHS contractor currently assisting with security activities to update the		with Mark M on v
								Configuration Management Plan (CMP). The scope of work that the DHS		should be include
								contractor is responsible for is unclear to IVV. 11/30/23 - The ASI has yet to		Trying to work wi
								provide a detailed list of configuration items to DHS and IVV. IVV has		folks who really
								restated this request to the ASI so that the level of detail is clear. 10/26/23	·	understand the d and are available
								The ASI provided broad information on the configuration items being		and are available
								tracked but have yet to provide detailed configuration items for IVV review.		and are available
								tracked but have yet to provide detailed configuration items for IVV review.  The ASI has deprioritized some configuration management activities, which		
								tracked but have yet to provide detailed configuration items for IVV review.  The ASI has deprioritized some configuration management activities, which it intends to perform in preparation for Maintenance and Operation (M and	1	10/31/2023 -
								tracked but have yet to provide detailed configuration items for IVV review.  The ASI has deprioritized some configuration management activities, which	d ed	10/31/2023 - Vic - We provided a
								tracked but have yet to provide detailed configuration items for IVV review. The ASI has deprioritized some configuration management activities, which it intends to perform in preparation for Maintenance and Operation (M and O). 9/28/23 - The ASI gained DHS' approval on the Items that will be tracke	d ed	10/31/2023 -

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