

STATE OF HAWAI'I | KA MOKU'ĀINA O HAWAI'I DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES | KA 'OIHANA LOIHELU A LAWELAWE LAULĀ

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

P.O. BOX 119, HONOLULU, HAWAII 96810-0119

April 16, 2025

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

Aloha Senate President Kouchi, House Speaker Nakamura, and Members of the Legislature:

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

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

Sincerely,

Christine M. Sakuda Chief Information Officer State of Hawai'i

Attachments (2)



Hawaii Department of Human Services Systems Modernization Project

Final IV&V Status Report for Reporting Period: March 1 – 31, 2025

Submitted: April 15, 2025



Overview

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

Executive Summary



March 2025 was the second month of the most recent BES Project Restart. IV&V notes improvement in the Project Management and Security and Privacy categories. Within Project Management, the project team executed the planned schedule (with a few adjustments), and evidence shows the ASI and DHS teams focused on the security and privacy work by remediating critical and high-rated findings. The project team also completed all Joint Application Design (JAD) sessions for the remaining functionality planned for the BES Pilot.

Challenging areas include:

- Development: The current schedule for the Customer Correspondence development work is planned to be completed one week before the start of System Integration Testing (SIT); this does not leave much time for the project team to resolve anomalies.
- Testing: Progress in resolving defects carried over from the last User Acceptance Testing (UAT) cycle has slowed due to blockers delaying completion. IV&V is concerned that the completion of all UAT defects before SIT may be at risk, which may cause DHS rework and schedule delays.
- Security: The ASI made good progress in March, completing the IV&V recommendation for rating security scans and making positive progress in remediating critical and high-rated findings. IV&V is concerned that some newly written policies might not be approved by DHS in time for the IRS submission planned for late April 2025, which could impact receiving IRS concurrence to move forward.
- Requirements Analysis and Management: The ASI continues to struggle with creating a standard Requirements Traceability Matrix report that provides validation to DHS and Federal oversight agencies that all contractual requirements have been fulfilled in the BES solution.

DHS and the ASI are well aware of the above concerns, and in addition to monitoring each of them, they are also working on mitigation plans should they be needed.

Jan	Feb	Mar	Category	IV&V Observations
Н	Н	M	Project Management	The project schedule has remained stable with minor changes, leading IV&V to lower the criticality rating for this category (and related finding) to Medium. However, the development phase, scheduled to finish just one week before System Integration Testing (SIT), will be closely monitored as a-potential risk to the project schedule.

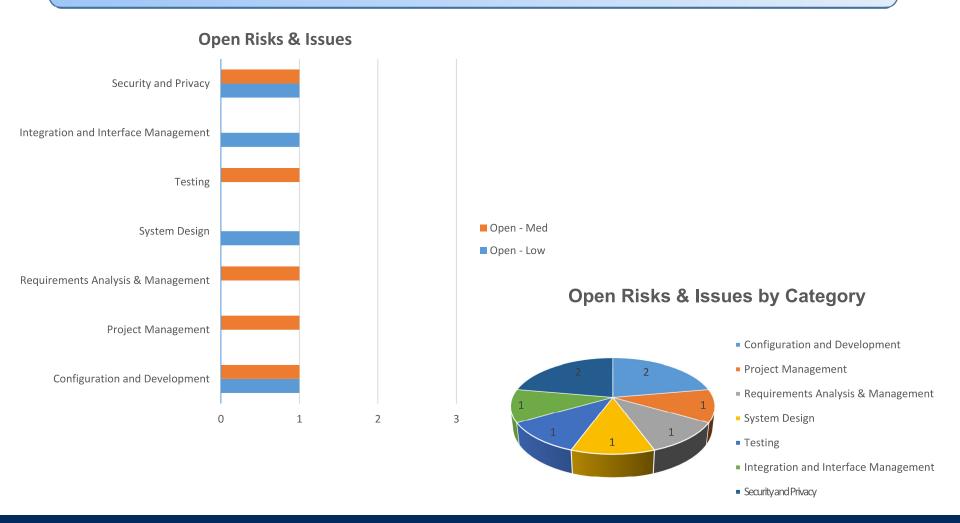
Executive Summary



Jan	Feb	Mar	Category	IV&V Observations	
L	L	L	System Design	This month, the final Joint Application Design sessions planned for BES were completed, along with the DHS validation of the related functional design updates.	
M	M	M	Configuration and Development	concerned about potential delays in the customer correspondence functionality and	
L	L		Integration and Interface Management The ASI is currently preparing test scripts to comprehensively test all interfaces during the SIT and UAT phases before the Pilot. This process involves conducting regression testing and retesting previously validated scripts to ensure compatibility with newly developed code that supports all requirements.		
M	M	M	Testing	IV&V is concerned about the slow pace of defect resolution for last year's UAT, only 3 high-priority, 1 medium-priority, and 3 low-priority defects were resolved during the month. All UAT defects must be resolved for SIT to start.	
M	M	M	Security and Privacy	The security infrastructure toolset is being evaluated and updated while the project team continues to work on the security policies, which must be fully approved prior to the next IRS Security Review at the end of April 2025. Unapproved policies may result in IRS corrective action plans.	
M	M	Requirements Analysis & Management The ASI continues to work on developing an RTM that will provide DHS the traceability each contract requirement (Functional, Technical and other) through testing and vice-v			

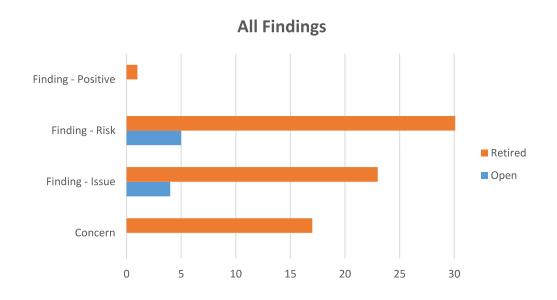


As of the March 2025 reporting period, PCG is tracking 9 open findings (5 risks, 4 issues) and has retired 81 findings. Of the 9 open findings, 5 are Medium, and 4 are Low.





The following figure provides a breakdown of the 90 IV&V findings (positive, risks, issues, concerns) by status (open, retired).





Findings Opened During the Reporting Period

#	Finding	Category
	None	



Findings Retired During the Reporting Period

#	Finding	Category
	None	



Preliminary Concerns Investigated and Retired 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 BES project schedule was relatively stable this month (minor changes were made), with a few tasks delayed while others were completed earlier than planned. IV&V is updating the criticality rating from High to Medium. However, we continue to monitor the minimal slack time between the completion of development and the beginning of System Integration Testing.	M

Recommendations	Progress
 Monitor, evaluate and revise scheduling estimates for accuracy based on the project teams past performance and resources available to do the remaining work. 	Completed
 Any work required to address findings from Root Cause Analysis should be included in the revised schedule to validate completion for DHS. 	In Process
 Elaborate the schedule to include the detailed work and tasks required behind milestones, allowing better tracking and visibility of possible issues and delays at the task level. 	Completed
 ASI develop a mitigation plan for minimal amount of slack time between development completion and start of SIT. 	New



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.	L
	No material update in the reporting period.	

Recommendations	
 ASI develop a process to closely monitor cloud and other product changes (software updates/new releases), manage changes, and regression test once updates are applied. 	In Process
The project team work to establish strong governance over the utilization and maintenance of various tools/components.	In Process
 ASI allot time in the schedule to conduct proof of concepts to assure infrastructure components work as expected. 	In Process
ASI maintain a detailed schedule for DevOps implementation tasks to avoid unexpected delays that could delay project milestones and the critical path.	In Process



Configuration and Development

#	Key Findings	Criticality Rating
70	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution.	
	The ASI has reported progress in updating the project Configuration Management Plan (CMP).	

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



Configuration and Development

#	Key Findings	Criticality Rating
	Issue – Development delays have negatively impacted the project schedule and delayed go-live.	
80	The ASI completed the JAD sessions for the BES Pilot. The Change Request (CR) for customer correspondence functionality was identified as requiring substantial effort and is scheduled for completion by the end of the development phase. IV&V continues to express concern that, based on past performance, any disruptions affecting correspondence may leave the project with minimal time to respond without extending the pilot go-live date.	M

Recommendations	Progress
 ASI provides 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. 	Closed
 IV&V recommends the project closely monitor progress on the customer correspondence CR and create a mitigation strategy to avoid delays. 	New



Integration and Interface Management

#	Key Findings	Criticality Rating
93	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. The technical testing subtests have begun to be written. Each interface will have a script to test failure conditions such as malformed fields and files.	L

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



Testing

#	Key Findings	Criticality Rating
	Issue – Gaps in test coverage and slower-than-expected progress in testing may result in schedule delays if subsequent test phases uncover a higher volume of defects and user feedback than initially anticipated.	
02	As of March 26th, the ASI is addressing previous testing cycle defects, with 154 defects (37 high, 83 medium, 34 low) in "Ready for UAT" (fix complete, not deployed to UAT environment) status and 26 defects (15 high, 3 medium, 8 low) "In UAT" (fix deployed to UAT environment) status.	M
83	A comparison with last month's progress reveals the ASI closed 3 high-priority, 1 medium-priority, and 3 low-priority defects. Unless the ASI's performance increases, this may result in a situation where the defects are not resolved prior to the start of the next testing cycle, continuing this risk to the project. IV&V is concerned the pace of defect resolution may delay the next testing cycle and impact the project's go-live date. IV&V emphasizes the need for immediate attention to accelerate defect resolution to avoid project delays.	

Recommendations	Progress
 DHS and ASI revisit the testing approach to prioritize completion of remaining test activities and conduct comprehensive System Integration testing (SIT) to minimize defect leakage to User Acceptance Testing (UAT). 	In Progress
 ASI assesses the potential impact of the large number of unresolved defects on future development efforts, ensuring a more robust and efficient development process. 	In Progress
 ASI develop and implement a revised testing approach to improve the completeness and thoroughness of future testing cycles. 	In Progress



Security and Privacy

#	Key Findings	Criticality Rating
82	Issue – The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan (SSP). Last month, IV&V reported that the ASI has dropped MongoDB from the Secure Enclave after evaluating IRS Publication 1075-compliant alternatives and is converting to Google Firestore. However, the ASI has also replaced IBM Filenet in the Secure Enclave with Google Firestore. The ASI and DHS have continued working on the NIST 800-53R5 Security Policies. In addition to the 6 policies the ASI had submitted to DHS and received feedback 14 other policies were updated based on the feedback and are currently waiting internal review prior to submission to DHS. DHS has a Safeguard Security Report (SSR) due to	L
	the IRS at the end of April. The policies that are being written for the BES System need to be reviewed and approved by DHS and the process for system level policies is being worked on by DHS. However, IV&V is concerned that the newly written policies will not be approved prior to the IRS SSR submission.	

Recommendations	Progress
 Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. 	In Process
 Include the Secure Enclave within the work breakdown structure along with the known tasks related to the IRS Assessment to continue receiving FTI in BES. 	In Process



Security and Privacy

#	Key Findings	Criticality Rating
	Risk – Critical and high vulnerability and configuration scan findings are not remediated within the documented timeframes, potentially impacting the project schedule and causing delays.	
100	The ASI completed the IV&V recommendation to rate the criticality of configuration scans and made progress on remediating findings that are rated critical and high. At the time of this writing, BES had 20 critical findings open or in progress outside the 15-day remediation timeframe, and one critical finding was within the timeframe. BES had 22 high-rated findings open or in progress outside the 30-day remediation timeframe, and five high-rated findings were within the timeframe. It should be noted that remediation on some single POAM items in the list may require patching or configuration changes on multiple hosts (from development environments to production environments) and are listed as in progress while these changes are being applied across multiple hosts.	M

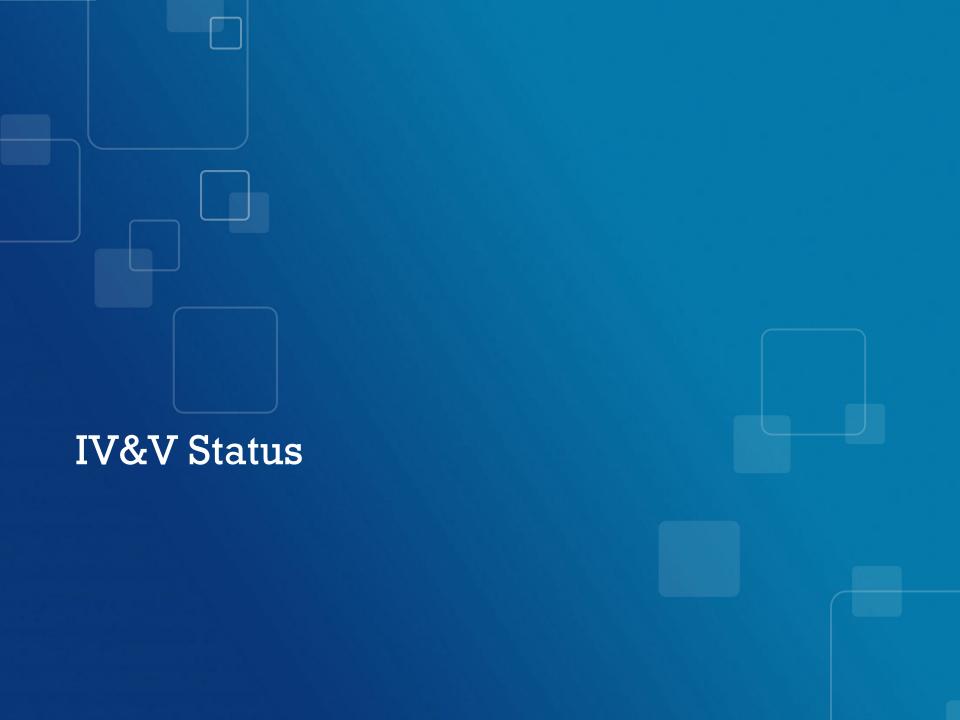
Recommendations	Progress
 Rate Configuration scan result failures and how they impact the security of the BES system (Critical, High, Medium, and Low) instead of simple pass/failure results. In January 2025, 82 critical and High-finding POA were listed due to the Tenable configuration scan results. The POAMs for configuration scans are now liste as "failed"; due to the binary nature of the scan engine and does not rate the criticality of the system configuration on the business operation of how the hosts are used. 	
 Update the BES Vulnerability Management Procedures document with the Jira ticketing process and workfle from vulnerability and configuration scan remediation with who owns each step. 	In Progress
Implement an escalation process to involve senior leadership if deadlines are missed.	In Progress



Requirements Analysis & Management

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	#	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 hosted a Requirements Traceability Matrix (RTM) report walkthrough meeting on 3/21/25 with DHS and IV&V to provide updates on the creation of their report. This report was for functional requirements only. ASI stated they would work on producing an RTM that will provide DHS the traceability of each contract requirement (Functional, Technical and other) through testing and vice-versa.	M	

Recommendations				
 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			
 Develop a deliverable that provides an audit trail for changes to the requirements from the contract such as obsoleted requirements, when that decision was made, and the change requests. 	Not Started			
 Provide weekly updates about the clean-up efforts in JIRA regarding incorrect statuses of epics, use case, and requirements. 	New			



IV&V Engagement Status



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

	Engagement Status Legend	
gagement area is acceptable eters.	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 March reporting period:
 - Completed February 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 April 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-05 Project Schedule	3/13/2025 3/26/2025	N/A
CR2024-009 HAWI Notices Conversion	3/13/2025	V0.1
BI-02 Project Status Report	3/5/2025, 3/12/2025, 3/19/2025, 3/26/2025	NA

Additional Inputs – Artifacts



Artifact Name	Artifact Date	Version
BES 2023 Design Kanban board	N/A	N/A
FNS Handbook 901	01/2020	V2.4
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	12/20/2020	Rev.5
SNAP_System_Integrity_Review_Tool	Sept 2022	N/A
Interface Dashboard – Confluence page	N/A	N/A
BES 2023 Implementation Planning – Confluence page	N/A	N/A
R0.12 Epic Assignment	N/A	N/A
R0.12 Epic and Sprint Demo Recordings	N/A	N/A
ADA dashboard	N/A	N/A
Jira Requirements Details	N/A	N/A
Jira Testing Lists	N/A	N/A
UAT Testing Dashboard	N/A	N/A
Waterfall Methodology Plan	N/A	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. IV&V Team Meeting 3/3/3025, 3/5/2025, 3/10/2025, 3/12/2025, 3/24/2025, 3/26/2025, 3/31/2025
- 2. IV&V/ASI January Pre-draft Review 3/5/2025
- 3. HI DHS BES February Draft IV&V Report Review 3/13/2025
- 4. Bi-Weekly DHS BES PMO/IV&V Check-in 3/13/2025
- 5. Bi-Weekly DHS and IV&V Touch Base 3/4/2025, 3/19/2025
- 6. Weekly BES Infrastructure meeting 3/7/2025, 3/14/2025, 3/21/2025
- 7. Weekly Client BES 2023 Project Status Meeting 3/12/2025
- 8. Security Touchpoint 3/5/2025, 3/12/2025, 3/19/2025
- 9. (Externa(I) Weekly Interfaces Touchpoint 3/3/2025, 3/10/2025, 3/24/2025, 3/31/2025
- 10. (External) Bi-weekly BES CCB Meeting 3/5/2025, 3/19/2025
- 11. (eWorld/IV&V Mid-Month Check-in 3/20/2025
- 12. (External) BES: FNS Connect 3/6/2025
- 13. (External) Day 2 Final Approval for CR2024-017 BES 1.0 Correspondence Enhancements 3/3/2025
- 14. (External) CR2024-019, 024, & 025 FD Comment Review Meeting 3/5/2025
- 15. (External) Testing Related Follow-up meeting 3/13/2025
- 16. (External) CR2025-028 HYCF/DPS Interfaces AND CR2025-029 DOH Update frequency to quarterly for DOM and DOB request/response 3/14/2025
- 17. (External) JAD CR2024-013 DHS Application Packet Multiple Correspondences 3/19/2025
- 18. (External) BES RTM Report Walkthrough Meeting 3/21/2025, 3/27/2025
- 19. OPA Discussion and Walkthrough 3/28/2025
- 20. (External) BI-17 Deliverable Comments Review Meeting 3/31/2025





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						Analyst	Finding			
10 Toke and high violated by a 2 of 106 Coxe and high violated by a 106 Coxe and highly service considerate which this documented timeframes.	Reporter Finding Heath, Dustin Finding Risk	Identified Category Date Category 2/28/2025 Security and Privacy	Distriction The BS system does not currently emending critical subreadations and The BS system does not currently emending critical subreadations are not remediated within 3th day as required by the BES Vulnerability Managemen Procedures document.		Update the BSS Vulnerability Management Procedures document with the Jira Schelleg process and workflow from vulnerability and configuration can remediation with who canne such tasks Implement at escalation process to involve serior leadership if deadlines are missed. CDMPLETE Rate Configuration scan rocal failures and love they impact the scorify of the Bild severes (Cottau), high, Medians, and Love Jistop and of impe- ted the configuration can rocal failures and love they impact the scorify of the Bild severes (Cottau), high, Medians, and Love Jistop and of impe- ted the configuration can rocal failures and love they impact the scorify of the Bild severes (Cottau), high, Medians, and Love Jistop and or Jistop were listed due the Inesable configuration can results. The POMMs for		mpact Probability 3	Analyst Priority 3 Med	Finding Status Open	Street Vester: 0.0212/021 — The AC completed the WY recommendation to rate the 0.0212/021 — The AC completed the WY recommendation to rate the 0.0212/021 — The AC completed the Vester of the AC complete of the Vester of the V	Client Comments	Vendor Comments
54. The lack of an effective way to salidate BES requirements could least to procet delays and unfulfilled user needs IT DHS later identifies unmet contractual requirements.	i Morrill, Scott Finding - Risk	4/25/2024 Requirements Analysis & Management	The Requirements Traceability Matrix (RTM) (8:21) plays a wital rode in resurving the system's compliance with contractual commitments by associating each requirement with passed test case(s). However, the approved project should be basis the RTM completed on siP3/214, which falls after the Core ST end decision on S1/01/24. The ASP provided the 8-1229 yaten Integrity Review Cold (SRTT) to Disk April 18, 2023, but when the deliverable due to DHS concerns. This 89-122a deliverable may help DHS validate requirements.	criteria. This could lead to DHS starting Final Acceptance Testing (FAT) and then	configuration scans are now listed as "failed"; due to the binary nature of the scan empire and dise can reat the critically of the system configuration and the initiative constitution of the scan empire and configuration of the scans and the configuration of the scans and the configuration of the conf	45422	3	3 Med	Open	378/25. The ASI hosted a Requirements Traceability Matrix (RTM) report wildstrough meeting on 3/21/25 with DMS and MV to provide update on the creation of their report. This report was for fractional requirements only. ASI stated they would work on producing an RTM that will provide DMS the traceability of each contract requirement Functional, Technical and other phrough tracting and vice versa. 2/36/20/5. The ASI continues to sunk on delivering an RTM that CRE can be the value regiment gener from the Method per reject team meeting on 2/20/25 between ASI and MV include.		9/9/2024 Include information or interim version provided prior to FAT. 7/12/2024 I'm not sure if this is worth noting but
					decision was made, and the Change requests. -Provide weekly updates about the clean-up efforts in JRIA regarding incorrect statuses of epics, use case, and requirements.					incorrect status. There are two Eccasis in Ira which have been obsoleted but still have active requirements that receit to be updated. There are two Eccasis in Ira which have completed to the order of the status of the product of the correct status. The ASI status frieng those key outstanding laren will then to produce a comperisonive and updated IRIM. JUNIODA: At the CCD meeting on JUNIODA: the ASI shared their progress on admissing tower with the functional requirements in Iran. This operages on admissing tower with the functional requirements in Iran. This operages not admissing tower with the functional requirements in Iran. This operages not admissing tower with the functional requirements in Iran. This operages not admission of JUNIODA with the Iran. Requirements Traceability Matrix (EMI) reports. The ASI glains to review the current RTM progress the next CCD meeting of JUNIODA. When Iran. JUNIODA: The ASI housed a meeting to review usage of the CUT return ESI. JUNIODA: The ASI housed a meeting to review usage of the RTM, but all interactives asserted move work was needed to condition usages.		worth neong out worth neong out worth neong out worth neong out with the state of the requirement criteria for entering into BES 1.0 FAT. O6/14/2024 The BI-2.2 RTM deliverable has been decreased an above decreased with the state of the control o
30 Des to the lack of physical and scholical tasting of this interies and data transfer delivers, conditions may easi with data. The conditions may easi with data that the conditions may easi with data that the conditions are considered as the conditions of the conditions are considered as the conditions of the conditions are conditions as the conditions are conditioned as the condition are conditioned as the condition are conditioned as the conditioned as the condition a	Mark Evan Risk	4/29/2024 Integration and from the first of	Aside from the functional testing economistived during ego: testing, specific data flow testing is usually part of an interface definition. After examining the Protect's 8.1.1 (A Dathboards, 8.1.1 Traceability	This testing is essential before intail deployment to prevent unexpected and infinitellate-received enricing data — or the system may lavie a fault or exception. Since the Project has not established and tested that fault testingly, we do not know how the system may react tested that fault testingly, we do not know how the system may react.	* API interfaces should be totated for failure conditions during connection and transfer operation. *FIP and file interfaces should be tested for data and file integrity. *Test data fields fro system impacts reaching from data that is poorly formatted, or of range, or other unexpected data transmission errors. Removed * [Not applicable—No transactional interfaces, therefore no race conditions.] API interfaces do not require race conditions testing. *Pleclanistists with other recommendation! FilePleclanistists with other recommendation! Formatting errors in interface records and files is covered under existing test cases.	2024 2nd Oir			Open	JAJ10023—The technical testing subtents have began to be written. Each interface will have a circle to test faller occitions such as malformed infects and file. JAJ10023—The technical testing interface test scripts are being prepared to ensure comprehensive testing of all interfaces, including the neteriting of envisive performed tests to validate across year demands to the determination of the scripts of the product of t		Op/14/2024 As mentioned at the May pre-med, a sectioned at the May pre-med, a section all indice self-templified in the section plan does exist of the foreign pre-med, and the foreign pre-med, a section of the foreign plan does exist to a defense of the section
3. Supple in lest coverage and observe that it is to be a less than the control of the control of the control schools delay in decision that the phose uncover a higher volume of defects and us feedback than instally anticipated.	Issue	6/2/2023 Testing	Dashboards, and Test Repository, gaps in testing coverage may exist and the progress of testing might be lagging. Concerning testing coverage, it appears that not all epics and use cases in RL1 have associated test cases or are testing the correct use cases. In terms of progress, some test cases remain unexcuted, and not all diefects have been resolved as the project.	and cost-effective to address issues during the early testing stages. If there is a low progress or incomplete testing in the early stages, it can result in more defects leaking into subsequent testing phases, necessitating more extensive and rigorous testing efforts. Insufficient testing coverage or slows	- DHS and ASI revisit the testing approach to prioritize completion of remaining test stathties and conduct comprehensive System Integration testing [SIT] to minimize defect leskage to User Acceptance Testing (UAT), 1-ASI assesses the potential impact of the large number of unresolved defects on future development efforts, ensuring a more robust and efficient development process	UAT	4	4 Med	Open	AS/AS/2022. As of March 28th, the ASI is addressing proteon stening cycle. ASI is addressing to the ASI is addressing proteon stening cycle. ASI is addressing to the ASI is addressing and the ASI is addressing to the ASI is addressing and propertially push back the go live date, impacting the project to deed did.		3/13/2025 Our edvord Text Our edvord Text Less that the needed size shall be not

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12 The lack of technical documentation may Heath, Dustin Finding - lead to incorrect implementation statements Issue	Identified Date Category	Observation	Significance	Recommendation	Event Horizon Impa	Analyst ct Probability Priority	Finding Status	Status Update Clie	ent Comments Vend	endor Comments
	4/27/2023 Security and		Once the system architecture and design have been completed, the SSP			2 2 Low	Open	3/31/2025 — Last month, IVV reported that the ASI has dropped MongoDB from the Secure Enclave after evaluating IRS Publication 1075-compliant		13/2025
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 of the SSP is scheduled to be published August 15th , 2023, and the final SSP	Collaborate and communicate with SSP authors about when reliable and correct documentation will be available.	the third-party			from the Secure Enclave after evaluating IRS Publication 1075-compliant alternatives and is converting to Google Firestore. However, the ASI has also		13/2025 e pointed out
or delay the System Security Film			(ready for federal partner review) is scheduled for September 15, 2023. The		azaezament.			replaced IBM Filenet in the Secure Enclave with Google Firestore. The ASI		llowing project
		Implementation statements are currently being written from the perspective	SSP is a large technical document with hundreds of controls and control	with the known tasks related to the IRS Assessment to continue receiving FTI				and DHS have continued working on the NIST 800-53R5 Security Policies. In	sched	hedule tasks as i
		of how the system should be designed from the SSP author's perspective	enhancements, and each one requires an implementation statement of how	in BES.				addition to the 6 policies the ASI had submitted to DHS and received	relate	lates to Secure
		instead of how the system is actually designed. The SSP authors need to	the control or enhancement has been met.					feedback 14 other policies were updated based on the feedback and are		clave. (email
		know and use documentation such as System Architecture and Design,		COMPLETE				currently waiting internal review prior to submission to DHS. DHS has a Safeguard Security Report (SSR) due to the IRS at the end of April. The	show	owed snip of pro
		network topology, dataflow, ports and protocols, tools used for logging, etc.		Determine when the infrastructure design baseline will be completed. (06/30/2024)				Sateguard Security Report (SSR) due to the IRS at the end of April. The policies that are being written for the BES System need to be reviewed and	sched	hedule with secu clave called
				Perform a full review of all draft SSP controls for content and accuracy				approved by DHS and the process for system level policies is being worked		t)Also,
				prior to the start of the Independent Security Controls Assessment of BES				on by DHS. However, it does not appear the newly written policies will be	ment	entioned is the w
				and submission of the SSP package to federal regulators. This will allow the				approved prior to the IRS SSR submission		ed to Epic 278 in
				SSP authors to update controls with changes from Design through						a:[BES-329] 27
				Implementation. (9/26/2024) - Begin monthly Plan of Action and Milestone update meetings between DHS				2/28/2025—The ASI and DHS have been collaboratively working on the NIST 800-53R5 Security Policies per the NIST 800-53R5 control family that will be	Secur	cure Enclave - a for the followin
				Security and the ASI Security teams to inform each other of progress and	'			used for the BES System. Drafts for each policy have been created, with 12		a for the followin oject schedule
				updates made against each POAM. (10/31/2024)				ready for internal review. DHS has reviewed several of the policies and	tesko	sk:At a minimu
								provided additional instruction as to how they should be structured. The ASI	the p	e progress should
				CLOSED - Moved to Risk #106				has dropped MongoDB from the Secure Enclave after evaluating IRS	chang	ange from "Not
				IV&V recommends prioritizing the 82 Critical and High finding POAMs as a result of the Tenable Nessus Configuration scans. Implementing the				Publication 1075 compliant alternatives and is converting to Google Firestore. Considering that a majority of the documentation and artifacts		arted" to "In ocess". I would like
								are completed or nearing completion and the extended schedule. IV&:V		sync up further to
				become unfunctional, and require additional development time to fix.				has changed the criticality of this issue to low.	discu	
									recor	commendation #2
								1/27/2025 - The ASI has rewritten most of the System Security Plan (SSP)	if you	you have specific
								responses to meet the requirements of NIST 800-53. They also have worked on writing new security policies for BES. Of the 19 policies to be written at	infor	formation you wo
IO Development delays have negatively Fors, Michael Finding -	6/30/2022 Configuration and	1 ASI had previously reported development activities have been slowed as	If the ASI is unable to achieve a velocity that enables them to meet planned	OPEN	Immediate	3 3 Med	Open	3/31/2025 - The ASI completed the JAD sessions for the BES Pilot. The	like ti	e to see on the
impacted the project schedule and delayed Issue	Development	they have been unable to achieve and/or maintain their expected	milestones, schedule delays may lead to a delayed system go-live date	. ASI provides DHS with the time needed to effectively evaluate the software		0	open	Change Request (CR) for customer correspondence functionality was		
go-live.		development velocity. Previously, the development team was challenged	Failure to achieve a level of accuracy in estimating development tasks could	demonstrations (demos) and elicit productive design discussions with DHS				identified as requiring substantial effort and is scheduled for completion by		
		with accurately estimating development task level of effort (i.e., story						the end of the development phase, IVV continues to express concern that.		13/2025 Perhaps
		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	The project closely monitor progress on development efforts that are				based on past performance, any disruptions affecting correspondence may		the next MSR we
		schedule that accurately reflects realistic timelines (see Finding #74). The ASI continues to be challenged with finding qualified resources in a timely	ASI BAs lacking the expertise required to create optimal designs and system specifications that developers could consume without requiring extensive					leave the project with minimal time to respond without extending the pilot go-live date.		ould review the distanding
		ASI continues to be challenged with finding qualified resources in a timely manner.	specifications that developers could consume without requiring extensive clarification from the ASI BA/SA team. DHS and IVV observed instances	According to desire unitarys.					outst	rtstanding commendations to
				COMPLETE				2/28/2025 - The ASI recently submitted an Improvement Plan to DHS that	ensur	sure progress stat
			DHS (who may lack software or UI design expertise) to improve, which has					included improvements to address their software development challenges.	is refi	reflected accurate
			contributed to unproductive design sessions (see Finding #61). It remains	CLOSED				They have reported ongoing improvements because of their reorganization	09/09	/09/2024
			unclear if scope creep has contributed to these delays.	ASI regularly report metrics that accurately track the total amount of				of the development team, implementing more rigorous software		confirmed that 5
				remaining work to reach go-live and present a dynamic burndown chart to clearly display progress to stakeholders. (closed 3/31/2025)				development and release practices, thorough unit testing and peer reviews, and the addition of senior skilled resources.		c confirmed that 5 velopers have bee
				ASI effectively track and regularly provide DHS (potentially via the weekly)				and the addition of serior swited resources.		ided to project.
				DDI status meeting) with an accurate velocity (e.g., story points per				1/31/2025 - The ASI conducted a project restart kickoff on 1/23/2025		
				day/week/month) and assure that the current velocity is accurately and				where they intend to implement several development (and other) process		
				consistently reflected in the project schedule (closed 2/28/2025)				improvements to increase the quality and efficiency of development. Key	05/1:	/11/2024
				 DHS request the ASI strategically add the right project team resources to effectively increase velocity. Note that adding additional junior resources 				issues they intend to address include development quality, testing quality, and accumulated technical debt. Mitigation strategies include implementing	A . 40	discussed at pre-
				may not be as effective as staffing additional expert-level development,				switching development methodologies from agile to waterfall, improving	AS DI	discussed at pre-
				analysis, and other resources that can lead and mentor junior resources.				development discipline and structure, increasing the comprehensiveness of	devel	eet, the velopment team h
				ASI reviews the development process and identifies and mitigates the				testing, and bolstering their domain knowledge by onboarding additional	been	en primarily focus
				challenges preventing them from incorporating Epic demo activities into the				subject matter experts.		fixing BES 1.0
				project schedule. (9/29/23 - ASI will not be doing this, with DHS approval)						fects. DDI work for
				 ASI consider taking steps to increase code quality, including enhancing the depth of developer unit testing, tracking and proactively preventing leakage, 				12/31/2024 - The ASI continues to make efforts to enhance development		S 1.1 and 1.2 are rthcoming.
				and enforcing effective coding standards and good governance.				quality and efficiency. They have recently onboarded a senior development	10109	to coming.
4 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	Immediate	3 3 Med	Open	quality and efficiency. They have recently onboarded a senior development 3/31/2025 - The BES project schedule was relatively stable this month		
estimations diminishes effective planning Issue	Management	results that have not yielded improvement. Concerns with the structure,	constant schedule changes, resources not being available when needed,	- Monitor, evaluate and revise scheduling estimates for accuracy based on				(minor changes were made), with a few tasks delayed while others were		
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,					completed earlier than planned. IV&V is updating the criticality rating		
result in late deliverables, cost increases,		of multiple tools to track resources obfuscate resource management.	low quality output, scope changes, and budget issues.	remaining work. - Any work required to address findings from Root Cause Analysis should be				from High to Medium. However, we continue to monitor the minimal slack		13/2025
and a late go-live.		Previous IV&V findings focused on specific schedule components such		 Any work required to address findings from Root Cause Analysis should be included in the revised schedule to validate completion for DHS. 				time between the completion of development and the beginning of System Integration Testing.	The	e updated oject schedule was
		as resource management and critical nath analysis all of which were		Elaborate the schedule to include the detailed work and tasks required				integration resting.	proje	oject schedule was viewed by DHS and
		as resource management and critical path analysis, all of which were addressed and closed.		behind milestones, allowing better tracking and visibility of possible issues				2/28/2025 - The ASI received final approval from DHS on the revised		keholders. All
				and delays at the task level.				schedule, which was baselined and shared to project team on 2/12/2025.	feedt	edback/comments
				- ASI develop a mitigation plan for lack of slack time between development				The first schedule review for the re-baselined schedule was held on	were	ere addressed and
				completion and start of SIT.				2/26/2025, with several tasks showing a delayed finish date and others with		dates made
								earlier completion dates; with one significant change of 44 days. Although none of these changes directly added risk to the schedule, IV&V	accor (up.)	cordingly. What ar &V's concerns abo
								remains concerned that underestimated tasks could start to impact the	the s	e schedule's level o
				COMPLETE				critical path and delay implementation dates.	detail	tails that perhaps
				ASI conduct a Root Cause Analysis (RCA) with DHS and IVV to determine why					was	as not raised
				the BES project continues to experience schedule delays.				1/31/2025 - At the end of the month, the ASI was working with all	durin	ring the review
				- ASI Project Management works with the development teams to evaluate				stakeholders to finalize and baseline a new project schedule. The Draft Schedule published by the ASI includes 18 additional months to complete		riod?Please ovide more details
				the accuracy of development velocity and adjust accordingly to reduce risk in the revised BES project schedule.				Schedule published by the ASI includes 18 additional months to complete the project. Once the schedule is finalized. IVV will monitor the stability of		ovide more details garding inaccurate
				*ASI provides Burndown charts that provide visibility into the remaining				the schedule - looking for any recurrence of task completion being delayed	estim	timates. As
				work.				as observed in prior schedules (potentially putting critical project milestones	ment	entioned at the
				- ASI provide details on how Velocity measures were used to calculate the				at risk if significant delays). One key aspect of the revised schedule is the	draft	aft report meeting
								identification of the tasks to implement the actions from the Root Cause Analysis to minimize the risk of another future schedule delay. The ASI did		e 44 day reference
				remaining development work. ASI conduct a Root Cours Analysis (RCA) with DHS and BO to determine						
				-ASI conduct a Root Cause Analysis (RCA) with DHS and IVV to determine				publish a high-level report on the Root Cause Analysis. However, it was not	rand	slide 12 was a
				 -ASI conduct a Root Cause Analysis (RCA) with DHS and IVV to determine why the BES project continues to experience schedule delays. 				publish a high-level report on the Root Cause Analysis. However, it was not clear how these changes were planned in the revised schedule.		
				-ASI conduct a Root Cause Analysis (RCA) with DHS and IVV to determine why the BES project continues to experience schedule delays. DHS and the ASI agree to a revised schedule against which project				clear how these changes were planned in the revised schedule.	reque	slide 12 was a sult of DHS
	10/28/2021 System Design	Current ASI infrastructure plans include a significant number of		 -ASI conduct a Root Cause Analysis (RCA) with DHS and IVY to determine why the BES project continues to experience schedule delays. DHS and the ASI agree to a revised schedule against which project +ASI develop a process to closely monitor cloud and other product changes 		2 2 Low	Open		reque state	slide 12 was a sult of DHS questing more stewide training
which could be difficult to implement and Risk	10/28/2021 System Design	sophisticated components that make up a complex cloud infrastructure.	infrastructure is not accurately accounted for and staffed by the ASI, the	-ASI conduct a Root Cause Analysis (RCA) with DHS and RV to determine why the BES project continues to experience schedule delays. DHS and the ASI servee to a revised schedule assimst which project - ASI develop a process to closely monitor cloud and other product changes software updates/new releases), manage changes, and regression test once		2 2 Low	Open	clear how these changes were planned in the revised schedule. 3/31/2025 - No material update.	reque state: 2/13,	slide 12 was a sult of DHS questing more stewide training 13/2025 Perhaps
	10/28/2021 System Design	sophisticated components that make up a complex cloud infrastructure. Further, the Project Team has yet to finalize components that will make up	infrastructure is not accurately accounted for and staffed by the ASI, the project could be met with unexpected costs and schedule delays. Delays in	ASI conduct a Root Cause Analysis (RCA) with DHS and INY to determine why the BES project continues to experience schedule delays. DHS and the ASI sarree to a revised schedule against which project ASI develop a process to closely monitor cloud and other product changes (software updates/new releases), manage changes, and regression test once changes(updates are applied.		2 2 Low	Open	clear how these changes were planned in the revised schedule. 3/31/2025 - No material update. 2/28/2025 - The project continues to build out of some infrastructure	requestate 2/13, for the	slide 12 was a sult of DHS questing more stewide training 13/2025 Perhaps r the next MSR we
which could be difficult to implement and Risk	10/28/2021 System Design	sophisticated components that make up a complex cloud infrastructure. Further, the Project Team has yet to finalize components that will make up the BES infrastructure and the additional costs and time to configure, test,	infrastructure is not accurately accounted for and staffed by the ASI, the project could be met with unexpected costs and schedule delays. Delays in finalizing the components being implemented could exacerbate this risks	-AS conducts a Boot Cause Analysis (RCA) with DHS and MV to determine why the BES protect continues to experience schedule delays. DHS and the ASI sarree to a revised schedule arasinst which protect: * ASI develops a process to closely monitor cloud and other product changes (postware update/new releases), manage changes, and regression test once changes/updates are applied. The project team work to establish strong governance over the edilization		2 2 Low	Open	clear how these changes were planned in the revised schedule. 3/31/2025 - No material update.	requestates 2/13/ for the should	slide 12 was a sult of DHS questing more stewide training 13/2025 Perhaps r the next MSR we ould review the
which could be difficult to implement and Risk	10/28/2021 System Design	sophisticated components that make up a complex cloud infrastructure. Further, the Project Team has yet to finalize components that will make up	infrastructure is not accurately accounted for and staffed by the ASI, the project could be met with unexpected costs and schedule delays. Delays in finalizing the components being implemented could exacerbate this risks and lead to further delays. Complex platforms often present system maintenance and operations challenges as system changes can hold the	AS conducts Root Cause Analysis (RCA) with CH Sea of My to determine why the BES project continues to apperience between CH Sea of My to determine by the BES project continues to a present content of the CH Sea		2 2 Low	Open	clear how these changes were planned in the revised schedule. 3/31/2025 - No material update. 2/28/2025 - No material update. 2/28/2025 - The project continues to build out of some infrastructure components for the Source Enclave. The ASI recently elected to switch from Mongolib to GOP Count Firestore (which is already IRS 1975 Assured Worklass or conglisher for the Secure Enclave.)	requestate 2/13, for the should constitute	slide 12 was a sult of DHS questing more stewide training 13/2025 Perhaps r the next MSR we
which could be difficult to implement and Risk	10/28/2021 System Design	sophisticated components that make up a complex cloud infrastructure. Further, the Project Team has yet to finalize components that will make up the BES infrastructure and the additional costs and time to configure, test,	infrastructure is not accurately accounted for and staffed by the ASI, the project could be met with unexpected costs and schedule delays. Delays in finalizing the components being implemented could except that this risk and lead to further delays. Complex platforms often present system maintenance and operations challenges as system changes can hold the increased potential for system failure (i.e., due to the significant number of	-Asc candoct a Root Cause Analysis (RCA) with DHs and MY to determine why the BES project, behalf to all the Canada and the Product changes - Act develop a process to closely monitor closed and other product changes - Act develop a process to closely monitor closed and other product changes - Act develop a process to closely monitor closed and other product changes - Act develop and control of the Canada and maintenance of the windows system conduction and maintenance of the windows system and the Canada and maintenance of the windows system and maintenance of the windows system and the Canada and maintenance of the windows system and the Canada and the	· months	2 2 Low	Open	clear how these changes were planned in the revised schedule. 3/31/2025 - No material update. 2/28/2025 - The project continues to build out of some infrastructure components for the Secure Enclave. The ASI recently elected to switch from Moregoob to CCL out Firestore (which is already (RSI STS Assured Norgoob to CCL out Firestore (which is already (RSI STS Assured Norgoob to CCL out Firestore (which is already RSI STS Assured	requestates states 2/13, for the control of the control control of the control	slide 12 was a suit of DHS questing more atewide training 13/2025 Perhaps in the next MSR we ould review the instanding commendations to sure progress state
which could be difficult to implement and Risk	10/28/2021 System Design	sophisticated components that make up a complex cloud infrastructure. Further, the Project Team has yet to finalize components that will make up the BES infrastructure and the additional costs and time to configure, test,	infrastructure is not accurately accounted for and staffed by the ASI, the project could be met with unexpected corts and schedule delays. Delays in finalizing the components being implemented could exacerbate this risks and lead to further delays. Complex platforms often present system maintenance and operations challenges as system changes can hold the increased potential for system failure [i.e., due to the significant number of Aquottnowing partisbucocit) and increases the level of time and affort to	Advantage 1 April 2004 1 April	· months	2 2 Low	Open	clear how these changes were planned in the revised schedule. 3/31/2025 - No material update. 2/28/2025 - No material update. 2/28/2025 - The project continues to build out of some infrastructure components for the Source Enclave. The ASI recently elected to switch from Mongolib to GOP Count Firestore (which is already IRS 1975 Assured Worklass or conglisher for the Secure Enclave.)	requestates states 2/13, for the control of the control control of the control	slide 12 was a sult of DHS questing more atewide training 13/2025 Perhaps in the next MSR we ould review the itstanding commendations to
which could be difficult to implement and Risk	10/28/2021 System Design	sophisticated components that make up a complex cloud infrastructure. Further, the Project Team has yet to finalize components that will make up the BES infrastructure and the additional costs and time to configure, test,	infrastructure is not accurately accounted for and salfed by the ASI, the project could be most with unexpected coist and schedule days, Delays in finalizing the components being implemented could exacerbate this risks and lead for further delays. Complete patherns often present system maintenance and operations collateleges as system changes can hold the increased potential for system failure. Que to the significant number of Equactronoiding participant of the project of the proje	-Asc candoct a Root Cause Analysis (RCA) with DHs and MY to determine why the BES project, behalf to all the Canada and the Product changes - Act develop a process to closely monitor closed and other product changes - Act develop a process to closely monitor closed and other product changes - Act develop a process to closely monitor closed and other product changes - Act develop and control of the Canada and maintenance of the windows system conduction and maintenance of the windows system and the Canada and maintenance of the windows system and maintenance of the windows system and the Canada and maintenance of the windows system and the Canada and the	· months	2 2 Low	Open	clear how these changes were planned in the revised schedule. 3/31/2015 - No material update. 2/38/2015 - No material update. 2/38/2015 - The project continues to build out of some infrastructure components for the Secure (incline. The RSF recently elected to winth from Mergodio to CO* Charle Freeting incline): in arrivally ISS 1075 Assured Wednado complete to the Orbit Core Charles and Ch	requestates states 2/13, for the control of the control control of the control	slide 12 was a suit of DHS questing more atewide training 13/2025 Perhaps in the next MSR we ould review the instanding commendations to sure progress state
which could be difficult to implement and Risk	10/28/2021 System Design	sophisticated components that make up a complex cloud infrastructure. Further, the Project Team has yet to finalize components that will make up the BES infrastructure and the additional costs and time to configure, test,	infrastructure is not accurately accounted for and staffed by the AS, the project could be not with unspected cost and schadule delays. Delay in finalizing the components being implemented could executate this risks and lead to further days. Complex platforms often present system and lead to further days. Complex platforms often present system increased potential relay system changes can hold the increased potential relayer failure is a, due to the significant animater of revolve infrastructure and significant level buys. Further, some components remain an immarture state compared to their legacy components remain an immarture state compared to their legacy.	Advantage 1 April 2004 1 April	· months	2 2 Low	Open	clear how these changes were planned in the revised schedule. 3/11/2005 - No material update. 2/12/2005 - No expect continues to build out of some infrastructure components for the Securie Endows. The ASI recently elected to switch from Mangoglib to GC Pour Securies. The ASI recently elected to switch from Mangoglib to GP Asim Securies and Asim Securies and Mangoglib to GP Asim Security and Mangoglib to GP As	requests	slide 12 was a sult of DHS questing more stewide training. 13/2025 Perhaps or the next MSR we ould review the instanding commendations to sure progress stat- reflected accurate!
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		Finding	Identified						Analyst	Finding			
ID Title	Reporter	Туре	Date Category	Observation	Significance	Recommendation	Event Horizon	Impact Proba	ability Priority	Status	Status Update C	Client Comments	Vendor Comments
70 Insufficient configuration management	Fors, Mich	nael Finding -	8/23/2021 Configuration ar	d The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the	e Configuration Management is a set of processes and procedures that	OPEN	ASAP	2	2 Low	Open	3/31/2025 - The ASI has reported progress in updating the project		
could lead to development confusion and		Risk	Development	Configuration Management Plan, however, it remains unclear if sufficient		•ASI adhere to plans for configuration management as documented in BI-6					Configuration Management Plan (CMP).		
reduce the effectiveness of defect resolut	tion			progress has been made toward establishing CM processes and governance		DDI Plan, Section 5.2 and clarify details and/or any changes with DHS.							
					ne Management that may reduce errors and should provide the project team	•ASI validate plans for configuration management with DHS and agree on a					2/28/2025 - The ASI has reported progress in constructing their		9/9/2024
				projects Security Plan has yet to be finalized which may include additional							configuration management database within ServiceNow, having recently		Still in progress. Plan
				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						imported multiple configuration items (CIs).		to update
				relies on Github for tracking of some configurations.	are included in the configuration plan along with the details regarding the								Configuration
					management of the configuration items, reporting and audit features.	BHS and ASI work to clarify/solidify plans for the potential use of					1/31/2025 - No material update. 12/31/2024 - No material update.		Management Plan list
						configuration management tools. •Blentify the DHS POC for the Configuration Management Activities that					12/31/2024 - No material update. 11/30/2024 - This finding will be reevaluated by the IVV team after the		of items. Two documents.
						would provide oversight of configuration management activities and assure					project team completes the re-planning and determines the approach.		management plan
						defined CM steps and plans are being followed, are effective, and are					requirements/functionality, and schedule for the Pilot and Statewide rollout.		(end of week),
						achieving DHS objectives for CM, 7/31/2022					regardinents/runcovanty, and schedule for the Fritz and statewide foliotic.		Configuration
											10/31/24 - This finding will be reevaluated by the IVV team after the project		Management
											team completes the replanning and determines the approach,		procedures (more
											requirements/functionality, and schedule for the Pilot and Statewide rollout.		detailed). Working
													with Mark M on what
											9/26/24 - The ASI had recently stated they plan to update their		should be included.
											Configuration Management Plan (CMP) list of configuration items (Cls) and		Trying to work with
											CMP procedures by 9/20/24 but has since experienced some delays in		folks who really
											completing these activities.		understand the details
													and are available.
											8/22/24 - IVV has yet to receive a detailed, comprehensive list of		
											configuration items the ASI will be tracking. 7/26/24 - No material update for this reporting period.		
											7/26/24 - No material update for this reporting period. 6/20/24 - No material update for this reporting period.		10/31/2023 - Vic - We provided a
											5/31/24 - No material update for this reporting period. 5/31/24 - IVV has yet to receive a detailed, comprehensive list of		listing, working on a
											configuration items the ASI will be tracking.		plan to implement.
											Communication from the Assessment on Callillia.		Dian to midtelliers.

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