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

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

November 19, 2024

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, Hawai'i 96813

Aloha Senate President Kouchi, 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: October 1 – 31, 2024

Submitted: November 15, 2024



Solutions that Matter

Overview

- Executive Summary
- IV&V Findings and Recommendations
- <u>IV&V Engagement Status</u>
- <u>Appendices</u>
 - <u>A IV&V Criticality Ratings</u>
 - <u>B Risk Identification Report</u>
 - <u>C Acronyms and Glossary</u>
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Solutions that Matter

Executive Summary



Executive Summary



In the month of October, DHS and the ASI continued to evaluate options for completing the BES project. DHS and the ASI are evaluating an approach, which includes one release that will contain all the functionality DHS needs to perform eligibility and enrollment, including enhancements to address requirements changes that occurred since the project started in 2018.

IV&V has focused attention on the planning efforts in the following areas.

- ASI testing—Vendor challenges with testing functionality completely and comprehensively have led to multiple project delays. DHS and the ASI need to fundamentally change their approach to testing and improve the criteria for exiting a testing phase. Continuing the same process would be expected to result in more delays. Testing converted data is a key part of IV&V's focus, as the ASI needs to validate that the BES functionality works with converted cases before DHS is expected to test.
- Requirements Traceability Matrix (RTM) Understanding the contractual requirements that have been met and those that are
 outstanding will be key to the replanning efforts. With multiple enhancements also in discussion, the RTM can help inform the
 discussion of what functionality can be delivered within Pilot and Go-Live and what can be deferred to reduce the remaining
 duration of the project.
- Root Cause Analysis (RCA) Despite multiple extensions and re-baselining of the project schedule, the BES project continues to
 encounter schedule delays. To break the cycle of project delays, DHS and the ASI should perform a joint critical analysis of the
 project to determine the root cause of the delays. A collaborative process between DHS and the ASI is recommended over an ASI
 internal analysis that DHS has no visibility into.
- BES Project schedule No updated schedule was released in October. The project timeline depends upon the BES scope that DHS and the ASI agree to and that FNS will approve. The enhancements that DHS determines "must-have" are needed to complete the revised schedule, which will also determine the eventual Pilot and Go-Live dates.

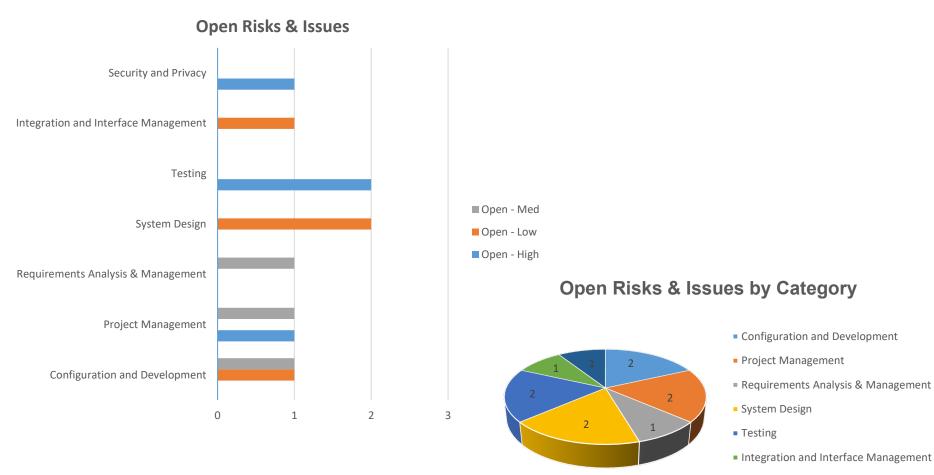
The current project delay was driven by the inability to complete UAT due to the high number of defects, phased in functionality not being ready for UAT, and DHS determining they have enhancements that are required for Pilot and Statewide Implementation. With this occurring so close to the planned BES 1.0 Pilot, the project team is at risk of burnout and low morale with the project's completion. DHS and the ASI executive support have been important in guiding the project through past challenges and are actively engaged in supporting the project team as the project replanning continues.

Executive Summary



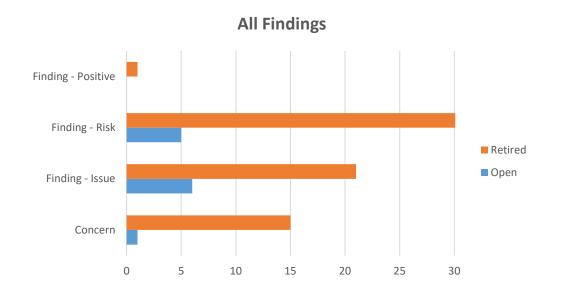
Aug	Sept	Oct	Category	IV&V Observations
н	н	Н	Project Management	The ASI and DHS PMO continued to evaluate the scope to be included in the restarted project, along with reviewing options for the revised schedule. The ASI also provided details on a switch in development methodology, from Agile to Waterfall.
L	L	L	System Design	No design sessions were held in the reporting period. The offline design work that occurred continued to revise the Functional Designs for BES 1.0 functionality.
M	M	М	Configuration and Development	The ASI senior developer hired last month to improve code quality left the company this month. In October, the ASI hired two new resources to continue the focus on code quality improvement. Two other development resources are validating that adequate unit testing is being performed.
L	L	L	Integration and Interface Management	The ASI and DHS are discussing options for testing partner interfaces. As Project Risk 59 has called out, the current plan for using mock data introduces risk to the interface testing.
н	Н	H	Testing	UAT testing resumed on October 14, after taking a two-week break to allow ASI to focus on defect resolution. DHS requested that UAT end on November 30, although as of October 30, there remained 373 unresolved defects (123 high severity, 177 medium severity) which could lead to a high number of defects being carried over to the future Pilot UAT.
н	Н	н	Security and Privacy	Due to the high number of Critical and High items in the Plan of Action and Milestones (200+) to be remediated, and the challenges with the Secure Enclave meeting IRS security requirements, IV&V is concerned about the results of the IRS requirements to assess system risks, as agreed upon between DHS, eWorld, and the IRS during the meeting with the IRS on October 15th, 2024.
M	M	M	Requirements Analysis & Management	DHS has requested that a complete Requirements Traceability Matrix (RTM) be provided for BES 1.0 so they can determine what contractual requirements are met by that release versus what still needs to be completed in the Project.

As of the October 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, 3 are Medium, and 4 are Low.



Security and Privacy

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. This finding will be reevaluated by the IV&V team after the project team completes the replanning and 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
74	Issue – A BES Project schedule based on inaccurate estimations diminishes effective planning and resource management, which could result in late deliverables, cost increases, and a late go-live. This finding will be reevaluated by the IV&V team after the project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	н

Recommendations	Progress
 Monitor, evaluate and revise scheduling estimates for accuracy based on the project teams past performance and resources available to do the remaining work. 	In Process





Project Management

#	Key Findings	Criticality Rating
88	Risk – Implementing a Core Solution for go-live carries inherent risks that may impact overall Project success and reduce user adoption.	
	This finding will be reevaluated by the IV&V team after the project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	M

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



System Design

#	Key Findings	Criticality Rating
86	Issue – Limited collaboration between the ASI and DHS in the design process could lead to BES usability issues and functionality gaps in the application and not meeting critical business needs for DHS and State clients.	L
	This finding will be reevaluated by the IV&V team after the project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	

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



System Design

#	Key Findings	Criticality Rating	
73	Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts.		
73	This finding will be reevaluated by the IV&V team after the project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout		

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



Configuration and Development

#	Key Findings	Criticality Rating
70	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution.	
	This finding will be reevaluated by the IV&V team after the project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	

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
80	Issue – Development delays have negatively impacted the project schedule and delayed go-live. With the recent departure of the ASI's recently hired development quality lead, the ASI hired two technical resources to mitigate code quality challenges that have created project delays.	M

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



Integration and Interface Management

#	Key Findings	Criticality Rating
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.	
	This finding will be reevaluated by the IV&V team after the project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	

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

Testing

#	Key Findings	Criticality Rating
	Issue – Gaps in test coverage and slower-than-expected progress in testing may result in schedule delays if subsequent test phases uncover a higher volume of defects and user feedback than initially anticipated.	
83	As of October 30, 2024, DHS testers identified a total of 1618 defects with 373 defects still unresolved, comprising 123 High Severity, 177 Medium Severity, and 73 low severity defects. The ASI resolved and moved to UAT 175 defects during the two-week UAT testing pause. Despite this progress, significant gaps remain. 20% (137/682) of real-time environment test cases and 49% (205/417) of time travel environment test cases are unresolved. This poses significant risks, potentially compromising system reliability, performance, and quality. Unresolved defects and incomplete testing may lead to undiscovered issues, impacting overall system integrity.	Н

Recommendations	Progress
Monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested.	Completed
 ASI utilize the two-week UAT testing pause to address and resolve outstanding SIT defects and apply the fixes in the UAT environment, ensuring that these defects do not recur when UAT resumes, optimizing testing efficiency and reducing potential defect rediscovery. 	Completed
 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). 	New
 ASI assesses the potential impact of the large number of unresolved defects on future development efforts, ensuring a more robust and efficient development process. 	New

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 team has announced further delays in the dates for Pilot and Go-Live and agreed to combine BES 1.0 and BES 1.1 into one release. Based on the 10/30/2024 project status meeting, the development for Epic 203 (Report Viewing and On-demand Submission) has been delayed, and the due date has been changed from 10/4/2024 to 1/14/2025. The due date for Epic 243 (Reports – Priority 2, Set #1) and Epic 244 (Reports – Priority 2, Set #2) has been updated from 10/4/2024 to 11/1/2024. IV&V expresses concerns that the upcoming new schedule may retain or increase concurrent activities, making it challenging to manage and coordinate multiple tasks simultaneously. This may compromise the project's ability to complete testing and other essential activities, ultimately impacting the Pilot and statewide Go-Live dates.	H

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



Security and Privacy

#	Key Findings	Criticality Rating
	Issue – The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan (SSP).	
82	In October, the ASI continued to work on rewriting the implementation statements for the BES System Security Plan (SSP). The ASI completed rewrites of implementation statements of five of twenty control families in the main body of the SSP. The ASI has completed the basic infrastructure for the Secure Enclave, however, there is confusion about what has been completed in the Secure Enclave and when it will be done. Applications that need to work within the Secure Enclave must be configured to work within the explicit security requirements placed on the Secure Enclave. These configurations may require vendor support or may not work within an environment with IRS Publication 1075 security requirements.	Н
	IV&V remains concerned about the IRS Assessment due to the large number of critical and high Plans of Action and Milestones (POAMs) that remain to be remediated by both DHS and the ASI. Currently, eight (8) POAMs have been remediated, while over two hundred (200) critical and high POAMs remain open.	

Recommendations	Progress
Determine when documentation will be created, updated, and available for the SSP authors.	In process
 Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. 	In process
 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. 	Completed
 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. 	Not Started



Requirements Analysis & Management

#	Key Findings	Criticality Rating
94	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. This finding will be reevaluated by the IV&V team after the project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.	M

Recommendations	F	Progress
• Develop a document that provides DHS with a feasible and effective passed test cases, and, per the BI-19 (Complete and Final Test Plan and technical requirements to the test cases and test scripts".	· ·	In Process
 Ensure test scripts thoroughly and comprehensively test the system test. 	o assure each requirement has been fully	In Process

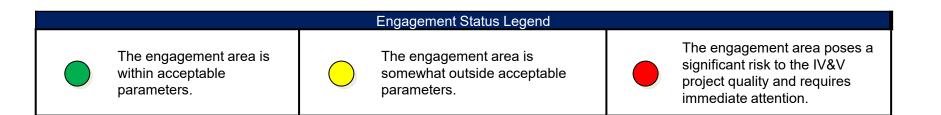




IV&V Status

IV&V Engagement Status

IV&V Engagement Area	Aug	Sep	Oct	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final September IV&V Monthly Status Report.
IV&V Staffing				Rylan Kanae left the IV&V team on October 9, 2024
IV&V Scope				



IV&V Activities



- IV&V activities in the October reporting period:
 - Completed September 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 November 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
None in the reporting period		

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 – 10/3/2024, 10/7/2024, 10/10/2024, 10/15/2024, 10/15/2024, 10/21/2024, 10/24/2024, 10/28/2024, 10/31/2024

2.IV&V/ASI September Pre-draft Review – 10/7/2024 3.HI DHS BES August Draft IV&V Report Review – 10/11/2024 4.Bi-Weekly DHS BES PMO/IV&V Check-in - 10/10/2024, 10/24/2024 5.Weekly BES Infrastructure meeting - 10/4/2024, 10/11/2024, 10/18/2024 6.Weekly Client BES 2023 Project Status Meeting – 10/9/2024, 10/16/2024, 10/25/2024, 10/30/2024 7.Security Touchpoint - 10/2/2024, 10/9/2024, 10/16/2024, 10/23/2024, 10/30/2024 8.(Externa(I) Weekly Interfaces Touchpoint - 10/7/2024, 10/18/2024, 10/28/2024 9.(External) Readiness - Working Group Meeting - 10/8/2024, 10/22/2024 10.(External) Bi-weekly BES CCB Meeting - 10/2/2024, 10/16/2024, 10/30/2024 11.(External) CIA Current Weekly Checkpoint-10/8/2024 12.eWorld/IV&V Mid-Month Check-in – 10/17/2024 13.(External) BES M&O Project Status Meeting – 10/7/2024, 10/21/2024, 10/28/2024 14.(External) BES Snow Touchpoint - 10/2/2024, 10/16/2024, 10/23/2024 15.(External) BES UAT Daily Touchpoint – 10/15/2024 – 10/31/2024 (daily call) 16.(External) BES UAT Daily Defect Status Meeting – 10/15/2024 – 10/31/2024 (daily call) 17.(External) BES Waterfall Methodology Decision Discussion – 10/18/2024

18.(External) BES Enhancement Change Requests Initial Business Review Meeting - 10/23/2024







Appendix A – IV&V Criticality Ratings

Criticality Rating	Definition
Н	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
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
СММІ	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

HI DHS Monthly IV Status Report Final - October 2024

Finding	Identified						Analyst	Finding			
ID Title Reporter Type	Date Category	Observation	Significance	Recommendation	Event Horizon	Impact Probabil	lity Priority	Status	Status Update	Client Comments	Vendor Comments
98 Delays in providing the required deliverables Molina, Brad Concern to FNS could extend the review time needed and delay FNS's concurrence to start the pilot.	7/24/2024 Project Management	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 review to take the full 60 days. The longer DHS delays getting deliverables to	the project team deliver the required deliverables to FNS as soon as possible		now	3	3 NA	Open	10/31/2024 - This finding will be reevaluated by the IVV team after the project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rolloux 0/30/20204 - The status of this preliminary concern will be reevaluated by		
		FNS, the closer it gets to the planned start for Pilot.							the IVV team after the project team determines the approach, requirements/functionality and schedule for the Pilot and Statewide rollout.		
94 The lack of an effective way to validate BES Molina, Brad Finding - requirements could lead to project delays Risk	4/25/2024 Requirements Analysis &	The Requirements Traceability Matrix (RTM) (BI-21) plays a vital role in ensuring the system's compliance with contractual commitments by	It is unclear to DHS and IVV how the ASI will trace requirement coverage for SIT completion. DHS may be unable to make an informed decision on SIT exit	IN PROGRESS • Develop a document that provides DHS with a feasible and	5/10/2024	3	3 Med	Open	10/31/2024 - As DHS works with the ASI to confirm final scope for restarted project, currently known as Option 2, it is critical that DHS and ASI		9/9/2024
and unfulfilled user needs if DHS later	Management	associating each requirement with passed test case(s). However, the	criteria. This could lead to DHS starting Final Acceptance Testing (FAT) and	the BI-19 (Complete and Final Test Plan), "Maps the implementation,					understand what contractual requirements have been completed and which		Include information of
identifies unmet contractual requirements.		approved project schedule shows the RTM completed on 6/26/24, which falls after the Core SIT exit decision on 5/10/24. The ASI provided the BI-22a	then realizing that not all requirements have been fully met, resulting in delays	functional and technical requirements to the test cases and test scripts". Ensure test scripts thoroughly and comprehensively test the system to					still need to be developed. DHS has 09/30/2024 -The ASI did demonstrate some progress in providing a set of RTM reports that match the approved		interim version provided prior to FAT
		System Integrity Review Tool (SIRT) to DHS on April 26, 2024, but withdrew	unin ya.	assure each requirement has been fully met.					Deliverable Expectations Document (DED). However, DHS still did not		provided prior to the
		the deliverable due to DHS concerns. This BI-22a deliverable may help DHS validate requirements.							receive a comprehensive report to confirm all expected contractual requirements for approved Epics have been developed and tested		7/12/2024
									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		I'm not sure if this is
									requirements are met. 08/31/2024 - As of the end of the reporting period,		worth noting but
									the ASI had not provided the comprehensive Requirements Traceability Matrix for BES 1.0 based on the Deliverable Expectation Document (DED).		eWorldES did deliver an "interim" BI-21
									only an interim version, prior to the start of FAT testing. DHS needs this finalized RTM to validate all contractual requirements have been included in		RTM to satisfy the requirement criteria
									BES 1.0 as scheduled and successfully tested prior to go live for Pilot.		for entering into BES
									7/31/2024 - Discussions were held throughout July regarding the format and structure of the Requirements Traceability Matrix (RTM). However, the		1.0 FAT.
									ASI has not distributed a reformatted BI-21 Requirements Traceability Matrix deliverable for DHS review and approval. IVV remains concerned that		06/14/2024
									the delay in finalizing the RTM may lead to requirements tracing issues.		
									missing required Pilot functionality in BES, testing gaps, and project delays. 6/30/2024 - IVV is reporting positive movement on this risk this month. The		The BI-21 RTM deliverable has been
									ASI delivered a draft BI-21 RTM to DHS and used DHS feedback to revise the		reviewed and
									RTM's structure to simplify the tracing of requirements, use cases, epics, and tests in a single report. The ASI continues to make additional revisions		discussed multiple times at the bi-weekly
									to further streamline the RTM format and align more closely with the Deliverable Expectations Document. An approved RTM was not delivered by		CCB meeting. Draft reports of the BI-21
93 Due to the lack of physical and technical Reynolds, Finding -	4/29/2024 Integration and		This testing is essential before initial deployment to prevent unexpected and	In Process 1. API interfaces should be tested for failure conditions during	2024 2nd Qtr	3	2 Low	Open	10/31/2024 - This finding will be reevaluated by the IVV team after the		
testing of the interfaces and data transfer Mark Evan Risk failure, conditions may exist with data	Interface Management		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						project team completes the replanning and determines the approach, requirements/functionality, and schedule for the Pilot and Statewide rollout.		06/14/2024
format, boundaries, and dependencies. These failures may result in intermittent and		,	tested the fault scenarios, we do not know how the system may react.	resulting from data that is poorly formatted, out of range, or other unexpected data transmission errors. Removed 2. [n/a, no transactional					09/30/2024 - The 7 interfaces used in the planned Pilot release, BES1.0, have been completed. However, the other 12 releases required for the		As mentioned at the May pre-meet, a
hard-to-isolate problems or errors				interfaces therefore no race conditions] API interfaces should be tested for					statewide release, BES1.1, will be required with the revised approach to		technical Interface
				race conditions. 5. [redundant with #4] Interface records and files should be tested for format, length, or other physical formatting errors.	2				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		team plan does exist to address PCG's
									Fargo Lockbox interface have been completed. These seven tests require initiating a new service ticket with Wells Fargo. Tests are expected to be		recommendations for this finding.5/11/2024
									completed before the beginning of the Pilot phase. 05/28/2024 - The ASI		this finding.5/11/2024
									has prepared the test scripts for the 12 interfaces included in the Pilot release. This first round of test scripts reside in the Jira tool and are being		As mentioned at the
									executed to be complete by mid-July. The Office of Information Technology		pre-meet, a technical
									(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		Interface team plan does exist to address
									interface testing details, including the Transport Layer, are planned to be discussed in June.		PCG's recommendations for
									unit datatut in admit.		this finding.
89 The current approach to completing the Kalsi, Neetu Finding - development of the remaining epics is Issue	12/21/2023 Testing	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	Overlapping development and testing introduces potential quality issues. Insufficient INT may create gaps in SIT, leading to further quality issues. This	OPEN - The ASI validates that development and testing resources have sufficient bandwidth to complete overlapping assigned responsibilities -	Now	4	5 High	Open	10/31/2024 – The project team has announced further delays in the dates for Pilot and Go-Live and agreed to combine BES 1.0 and BES 1.1 into one		11/13/2024
condensed and aggressive, which may increase the likelihood of schedule delays,		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	may increase the risk of significant delays or introduce defects into the	Develop Contingency Plans if the mitigation plan continues to see slippage affecting INT and SIT. CLOSED - The plan to complete BES implementation					release. Based on the 10/30/2024 project status meeting, the development for Epic 203 (Report Viewing and On-demand Submission) has been		Recommendation
quality issues, and a higher volume of testing defects.		been extended for another ten business days.		does not include overlapping testing phases (5/24/2024) - The ASI should evaluate if Epics entering SIT late might require retesting functionality that					delayed, and the due date has been changed from 10/4/2024 to 1/14/2025. The due date for Epic 243 (Reports – Priority 2, Set #1) and Epic 244		#2: The SIT tests have
testing derects.				had already been tested. (closed 06/01/2024) - The ASI release a detailed					(Reports - Priority 2, Set #2) has been updated from 10/4/2024 to		already been reviewed and approved by DHS
				schedule of events, including development completion, INT start, and SIT start for each epic covered in the mitigation plan. (closed 06/01/2024) - Th	•				11/1/2024. IVV expresses concerns that the upcoming new schedule may retain or increase concurrent activities, making it challenging to manage and		for the incomplete Epics. Any new tests
				ASI provides INT results and SIT scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution. (Removed comprehensive based o					coordinate multiple tasks simultaneously. This may compromise the		for CRs will also be
				what ASI delivered to DHS, 10/31/2024) CANCELED - Develop a Risk	n				project's ability to complete testing and other essential activities, ultimately impacting the Pilot and statewide Go-Live dates. 9/30/2024- The project		reviewed and approved by DHS. This
				Mitigation Plan to address challenges of managing multiple test environments, multiple code bases and versioning within and across					has recently announced additional go-live delays but have yet to provide a revised go-live date. The SI has stated reasons for the delay include		is and always has been our process.
				Releases.					significant volume of defects, code quality issues, development delays, and		Recommendation
									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		#3:Test resources are not an issue. They
									was unable to provide expected completion dates. IVV remains concerned that the accelerated schedule may adversely impact overall project		have bandwidth for all responsibilities. This
									outcomes, leading to increased risks of quality issues, further schedule		has not been an issue.
									delays, and insufficient testing. 8/30/2024 – In August, the ASI announced additional delays in delivering several reporting functions planned for		06/14/2024
									phased implementation into FAT. The Epic due dates were pushed further, with Epic 243 due date moved from August 12,2024 to October 4,2024 and		Why is this still red? This should be in
									for Epic 244, the due date was updated from August 23,2024 to October		yellow for monitoring
									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		after discussions in April (March report).
88 Implementing a Core Solution for go-live Molina, Brad Finding -	11/30/2023 Project	The project has elected to implement a Core Solution at go-live to meet their	Going live with a limited version of a software product entails inherent risks	OPEN • Increase OCM efforts to effectively manage user peneral nublic an	d Now	3	3 Med	Open	243 was revised downward from 93% to 85%. IVV remains concerned that 10/31/2024 - This finding will be reevaluated by the IVV team after the		In addition, the items
carries inherent risks that may impact Risk	Management	stated timeline. This version is generally referred to in Agile software	such as notential challenges in securing user huv-in. This can result in	legislative expectations for the BES version at go-live. • Prioritize feedback					project team completes the replanning and determines the approach.		
overall project success and reduce user adoption.		version of a product that 1) offers functionality that meets the core needs of	limited user adoption, user dissatisfaction, and negative publicity, particularly considering the financial investment made for the delivery of	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					requirements/functionality, and schedule for the Pilot and Statewide rollout 9/30/2024 - Without an RTM, there is ambiguity on the ASI presented		04/10/2024 -
		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	monitor, assess, and address potential challenges throughout the					enhancements and critical functionality list developed by DHS as compared to the contract requirements. IVV recognizes the project is almost 6 years		"Some required BES functionality will be
			and suboptimal code. Further, this approach may expose the project to	development milestones, insufficient user validation of demonstrated					old, meaning policy and business operations has changed which may drive		implemented post-
		1	regulatory compliance risks, such as last-minute objections from regulatory bodies like FNS, which could find certain system elements non-compliant	missing functionality. Actively monitor FAT and Pilot feedback and track					the need for enhancements. However, these lists should be validated and negotiated by DHS and ASI to ensure DHS does not pay for functionality		Pilot." What does this mean? I think I know
			with their standards and delay the go-live date. Misalignment between stakeholder expectations and the Core Solution may lead to dissatisfaction	users' biggest pain points. Pain points can then be prioritized based on negative impact and project leadership can decide if fixing or changing poo					twice. 8/30/2024 - DHS continues to emphasize the need for workouts to be documented and incorporated into training, with a plan to update		the intent and perhaps update as such?
			or a lack of support for the project and could negatively impact future	designs can be implemented prior to go-live. COMPLETE CLOSED • DHS					documentation as defects are resolved to enable pilot workers to be most		
			project funding requests. Implementing a limited Core Solution typically requires the customer to implement multiple workarounds until automated	advantages of going live with a system that provides more comprehensive					effective. 7/31/2024 - DHS and the ASI continue to document and develop workarounds in preparation for Pilot. There are now two workaround areas;		"Per the Go to Green plan, the ASI plans to
			features can be built into the system. Users could become impatient if these	functionality, requires fewer workarounds, and increases user satisfaction and buy-in. (06/30/2024)					1) known gaps in functionality and 2) defects discovered during testing that will not be addressed prior to Pilot. Additionally, planning is ongoing for		implement required functionality in
			precedence. Others may lose confidence that the features or system						incorporating these workarounds into the training process 6/20/24 - Per		multiple releases
			improvements will ever be implemented. Going live with a solution that is missing functionality that stakeholders were expecting typically requires an						DHS's request, the ASI is currently developing a list of workarounds to address known gaps in BES 1.0 functionality. 5/23/24 - No material update.		(Pilot/Statewide/Post Statewide).*12/15/20
			increase in OCM efforts both by the ASI and DHS staff to temper stakeholders' reactions to a system with limited functionality.						4/30/2024 - No material update. 03/30/24 - The ASI's Go to Green plan and		23 - Above already addressed by DHS/Joe
			avances are reactions to a system with limited functionality.						project schedule were approved by DHS. Per the Go to Green plan, some required BES functionality will be implemented post-Pilot. This may create		addressed by DHS/Joe Campos.Ensure
									unplanned workarounds and rework as the full impact of this approach becomes known through testing and training. 02/29/24 - The ASI drafted a		recommendations reflect "In Progress" or
									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		"In Process".
									solution not tested in a real-world Pilot environment may lead to		
									unexpected issues and bugs. IVV remains concerned that user expectations		

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Finding ID Title Reporter Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizon I	Impact Proba	Analyst ability Priority	Finding Status	Status Update	Client Comments	Vendor Comments
BE Limited collaboration between the AD and Molika, Rind Finding - DH's tim the degrap process could lead to BE S. Issue usability issues and functionality gaps in the hypothylication of the second second second second second needs for 265 and State Stores.	8/1/2023 System Design	During the ULT process for release 11, there has been a high level of concerns raised by the ULT stores registration the buschilly of the LES system Challenges with the curri interface, musing functionality, and basic science defect reporting from the ULT process. Just gran provide the defects are related of Stelage network, adjustment to degrad defects was antihubudate to functionality developed for helease 11.		sprint completion (demo functionality/requirements as they are developed to get early feedback on work products Improve rigor in the Design		2	2 100	Open	project trans completes the regioning and determines the approach, majoriment/Jiv/Carlossi, and schedule for the file and Stazewide rolota 07/12/2024. No material goates in this reporting proted (JV/2024), the schedule of the schedule of the schedule of the schedule and and file rank or Parket (SGP) design. With contrasts to monitor design activities to unlidite continued collaboration between the AM and CH4. 17/12/2024. IV design design. With contrasts to monitor design activities to unlidite continued collaboration between the AM and CH4. 17/12/2024. IV design design. With contrasts the monitor design activities to unlidite continued collaboration between the AM and CH4. 17/12/2024. IV design design. With contrast the AM and CH4. 17/12/2024. IV design design design design and the AM and CH4. 18/12/2024. IV design design design and the AM and CH4. 18/12/2024. IV design design design and the AM and CH4. 18/12/2024. IV design design design and the AM and CH4. 18/12/2024. IV design and the AM and	10/11/2023. Lessica - Our SMBs are providing their freeBack. This is one of the less that is clarified with With that there are released given, one feeBack means design is dk. Tref g an email back from las F. that W&V wants to meet with our reviewer to validize this.	11/13/2024 For next status reporting, = White In water fail methodology once the related decision log item is approved by DHS and will not be doing only of Porward. 06/14/2024 Why is this in Not Started? We had a live spot demos for Fuel spot demos for Spot spot demos for Spot Spot Spot demos for Spot Spot Spot demos for Spot Spot Spot demos for Spot Spot Spot Spot Spot Spot Spot Spot
12 Gala has based average and down dam. Moli jeketo finding - osecistad graphs in basing may may be in the second schedule days if subsequent that phases uncover a hyper unless of detects and see feedback than initially anticipated.	6/2/2023 testing	progress of festing might be baging. Concerning tening coverage, its appen- tation of all spice and socials in 81.1 bio associated text scales or are toxing the correct use case, its lenses of progress, some text case are some concerning of the spice of the spice of the spice of the spice commones spice and the spice of the spice of the spice of the spice the INT exit criteria by June 16, 2023, about 2 weeks after SIT begins.	Final Acceptance Testing (FAT).	remaining test activities and conduct comprehensive System Integration testing (191 to minimise deficit langes to the decignant Testing (192), 201 accesses the potential impact of the lange number of unexplorated testing (191 to minimise) (191 accesses the lange number of unexplorated decignant process. Charlos 101 acc 311 acc 311 acc 311 accesses the testing accesses the lange of the lange number of the lange of the lange access of the lange of the lange of the lange of the testing access of the lange of the lange of the lange access of the lange access of the lange of the lange of the lange of the lange and readow catcarding 311 deficits and apply the frast in the lange access and readow catcarding 311 deficits and apply the frast in the lange access tables of the lange of the lange access tables and and readow catcarding 311 deficits and capacity the frast in the lange access tables of the lange of the lange access tables and and readow catcarding 311 deficits and capacity the frast in the lange access tables of the lange of the lange access tables and access tables the lange of the lange access tables access (Lange Lange access) access the lange of the lange access tables base cycling possible (17)(17)(201 - 100 shaded respect that read decides in the capacity deficit to the lange access tables (Lange Cases).	- - - - - - - - - - - - - - - - - - -	4		Open	nated concerns in Readings negating, regarding, again in design where 10/12/02/4 - w6 (2006 m2), 2024, 2014 (2016 m2), 10/14 (2016 m2), 10/1		has approved all the 1/13/2024 DHS reviews and approves all ST tests to ensure full coverage to ensure full coverage to ensure full coverage to the state state designs including the designs includi
12 The lack of technical documentation may Heath, Doutin Finding - lead to increase implementation takeness in lack or aday the System Security Plan	4/27/003 Security and Photocy	In April, the AAQUSS system security plan (SDP) authors began writing implementation statements. Currently, the includie documentation apporting the SDP is unrealisable, outstand, or in a dark from. Curring con- traction of the statements are currently plane writies from the the properties of how the system should be designed from the SDP author's perspective of how the system should be designed from the SDP author's perspective states of how the system include be designed from the SDP author's perspective of how and us documentation such a System Architecture and heights, designed, state how and us documentation such a System Architecture and heights, designed, state how and us documentation such a System Architecture and heights, designed, state how and the specified of the system and the state of heights.	Once the system architecture and design have been completed, the SP andhors may read to der revent implemation statements. All of and of the SP is a scheduled to be published August 15th, 2023, and the finally SP is a large schedule do complete the schedule of a schedule and enhancements, and each one requires an implementation statement of how the control or enhancement has been met.	with the known tasks related to the IRS Assessment to continue receiving FI In BES. OPEN - Determine when 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.	T the third-party assessment.	4	5 High	Open	DIG12024-1: In October, the AS continued to werk on rewriting the implementation statements for the BIS System Security Print (BY). The AS completed rewrites of implementation statements of the or heaving zontal of the statement of the BIS System Security Print (BY). The AS completed rewrites of implementation statements of the or heaving zontal distance. The Distance for the BIS System Character and the complexities of the statement of the BIS System Character and what has been completed in the Scatcure Tecchae and when it will be done. Applications that mere explicit security requirements based on the complexities of the statement with BIS Absolutions 1003 security requirements. MeV remains concerned about the BIS Absolutions (applications that mere explicit) and the BIS and Absolutions (applications that mere explicit) and (applications 1003 security requirements. MeV remains concerned about the BIS Absolutions (applications that mere explicit) and (applications 1003 security requirements. MeV remains concerned about the BIS Absolutions (applications that mere explicit) and (applications 1003 security requires (applications and BIS Yellang and applications complexity (applications that mere explicit) and (applications 1003 security requires (applications and BIS Yellang and applications complexity (applications that mere explicit) and (applications and applications that man should) of the SIP. The AIS has also tabilized the framework that the ment should on the SIP. The AIS has also tabilized the framework that the submet should be SIP. The AIS has also tabilized the statement to the submet has also statement (applications complexitiend complexitiend the applications and BIS Yellang and applications complexitiend appender to allow EBIS access to SIA statements (SIP/2004). Through Abaptit explicit to allow EBI access to SIA statements (SIP/2004). Through Abaptit explicit to allow EBI access to SIA statements and addivided application tallower (SIA statement state explicit) for ad		09/9/2024 SSA cospeel bits place meeting, as this should be reflected by the should be reflected by the should be reflected with resources will be used and final provide the should be documentation. Might documentation. Might meeting as the should be documentation with the should be a should be provided by Dould Rolla at May pre-meeting should be added by Dould Rolla to that here is no solid by Dould Rolla to that here is no solid by Dould Rolla to that here is no solid by Dould
80 Development delays have registrative imspaced de orgent schedule and delayed law go fire.	6/38/2822 Configuration an Overlapment	di AS tad principality apported divergence at addities have been subwerd at they have been variaties that subverse and/or nutration their expected development values(<i>x</i>). Previously, the development same variables provide that accurately available to addite additional to a sub- st accurately available to additional to additional to additional subverse additional to a subverse additional to additional to additional subverse additional to additional to additional to additional subverse additional to additional to additional to additional additional to additional to additional to additional to additional additional to additional to additional to additional to additional manneer.	Failure to achieve a level of accuracy in estimating development tasks could lead to a project schedule that is flawed and unrealistic. Previously, DHS	weeky DD status meeting) with an accurate websity (e.g., tony posts per downeek/mosth and assure that the current velocity is accurately and consistently reflected in the project schedule + AS regularly report and present a dynamic bundbown charts to track the progress - The AS and present a dynamic bundbown charts to track the progress - The AS includes council emitting the dispit of dwordper unit status; a COMULT induces to differently increase velocity. Note that additional appet dispit of measures my on the selfaction activation to the third additional appet relief.	r	3	3 Med	Open	and TB term indume. Dist and the SQL also reaccorded to minuteshift for evelopment applies (a) the Am BM and SQL also reaccorded to minuteshift for evelopment applies (b) the Am BM and SQL and y and productionly of an arcmain y lakes may be interased the code apply and productionly of an arcmain y lakes may be interased the code apply and productionly of development applies (b) the Am BM and SQL and y and productionly of development applies) that and a new development manager. They Rogs to those the development than to be more diverse development manager. They Rogs to minute have a strain the strain and the code and the set of the SQL and the practice and unit terming to a to include a more diverse development. The Ad Nus include development and plan to add 30 more diverse development as a point in order to appedite development. The Ad Nus acknowling of that mediated development managered the projects and have development and production of the add the add 30 more diverse development and any ended development managered the projects and have advelopment as the production of the advelopment. The Ad Nus acknowling of that mediated development matching, degrade that based to advelopment of the production of the transmitter of the advelopment of the set of the top development and the diverse more advelopment of the set of the top development of the production development of the production of the transmitter diverse the production development of the production of the transmitter diverse the production development of the production of the transmitter advelopment and the data and the data of the data and the top advelopment advelopment and the data and the data and the data and the data production development, and the data and the data and the data and development. Add the data and the data and the data and the data development. Additional development, which have data and the production areas and development. Additionally, which has a data and the production areas have advelopment. Additionally, Neuris has the data and		context provided 09/09/2024 Vic confirmed that 50 dewlopers have been added to project. 05/11/2024 As discussed at pre- meet, the been primarily focus on fung BS 10 defect. DOI work for BS 11 and 12 million forthcoming.

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Finding Title Reporter Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizon	Analy: Impact Probability Priorit	Finding Status	Status Update	Client Comments	Vendor Comme
A BES Project schedule based on inaccurate Molina, Brad Finding -	11/29/2021 Project	DHS and the ASI have tried multiple times to rework the schedule with	If estimates for project schedule activities are not accurate, this can lead to	OPEN - Monitor, evaluate and revise scheduling estimates for accuracy	Immediate	3 4 High	Open	10/31/2024 - This finding will be reevaluated by the IVV team after the		
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,	based on the project teams past performance and resources available to do				project team completes the replanning and determines the approach,		
and resource management, which could			rushed activities, and general frustration which can lead to schedule delays,					requirements/functionality, and schedule for the Pilot and Statewide rollout		
read in bits deliverable, cost horease, and a bits go live.		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 experience	:e			09/30/2024 - The project did not meet the Pilot Go Live date as the		11/13/2024
		Previous IV&V findings focused on specific schedule components such as		schedule delays ASI Project Management works with the development				schedule was not realistic for the planned work to be performed, and new		I'm not sure the
		resource management and critical path analysis, all of which were addressed and closed.		teams to evaluate the accuracy of development velocity and adjust accordingly to reduce risk in the revised BES project schedule. •ASI provide:				functionality was requested by DHS via change requests (12 overall). No		will know the "C 2" reference and
		addressed and closed.		accordingry to reduce risk in the revised BES project schedule. •ASI provide: Burndown charts that provide visibility into the remaining work. • ASI	5			updated schedules were published in September, as the ASI worked through revising the schedule to align with the new project direction (combining		
										don't see any subsequent refe
				provide details on how Velocity measures were used to calculate the remaining development workASI conduct a Root Cause Analysis (RCA) with	*			releases) and including the scope for change requests and a crucial functionality list from DHS. Per prior recommendations, the ASI and DHS		subsequent ref in the finding's
				DHS and IW to determine why the BES project continues to experience	ui			should conduct a root cause analysis and incorporate the results in the new		Consider remov
				schedule delays. DHS and the ASI agree to a revised schedule against which	h			schedule. 08/30/2024 - Underestimated development work that will		latter half of th
				project deliverables can be managed. (2/28/2023 - complete) ASI host a				coincide with FAT testing and related defect resolution, has created risk for		sentence "to :
				weekly meeting with DHS and IVV to review all changes to the project				completing Epics in time for comprehensive INT, SIT and FAT testing prior to		Ontion 2 "
				schedules (Primary and DDI). (8/31/2023-complete) CLOSED ASI plan and				Pilot. IVV is concerned that Epics might need to enter Pilot without full		09/9/2024
				execute Epic development so that Epic demos can occur earlier in the				testing, causing issues for workers completing their required work. DHS has		03/3/2024
				release schedule and allow time for possible revisions. (12/31/2023 No				also submitted additional Change Requests that may require the schedule to		Numbr of defe
				done) As requested by DHS, add key milestones to the project schedule, suc	ch			be delayed. As of the end of the reporting period, the ASI and DHS are		phased in epics
				as Sprint and Epic demos, to show key progress towards completion of				talking through a revision of the schedule that will at a minimum push FAT		outstanding CR
				Epics. (9/29/23 ASI says that they will not do this.) Confirm current				testing out to end of September. 07/31/2024 - The ASI is actively working		pushing sched
				assumption that a delay with the current go-live date will not result in majo	or			on defect resolution and new development work for BES 1.1. A few key		beyond Sept. I
				implications. (6/29/23) Leverage velocity and burn down charts to adjust				documents/deliverables, including the Disaster Recovery Plan, Data		epics should b
				development tasks estimates if needed. Leverage velocity and burn down				Conversion results, and Requirements Traceability, are behind schedule. The		week. Optimis
				charts to adjust development tasks estimates if needed. (4/30/2023 - ASI				ASI is hiring additional resources; however, it is not known if these resources		getting defects
				using Jira) Using the available tools, review the current estimates to				will have a positive impact on the work remaining as defined in the		epics addresses
				complete each activity compared to past actual hours (1/31/2023 - new AS				schedule. 06/31/2024 - The Project's ability to perform according to the		end of Septem
				Not Started) Update as necessary and provide the DHS/ASI Project Manager	irs			approved BES Project Schedule continues to be a high risk. The ASI		should include
			4	with reports and data that accurately reflect the DHS/ASI resource needs			-	completed their schedule reviews with DHS and IVV, baselining the schedule		three of the iss
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		ASI develop a process to closely monitor cloud and other product changes		2 2 Low	Open	10/31/24 - This finding will be reevaluated by the IVV team after the project		11/17/2023 -
which could be difficult to implement and Risk		sophisticated components that make up a complex cloud infrastructure.	infrastructure is not accurately accounted for and staffed by the ASI, the	(software updates/new releases), manage changes, and regression test onc	ce months			team completes the replanning and determines the approach,		
			project could be met with unexpected costs and schedule delays. Delays in	changes/updates are applied. • The project team work to establish strong sovernance over the utilization and maintenance of the various system				requirements/functionality, and schedule for the Pilot and Statewide rollout		Again, why is D referenced ber
				governance over the utilization and maintenance of the various system tools/components. • ASI allot time in the schedule to conduct proof of				9/26/24 - The project continues to make progress on its technical debt		
		and implement the planned complex environment remain unclear.	and lead to further delays. Complex platforms often present system maintenance and operations challenges as system changes can hold the	concepts to assure infrastructure components work as expected. • ASI				(infrastructure activities that were put on hold in order to work on priority items), including improvements to MongoDB, DataDog, and Boomi. The		the current pro schedule, the D
			increased potential for system failure (i.e., due to the significant number of					project has initiated the process with Netenrich to convert to the new		is scheduled to
			"moving parts") and increase the level of time and effort to resolve	unexpected delays that could delay project milestones and the critical path.				Google SecOos platform and may add more components/services, including		submitted at the
			infrastructure and application-level bugs. Further, some components	unexpected delays that could delay project milestones and the critical path.	-			the Consul API Gateway and Private Service Connect. The ASI intends to		of the year. Ren
			remain in an immature state compared to their legacy counterparts. For					update the BI-12 before go-live to reflect these changes/additions. 8/22/24		Pilot Go-Live is
			example, the project recently experienced a system failure because Google					The ASI continues to make progress in building out the finalized list of		2024
			Cloud failed to clearly communicate a change that led to failure in another					infrastructure components into the BES platform. The ASI appears to have a		1014.
			component (i.e., Nexus). Google Cloud is generally viewed as a less mature					structured approach for building out and testing these components and they		10/31/2023 -
			product offering, compared to their rivals (Amazon Web Services, Microsoft					have reported success with some disaster recovery (DR) tests. 7/26/24 - No		Vic - westill do
			Azure). IV&V remains concerned that this could lead to failures at critical					material update for this reporting period. 6/20/24 - No material update for		notunderstand v
			points in the project (including post-go live production failures) that could					this reporting period. 5/31/24 - It remains unclear how infrastructure		this remains.
			be difficult to resolve and lead to project disruption. If DHS intends to					complexity will impact DR testing and execution. 4/30/24 - No material		10/11/2023
			eventually reduce M&O outsourcing costs turning over M&O tasks to State					update in this reporting period. 3/31/24 - During a recent Change Control		
			employees, they could face challenges supporting tools they may not be					Board (CCB) meeting the ASI presented DHS with a for-cost change request		
			familiar with in a complex infrastructure environment.					(CR) to the design of the Secure Enclave (the addition of roles). In the CCB, it		Please refere
								was clear that DHS and the ASI were not in agreement regarding the funding		your updates on
								of this change request. 2/29/24 - No material update in the reporting		finding #82 Secu
								period. 1/23/24 - No material update in the reporting period. IVV continues		and Privacy whi
								to monitor this finding. 12/31/23 - No material update in the reporting		documents the
								period. IVV continues to monitor this finding. 11/30/23 - Some components		being done for t
								of the BES system infrastructure have yet to be finalized and tested, it		Secure Enclave.
Insufficient configuration management Fors, Michael Finding - could lead to development confusion and Risk reduce the effectiveness of defect resolution								remains unclear how or if the added complexity will impact project		
								schedules and budgets going forward. The ASI has reported they are close		
		nd The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the		OPEN ASI adhere to plans for configuration management as documented		2 2 Low	Open	10/31/24 - This finding will be reevaluated by the IVV team after the project		
	Development			in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DH				team completes the replanning and determines the approach,		
		progress has been made toward establishing CM processes and governance relection CM tools (e.g., CMDR), and building out the CM infrastructure. Th	e, includes tools that may provide a level of automation for Configuration Management that may reduce errors and should provide the project team	 ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or rettings they will track 	*			requirements/functionality, and schedule for the Pilot and Statewide rollout. 9/26/24 - The ASI had recently stated they plan to update their		9/9/2024
			with accurate, dynamic and timely information on some of the configuration					Syze/24 - The Astriac recently stated they plan to update their Configuration Management Plan (CMP) list of configuration items (Cis) and		Still in progres
		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					CMP procedures by 9/20/24 but has since experienced some delays in		to update
		relies on Github for tracking of some configurations.	are included in the configuration plan along with the details regarding the					completing these activities. 8/22/24 - IVV has vet to receive a detailed.		Configuration
					~			comprehensive list of configuration items the ASI will be tracking. 7/26/24 -		Management P
		relies on Github for tracking of some configurations.								of items. Two
		relies on Github for tracking of some configurations.	management of the configuration items, reporting and audit features.	configuration management activities and assure defined CM steps and plan are being followed are effective, and are achieving DHS objectives for CM.						
		reses on ultitud for tracking of some configurations.		configuration management activities and assure defined CM steps and plan are being followed, are effective, and are achieving DHS objectives for CM. 7/31/2022				No material update for this reporting period. 6/20/24 - No material update for this reporting period. 5/31/24 - IV/ has yet to receive a detailed		
		relies on Gimub for tracking of some configurations.		are being followed, are effective, and are achieving DHS objectives for CM.				for this reporting period. 5/31/24 - IVV has yet to receive a detailed,		documents,
		relies on Gimula for tracking of some configurations.		are being followed, are effective, and are achieving DHS objectives for CM.						documents, management
		relies on ultitud for tracking of some configurations.		are being followed, are effective, and are achieving DHS objectives for CM.				for this reporting period. 5/31/24 - IVV has yet to receive a detailed, 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 the ASI will be tracking. 3/31/24 - Responsibility for the Configuration		documents,
		reses on untue for tracking of some configurations.		are being followed, are effective, and are achieving DHS objectives for CM.				for this reporting period. 5/31/24 - IVV has yet to receive a detailed, 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		documents, management p (end of week),
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		read on unnue for fraceing of some congulations.		are being followed, are effective, and are achieving DHS objectives for CM.				for this reporting period. 5/31/24 - I/W has yet to receive a detailed, comprehensive list of configuration times the AV will be tracking. 4/30/24 - I/W has yet to receive a detailed, comprehensive list of configuration items the AS will be tracking. 3/31/34 - Responsibility for the Configuration Management Plane (DMP) reverted to the ASI (periodus); the DHS Security Contractor was updating the CMP for related security controls). The ASI is resuming this scope of work at a time when its resources are stretched and the ASI (periodus).		documents, management p (end of week), Configuration Management procedures (m
		read on unmue for fraceing of some congulations.		are being followed, are effective, and are achieving DHS objectives for CM.				for this reporting period. 5/31/24 - IVV has yet to receive a detailed, comprehensive list of configuration litems the A3W lite be tracking, 4/30/24 - IVV has yet to receive a detailed, comprehensive list of configuration items the A3 will be tracking, 3/31/24 - Responsibility for the Configuration Management Plan (CMP) reverted to the A3 (previously, the DHS Security Contractor was updating the CMP for related security control). The A3 is		documents, management ((end of week), Configuration Management procedures (m detailed). Wo
		read on unnue for fraceing of some congulations.		are being followed, are effective, and are achieving DHS objectives for CM.				for this regarding particle, 51(1)/24 - NV has yet to receive a detailed, comprehensive line (1) configuration immer Mol Will be tracking, 4/30/24 NV has yet to receive a detailed, comprehensive is tot configuration (marked) will be tracking 10/11/24. Responsible for the Configuration Management Plant (1)(MP) reverted to the AG () previously, the DS () Sacodfyn Management Plant (1)(MP) reverted to the AG () previously, the DS () Sacodfyn Humming film scored work at a limit when the resources are attracted and may lead to ADP and configuration management quality challenges. 21/29/4 - No market period. 11/21/4 - No		documents, management ((end of week), Configuration Management procedures (m detailed). Wo with Mark M o should be incli
		read on unmue for fraceing of some congulations.		are being followed, are effective, and are achieving DHS objectives for CM.				for the regarding period. $3.512/4$ - NV has yet to receive a detailed, comprehensive list of configuration imme that AWII bit schules, $4/30/4$ - NV has yet to receive a detailed, comprehensive list of configuration mus- tantic schules, $4.512/4$, $4.$		documents, management ; (end of week), Configuration Management procedures (m detailed). Wo with Mark M o should be incli Trying to work
		read on unnue for tracking of some computations.		are being followed, are effective, and are achieving DHS objectives for CM.				for this reporting particle, 512/124 - NV has yet to receive a detailed, comprehensive list of comprastion items that Skill bit tracking, 4/30/24 NV has yet to receive a detailed, comprehensive ist of configuration items Ac3 and bit tracking, 312/124 - Responsibility for the configuration Management Fian (2004) revention to the AG3 (perioduc), the AG3 contractor was updating the QMF or relative storing, control, the AG3 contractor was updating the QMF or relative storing, control, the AG3 explored the AG4 and a configuration management quality childings ray leads to AGM and configuration management quality childings. 22/20/24 - Non matterial update in this regoring period. 12/21/24 - No material update in the regoring period. 12/21/23 - The project will attlies the DK3 contractor county sactivity with seventy sectivities to update the		documents, management (end of week) Configuration Management procedures (n detailed). Wo with Mark M i should be incl Trying to wori folks who real
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