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July 22, 2024

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

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

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

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

Sincerely,

Tom The

Tom Ku Acting 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: June 1 – 30, 2024

Submitted: July 15, 2024



Solutions that Matter

Overview

- <u>Executive Summary</u>
- <u>IV&V Findings and Recommendations</u>
- <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>
 - <u>D</u> Background Information



Executive Summary

Executive Summary



The Project achieved a major milestone in the June reporting period with the start of Final Acceptance Testing (FAT) for the BES 1.0 release. The ASI worked to resolve the defects found in System Integration Testing (SIT) to meet the scheduled date for the completion of SIT. By meeting the SIT exit criteria with some contingencies, FAT was able to start on June 24, 2024.

With the project entering this key phase of FAT and moving closer to Pilot and Statewide Go-Live, IV&V is monitoring the project team's progress in the following areas.

- The quantity and severity of defects found in FAT will show the strength of SIT in verifying that BES is ready for DHS testing and acceptance. Some of the BES 1.0 functionality (mostly reports) will be phased into FAT, requiring additional coordination between DHS and the ASI.
- The Project's ability to perform according to the approved BES Project Schedule continues to be a high-risk area. Realizing the revised dates could be challenging while managing the complexity of supporting DHS in FAT, completing the remaining BES 1.0 work that will be phased into FAT, developing BES 1.1 functionality, and preparing for the September 16, 2024, Pilot start.
- DHS has requested documented workarounds from the ASI that address how requirements will be met in areas where the BES functionality will not be delivered for Pilot. This has been an ongoing topic in the weekly readiness meetings, but DHS has not received any documentation. Having this information available is important for DHS's preparation for Pilot and end-user training.

IV&V notes the DHS and ASI positive collaboration continues to show the team's commitment to this Project.

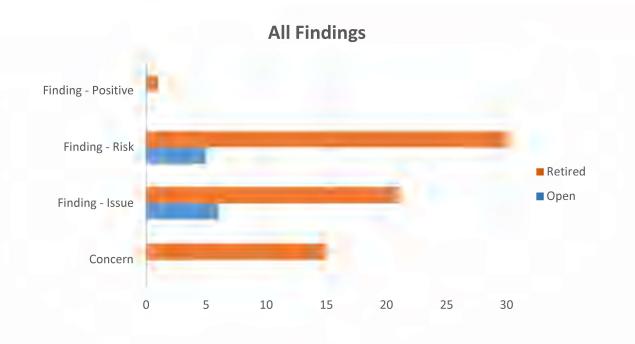
Apr	Мау	Jun	Category	IV&V Observations
н	H	Н	Project Management	This category remains at High risk because the schedule has been revised six times due to delays since February 2023. With the project schedule re-baselined in June, IV&V will monitor the project team's execution of tasks according to the scheduled dates.



Apr	May	Jun	Category	IV&V Observations
M	M		System Design	Positive progress with DHS and ASI design collaboration has moved the Criticality Rating of this category to 'Low'.
M	(M)	M	Configuration and Development	The ASI is developing agile burndown charts that should provide DHS visibility to the productivity of the development team, identifying work in a complete status and the work remaining.
B	M		Integration and Interface Management	The ASI created and is executing interface testing. The testing results are expected to be available in July 2024.
Ð	H	H	Testing	The Project completed the SIT and started FAT testing phases for BES 1.0, a significant milestone. However, testing challenges remain, including the number of reported defects, which the project team and IV&V are monitoring.
H	н	H	Security and Privacy	This category remains a 'High' risk to the project. The System Security Plan (SSP) references thirty-nine documents that are in draft form or do not exist. Thirty of these documents are DHS' responsibility, and nine (9) are the ASI's responsibility. These gaps in documentation may delay the completion of the SSP, which is required for Pilot.
M	M	M	Requirements Analysis & Management	The ASI updated the Requirements Traceability Matrix (RTM) in response to DHS comments. The BI-21 RTM for BES 1.0 was not ready for DHS deliverable review by the end of the month as planned due to the format not meeting DHS expectations. DHS and IV&V will review the revised deliverable when published to ensure the contractual requirements are effectively and completely tracked and validated through DHS' final acceptance.

As of the June 2024 reporting period, PCG is tracking 11 open findings (5 risks, 6 issues) and has retired a total of 76 findings. Of the 11 open findings, 4 are High, 4 are Medium, and 3 are Low. **Open Risks & Issues** Security and Privacy Integration and Interface Management Testing Open - Med System Design Open - Low Open - High **Requirements Analysis & Management Open Risks & Issues by Category** Project Management Configuration and Development Project Management Configuration and Development Requirements Analysis & Management System Design 0 1 2 3 Testing Integration and Interface Management Security and Privacy

The following figure provides a breakdown of the 87 IV&V findings (positive, risks, issues, concerns) by status (open, retired).



Findings Retired During the Reporting Period

#	Finding	Category
95	A lack of documented negative tests (e.g., invalid inputs, boundary testing, and deviations from the normal flow) may lead to an inability to confirm this testing occurred.	
	IV&V reviewed the sample set of negative tests (e.g. issuance of warnings and error messages resulting from invalid data and invalid security permissions) and test results provided by the ASI and confirmed that the testing is being accounted for. Therefore, IV&V is closing this finding.	Testing



Preliminary Concerns Investigated During the Reporting Period

# Finding	Category
None	
None	

Findings Opened During the Reporting Period

Project Management

H
Progress
In Process
In Process
In Process
1

ASI provides Burndown charts that provide visibility into 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. Per DHS's request, the ASI is currently developing a list of workarounds to address known gaps in BES 1.0 functionality.	М
Re	commendations	Progress
	Increase OCM efforts to effectively manage user, general public, and legislative expectations for BES version at go-live.	In process
	Prioritize feedback from users and FNS to ensure the solution meets their core needs and so users are clear on what features they are, and are not, getting.	In process
	Actively monitor, assess, and address potential challenges throughout the development process including code quality, cutting scope to meet development milestones, insufficient user validation of demonstrated functionality, and fully defined workarounds to accommodate for the missing functionality.	In process
	Actively monitor FAT and Pilot feedback and track users' biggest pain points. Pain points can then be prioritized based on negative impact and project leadership can decide if fixing or changing poor designs can be implemented prior to go-live.	Not Started

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. IV&V observed DHS and the ASI working collaboratively in a setting that promoted healthy dialogue on the DES design therefore, the criticality ratios is undeted from a medium to law.	L
T	BES design therefore, the criticality rating is updated from a medium to low.	
Recommendations		
	Perform Sprint and Epic demos in alignment with development Sprint completion (demo unctionality/requirements as they are developed) to get early feedback on work products.	In Process

System Design

#	Key Findings	Criticality Rating
73	Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts. No material update for this reporting period.	L
Rec	ommendations	Progress
	SI develop a process to closely monitor cloud and other product changes (software updates/new releases), nanage changes, and regression test once updates are applied.	In process
	he project team work to establish strong governance over the utilization and maintenance of various pols/components.	In process
	SI allot time in the schedule to conduct proof of concepts to assure infrastructure components work as xpected.	In process
	SI maintain a detailed schedule for DevOps implementation tasks to avoid unexpected delays that could delay roject 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. No material update for this reporting period.	L
Rec	ommendations	Progress
	SI adhere to plans for configuration management as documented in BI-6 DDI Plan, Section 5.2 and clarify etails and/or any changes with DHS.	In process
	SI validate plans for configuration management with DHS and agree on a meaningful set of configuration ems or settings they will track.	In process
	OHS and ASI work to clarify/solidify plans for the potential use of configuration management tools and DHS work to fund and procure a CM tool, as required, to avoid any negative impacts to the Project.	In process



Configuration and Development

Key Findings

Issue – Development delays could negatively impact the project schedule and delay go-live.

80 The ASI adjusted how they calculate velocity to provide greater transparency on the level of progress. The ASI is creating burndown charts to provide greater visibility/clarity into their development productivity and progress. The Project continues to be challenged with high defect rates which pose code quality risks that could delay go-live.

Recommendations		
•	ASI effectively track and regularly provide DHS (potentially via the weekly DDI status meeting) with an accurate velocity (e.g., story points per day/week/month) and assure that the current velocity is accurately and consistently reflected in the project schedule.	In process
•	The ASI should provide DHS with the time needed to effectively evaluate the software demonstrations (demos) and elicit productive design discussions with DHS attendees during each demo.	In process
•	ASI regularly reports estimated story points for the total remaining project work to reach go-live and presents a dynamic burn-down chart to track the progress.	Not started
•	The ASI should consider enhancing the depth of developer unit testing.	Not started

Criticality

Rating

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· Test data fields for system impacts resulting from data that is poorly formatted, out of range, or other



Integration and Interface Management

0	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 ASI 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 executed to be complete by mid-July. The Office of Information Technology (OIT) will be required to provide special case file alterations.	М
Re	commendations	Progress
•	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

unexpected data transmission errors.

In Process

19

IV&V Findings and Recommendations

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	Improvement of System Integration Testing (SIT) defect resolution totals addressed IV&V's concern that the high number of unresolved defects would delay SIT exit. The ASI exited the SIT phase as scheduled on 6/21/2024 with 91 unresolved defects (43 medium severity and 48 low severity, or 10% of the total) compared to 352 unresolved defects at the end of May and with no unresolved critical and high-priority/severity defects. However, IV&V is concerned that the project team entered Final Acceptance Testing (FAT) on 6/24/2024 without approved versions of the RTM and System Integrity Review Tool (SIRT) deliverables. While the SIRT is not a criterion for entering FAT, both the RTM and SIRT deliverables demonstrate that the BES system meets functional and contract requirements. Risk exists that testers may identify unmet contractual requirements during FAT execution that delay the Pilot or result in the need for workarounds that can compromise system usability or user satisfaction. IV&V will monitor testing results and trends as the project moves through FAT execution.	ł

Recommendations	
• Monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested.	In Process
 ASI should determine the root cause of the failure to identify simple defects in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering UAT/FAT. 	ent In Process

HI Systems Modernization Independent Verification & Validation Monthly Report: June 2024

IV&V Findings and Recommendations

Testing

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#	Key Findings	Criticality Rating
89	Issue – The current mitigation approach to complete the development of the remaining Epics is condensed and aggressive and may increase the likelihood of schedule delays, quality issues, and a higher volume of testing defects.	
	In May, the ASI published a revised implementation schedule that extended design, development, and System Integration Testing (SIT) execution and delayed the start of Final Acceptance Testing (FAT) by six weeks. This extension allowed the ASI to adopt a risk-reducing change to deliver all functional groups to the remainder of SIT without phasing in functionality. However, the current schedule postpones the development of some reports and includes phasing into SIT and FAT reports (Group 1 and Group 2) and the TANF data extract and Mass Change (Group 3). In addition, with DHS's approval, the ASI shifted a subset of reports from Group 1 (SIT completion of 6/21/2024) to Group 2 (SIT completion of 7/19/2024). IV&V is concerned that the phasing reports into FAT and overlapping development and testing efforts adds complexity to resource and schedule management and can compromise test execution quality.	H
Paga	mmendations	Drogroop
		I Proaress

The ASI provides comprehensive INT results and SIT scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution.	
In I In I The ASI validates that development and testing resources have sufficient bandwidth to complete overlapping In I	process
	process
	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	The ASI reported that they continue to author security documentation throughout June 2024. All available documentation, such as policies or procedures cited in the system security plan (SSP), has been provided to the BES third-party security assessment team. Seventy-nine (79) documents are cited in the SSP by name. Thirty-nine (39) of those documents are either in draft form or do not exist. Of the thirty-nine (39) documents, thirty (30) documents DHS was identified as the owner, and nine (9) the ASI was recognized as the owner. Penetration testing was moved from the UAT environment to the production environment and the assessment team was ensured that production and UAT were in parity with each other. One reason to move the environment was to keep the penetration testing from interfering with final acceptance testing. The ASI reports the production environment will be available for penetration testing on July 1st, 2024. However, this delayed the penetration testing another week. The Social Security Administration (SSA) is scheduled to perform its security assessment on July 8th, 2024.	
_		
Recommendations		

•	Determine when the infrastructure design baseline will be completed.	Complete
•	Determine when documentation will be created, updated, and available for the SSP authors.	In process
•	Collaborate and communicate with SSP authors about when reliable and correct documentation will be available.	In process
•	Perform a full review of all SSP controls for content and accuracy that have been written as drafts prior to the start of the Independent Security Controls Assessment of BES and submission of the SSP package to federal regulators. This will allow the SSP authors to update controls with changes from Design through Implementation.	In process



Requirements Analysis & Management

Key Findings

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.

IV&V is reporting positive movement on this risk this month. The ASI delivered a draft BI-21 RTM to DHS and used DHS feedback to revise the 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 to further streamline the RTM format and align more closely with the Deliverable Expectations Document. An approved RTM was not delivered by 6/21/2024 per the schedule nor by the end of this reporting period. Until the ASI submits a final RTM for review, the risk remains that all contractual requirements have not been fully validated, which could result in a system with unmet user needs.

Recommendations		Progress
•	Develop a document that provides DHS with a feasible and effective way to map requirements to passed test cases, and, per the BI-19 (Complete and Final Test Plan),"Maps the 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

Criticality

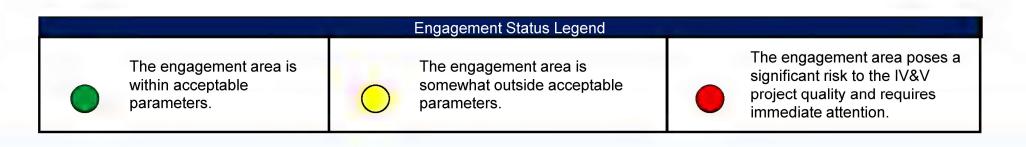
Rating

IV&V Status



IV&V Engagement Status

IV&V Engagement Area	Apr	Мау	Jun	Comments
IV&V Budget		•		
IV&V Schedule				
IV&V Deliverables				PCG submitted the final May IV&V Monthly Status Report.
IV&V Staffing		•	0	
IV&V Scope				



IV&V Activities



- IV&V activities in the June reporting period:
 - Completed May Monthly Status Report
 - Ongoing Review the BES Project Artifacts and Deliverables
 - Ongoing Attend BES Project meetings, (see <u>Additional Inputs</u> pages for details)
 - Reviewed available ASI contracts and contract amendments documentation
- Planned IV&V activities for the July 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
BI-5 Project Schedule - BES 2023 Primary	06/05/2024, 06/12/2024, 06/19/2024	N/A
BI-5 Project Schedule - BES 2023 DDI	06/05/2024, 06/12/2024, 06/19/2024	N/A
M&O Project Schedule	6/17/2024	N/A
BI-21 Release 1.0 Functional and Technical RTM	6/24/2024	N/A

Additional Inputs – Artifacts



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

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. IV&V Team Meeting 6/3/2024, 6/6/2024, 6/10/2024, 6/13/2024, 6/17/2024, 6/20/2024, 6/24/2024, 6/27/2024
- 2. IV&V May 2024 Pre-Draft MSR Findings Review 6/7/2024
- 3. HI DHS BES January Draft IV&V Report Review 6/14/2024
- 4. Bi-Weekly DHS and IV&V Touch Base 4/2/2024, 4/9/2024, 4/16/2024, 4/30/2024
- 5. Weekly BES Infrastructure meeting 6/7/2024, 6/14/2024, 6/21/2024, 6/28/2024
- 6. DHS/IV&V Check-in 6/6/2024, 6/21/2024
- 7. Weekly Client BES 2023 Project Status Meeting 6/5/2024, 6/12/2024, 6/19/2024, 6/26/2024
- 8. Security Touchpoint 6/5/2024, 6/12/2024, 6/19/2024, 6/26/2024
- 9. Weekly Data Conversion Workgroup 6/4/2024
- 10. (Externa(I) Weekly Interfaces Touchpoint 6/3/2024, 6/17/2024, 6/25/2024
- 11. (External) Readiness Working Group Meeting 6/4/2024, 6/18/2024
- 12. (External) Bi-Weekly Client BES 2023 Schedule Review/Status 6/5/2024
- 13. (External) Bi-weekly BES CCB Meeting 6/12/2024, 6/26/2024
- 14. (External) BES: FNS Connect 6/6/2024, 6/20/2024
- 15. (External) C!A Current Weekly Checkpoint- 6/4/2024, 6/18/2024, 6/25/2024
- 16. [External] BES M&O Project Schedule Review- 6/20/2024
- 17. eWorld/IV&V Mid Month Check-in 6/21/2024
- 18. (External) BES M&O Project Status Meeting 6/3/2024, 6/10/2024, 6/17/2024, 6/24/2024
- 19. (External) BES BI-05 Project Schedule updates DCF 6/5/2024, 6/6/2024
- 20. (External) BES Data Conversion Source to Target Mapping Review 6/6/2024, 6/13/2024, 6/18/2024, 6/20/2024
- 21. (External) DHS BES M&O Working Session #2 6/12/2024
- 22. (External) Report A Change (RAC) Design kick-off meeting 6/12/2024, 6/19/2024, 6/21/2024, 6/25/2024, 6/26/2024, 6/27/2024, 6/28/2024
- 23. (External) DHS BES M&O Working Session #3 6/14/2024
- 24. (External) BES M&O Service Now Demo#1 6/18/2024
- 25. (External) BES M&O Service Now Demo#2 6/19/2024
- 26. (External Epic Demo) Epic 209 Work Participation 6/20/2024
- 27. (External) BES 1.0 FAT Go/No-Go 6/21/2024
- 28. (External) BES 1.0 FAT Kickoff 6/24/2024
- 29. (External Epic Demo) Epic 203 Report Viewing and On-demand Submission 6/25/2024

Appendices



Appendix A – IV&V Criticality Ratings

Criticality
RatingDefinitionHA 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.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.

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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
СМ	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
РМО	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





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

- Security and Privacy
- Requirements Analysis & Management
- System Design

OCM and Knowledge Transfer

Testing

- Configuration and Development
- Pilot Test Deployment
- Integration and Interface Management
- Deployment



Solutions that Matter

HI DHS Monthly IV Status Report Final - June 2024

tle Reporter	Finding Type	Identified Date Category	Observation	Significance	Recommendation Event Horizon	Analyst Impact Probability Priority	Finding Status	Status Update Client Comments	Mendo
e lack of an effective way to validate BES Hackett,	Finding -	4/25/2024 Requirements	The Requirements Traceability Matrix (RTM) (BI-21) plays a vital role in	It is unclear to DHS and IVV how the ASI will trace requirement coverage for	IN PROGRESS • Develop a document that provides DHS with a feasible and 5/10/2024	3 3 Med	Open (6/30/2024 - IVV is reporting positive movement on this risk this month. The	
quirements could lead to project delays Donna of unfulfilled user needs if DHS later	Risk	Analysis & Management	ensuring the system's compliance with contractual commitments by associating each requirement with passed test case(s). However, the	SIT completion. DHS may be unable to make an informed decision on SIT ex criteria. This could lead to DHS starting Final Acceptance Testing (FAT) and	it effective way to map requirements to passed test cases, and, per the BI-19 (Complete and Final Test Plan). Maps the functional and technical			ASI delivered a draft BI-21 RTM to DHS and used DHS feedback to revise the RTM's structure to simplify the tracing of requirements, use cases, epics,	7/12/2
identifies unmet contractual requirements.			approved project schedule shows the RTM completed on 6/26/24, which	then realizing that not all requirements have been fully met, resulting in				and tests in a single report. The ASI continues to make additional revisions	I'm not
			falls after the Core SIT exit decision on 5/10/24. The ASI provided the BI-22a System Integrity Review Tool (SIRT) to DHS on April 26, 2024, but withdrew	delays.	thoroughly and comprehensively test the system to assure each requirement has been fully met.			to further streamline the RTM format and align more closely with the Deliverable Expectations Document. An approved RTM was not delivered by	worth
			system integrity Review 1001 (SIR1) to DHS on April 26, 2024, bit withdrew the deliverable due to DHS concerns. This BI-22a deliverable may help DHS		has been ruily met.			Deriverable Expectations Document. An approved KTM was not derivered by 6/21/2024 per the schedule nor by the end of this reporting period. Until	ewond an "Int
			validate requirements.				,	the ASI submits a final RTM for review, the risk remains that all contractual	RTM to
								requirements have not been fully validated, which could result in a system	require
								with unmet user needs. 5/31/2024 - In the revised schedule, the ASI provides the BI-21 Requirements Traceability Matrix (RTM) for review on	for ent
								6/7/24 (before FAT entry). The updated SIRT will be provided at the same	
							,	time. Although the RTM is being provided ahead of schedule in response to	06/14/
								DHS' request, DHS now faces reviewing 2 major project deliverables (BI-21 RTM and BI-22a SIRT) during the same 7-day (6/7-14/2024) period. If the	The Bi
								revised schedule does not allow enough time for DHS to review these	deliver
								deliverables or the RTM does not fully support DHS' ability to validate the	review
								BES system requirements, FAT entry and go-live may be delayed. IVV shared	discuss times a
								this concern about the review overlap with the ASI on May 31 and the ASI immediately responded that they would address it.	CCB m
									reports
									have a
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to the lack of physical and technical Reynolds,	Finding -	4/29/2024 Integration and			In Process 1. API interfaces should be tested for failure conditions during 2024 2nd Qtr	4 2 Med		06/28/2024 - The ASI has prepared the test scripts for the 12 interfaces	
ing of the interfaces and data transfer Mark	Risk	Interface	data flow testing is usually part of an interface definition.	difficult-to-resolve issues, such as scrambled or missing data - or the system	n connection and transfer operations. 3. FTP and file interfaces should be			included in the Pilot release. This first round of test scripts reside in the Jira	06/14,
re, conditions may exist with data nat, boundaries, and dependencies.		Management		may have a fault or exception. Since the Project has not established and tested the fault scenarios, we do not know how the system may react.	tested for data and file integrity. 4. Test data fields for system impacts resulting from data that is poorly formatted, out of range, or other			tool and are being executed to be complete by mid-July. The Office of Information Technology (OIT) will be required to provide special case file	As me
e failures may result in intermittent and				server are system may react an internet where you are system may react.	unexpected data transmission errors. Removed 2. [n/a, no transactional			alterations. 05/23/2024 - The ASI and DHS continue to define the interface	May p
to-isolate problems or errors					interfaces therefore no race conditions] API interfaces should be tested for			test approaches. Technical interface testing details, including the Transport	techn
					race conditions. 5. [redundant with #4] Interface records and files should be tested for format, length, or other physical formatting errors.			Layer, are planned to be discussed in June.	team to ode
					testes for format, length, or other physical formatting errors.				recor
									this fi
									As me
									pre-m
									Interfa does e
									POG's
									recom
									this fir
current approach to complete Hackett,	Finding -	12/21/2023 Testing	Ten of the Epics scheduled for completion before Release 0.12 SIT will not	Overlapping development and testing introduces potential quality issues.	OPEN - The ASI validates that development and testing resources have Now	4 5 High	Open I	6/30/2024 - In May, the ASI published a revised implementation schedule	
elopment of the remaining epics is Donna densed and aggressive and may increase	Issue		be ready. To avoid SIT delays, the current approach is to begin SIT without the 10 Epics and test them as they are completed. Additionally, Release 0.12	Insufficient INT may create gaps in SIT, leading to further quality issues. This	sufficient bandwidth to complete overlapping assigned responsibilities - Develop Contingency Plans if the mitigation plan continues to see slippage			that extended design, development, and System Integration Testing (SIT) execution and delayed the start of Final Acceptance Testing (FAT) by six	06/14
likelihood of schedule delays, quality			development that was extended two weeks from the scheduled end date ha		affecting INT and SIT The ASI provides comprehensive INT results and SIT			weeks. This extension allowed the ASI to adopt a risk-reducing change to	Why is
s, and higher volume of testing defects.			been extended for another ten business days.		scenarios for incomplete Epics to DHS for review/approval ahead of SIT			deliver all functional groups to the remainder of SIT without phasing in	This s
					execution. CLOSED - The plan to complete BES implementation does not include overlapping testing phases (5/24/2024) - The ASI should evaluate if			functionality. However, the current schedule postpones the development of some reports and includes phasing into SIT and FAT reports (Group 1 and	yellow after
					Epics entering SIT late might require retesting functionality that had already			Some reports and includes phasing into sil and Hall reports (Group 1 and Group 2) and the TANF data extract and Mass Change (Group 3). In addition,	arter
					been tested. (closed 06/01/2024) - The ASI release a detailed schedule of			with DHS's approval, the ASI shifted a subset of reports from Group 1 (SIT	In ad-
					events, including development completion, INT start, and SIT start for each epic covered in the mitigation plan. [closed 06/01/2024] CANCELED -			completion of 6/21/2024) to Group 2 (SIT completion of 7/19/2024). IV&V	lister All SI
					epic covered in the mitigation plan. (closed U6/U1/2024) CANCELED - Develop a Risk Mitigation Plan to address challenges of managing multiple			is concerned that the phasing reports into FAT and overlapping development and testing efforts adds complexity to resource and schedule management	All Si revie
					test environments, multiple code bases and versioning within and across			and can compromise test execution quality. 5/31/2024 - The risk of a	appr
					Releases.			schedule delay was realized when the ASI published a revised project	The
								schedule (under DHS review as of 5/30/2024) that extends design, development and SIT execution and pushes the start of FAT from 5/13/2024	need epics
								to 6/24/2024. IVV will evaluate performance to the revised schedule (which	epics in.04
								removes the overlap of remaining pilot development and test execution	
								efforts) to determine whether these actions will help to avoid further	eWo
								schedule delays. 4/30/2024 - The eight Epics expected to enter SIT in a phased approach are delayed and have not done so by the end of April. SIT	follo
								is scheduled to end for these Epics on May 23, 2024. Of 348 executed core	docu
								correspondence SIT tests, 177 (51%) failed, with the Eligibility Client	19 fc
								Correspondence type comprising 83% of those failures. The high proportion of failed SIT correspondence tests supports IV&V's ongoing concern that	were to the
								overlapping testing phases and BES releases compromise test execution	to tr as a
								quality. IV&V is also concerned that the high number of SIT defects detected	deci
	d Finding -	11/30/2023 Project	The project has elected to implement a Core Solution at eo-live to meet their	Going live with a limited version of a software product entails inherent risk	, OPEN • Increase OCM efforts to effectively manage user, general public, and Now	3 3 Med	Open	within a single correspondence type indicates its complexity and increases 6/20/24 - Per DH5's request, the ASI is currently developing a list of	was
nenting a Core Solution for go-live Moline Bran	Risk	Management	stated timeline. This version is generally referred to in Agile software	such as potential challenges in securing user buy-in. This can result in	legislative expectations for the Core Solution approach.	5 5 Meu		workarounds to address known gaps in BES 1.0 functionality. 5/23/24 - No	
s inherent risks that may impact			development as a Minimum Viable Product (MVP), which is a simplified	limited user adoption, user dissatisfaction, and negative publicity,	from users and FNS to ensure the Core Solution meets their core needs and			material update. 4/30/2024 - No material update. 03/30/24 - The ASI's Go	
inherent risks that may impact project success and reduce user				f particularly considering the financial investment made for the delivery of limited functionality. A compressed timeline may compromise the quality or	so users are clear on what features they are, and are not, getting in the for eleased product + Actively monitor, assess, and address potential			to Green plan and project schedule were approved by DHS. Per the Go to Green plan, some required BES functionality will be implemented post-Pilot.	04, "Sor
inherent risks that may impact project success and reduce user				designs, user interface sophistication, and lead to an uptick in software bug	s challenges throughout the core solution development process including			This may create unplanned workarounds and rework as the full impact of	fun
inherent risks that may impact project success and reduce user				and suboptimal code. Further, this approach may expose the project to	code quality, cutting scope to meet development milestones, insufficient			this approach becomes known through testing and training. 02/29/24 - The	impl
inherent risks that may impact project success and reduce user					user validation of demonstrated functionality, and fully defined			ASI drafted a Go-to-Green plan that includes an October 2024 Go-Live date, with several features to be released after Pilot. Implementing the	Pilot
s inherent risks that may impact I project success and reduce user				regulatory compliance risks, such as last-minute objections from regulatory				with several features to be released after Mict. Imprementing the functionality of a core solution not tested in a real-world Pilot environment	mea the i
s inherent risks that may impact I project success and reduce user				regulatory compliance risks, such as last-minute objections from regulatory bodies like FNS, which could find certain system elements non-compliant with their standards and delay the go-live date. Misalignment between	workarounds to accommodate for the missing functionality. • Actively monitor FAT and Pilot feedback and track users' biggest pain points. Pain				
s inherent risks that may impact II project success and reduce user				bodies like FNS, which could find certain system elements non-compliant with their standards and delay the go-live date. Misalignment between stakeholder expectations and the Core Solution may lead to dissatisfaction	monitor FAT and Pilot feedback and track users' biggest pain points. Pain points can then be prioritized based on negative impact and project			may lead to unexpected issues and bugs. IVV remains concerned that user	upda
s inherent risks that may impact II project success and reduce user				bodies like FNS, which could find certain system elements non-compliant with their standards and delay the go-live date. Misalignment between stakeholder expectations and the Core Solution may lead to disatisfaction or a lack of support for the project and could negatively impact future	monitor FAT and Pilot feedback and track users' biggest pain points. Pain points can then be prioritized based on negative impact and project leadership can decide if fixing or changing poor designs can be implemented			expectations will not be fully met as the go-live system will be missing	
inherent risks that may impact project success and reduce user				bodies like FNS, which could find certain system elements non-compliant with their standards and delay the go-live date. Misalignment between stakeholder expectations and the Core Solution may lead to disatisfaction or a lack of support for the project and could negatively impact future project funding requests. Implementing a limited Core Solution trypically	monitor FAT and Pilot feedback and track users' biggest pain points. Pain points can then be prioritized based on negative impact and project			may lead to unexpected issues and bugs. IV/ remains concerned that user expectations will not be fully met as the go-like system will be missing functionality that could be important to many users. 0J282(32 - The ASI neemby transitioned the OCM leadership role to a new resource. OCM	"Per
s inherent risks that may impact II project success and reduce user				badies like FNS, which could find certain system elements non-compliant with their standards and delay the polive date. Missignmen between stakeholder expectations and the Core Solution may lead to dissatisfaction or a lack of support for the project and could negatively impact future project funding requests. Implementing a limited Core Solution typically requires the customer to implement multiple vorlarounds until automated features can be built into the system. Users could become impaint in fit	montor FAT and Pilot feedback and track user's biggest pain points. Pain points and they be prioritized based on mediative impact and groups laderships can decide if fixing or changing poor designs can be implemented prior to pol-Nec. ONE/TET COLSEP. ONE/Soft Cold Soft Soft Soft Soft Soft Soft Soft Soft			expectations will not be fully met as the go-live system will be missing functionality that could be important to many users. 2012/3723 - The ASI recently transitioned the OCM backership role to a new resource. OCM activities will be crucial in reducing the trick associated with implementing	"Per plan impl
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imited collaboration between the ASI and Molina, Brad Findir	pe Date Category g - 8/1/2023 System Design	Observation During the UAT process for release 11, there has been a high level of	Significance A significant amount of money and DHS resource time have been invested in	Recommendation		2 Probability Priority 2 2 Low	Status Open	Status Update 6/31/2024 - IV&V observed DHS and the ASI working collaboratively in a	Client Comments 10/11/2023 Jessica - Our SMFs are receipting their feedback. This is an	Vendor Con
HS in the design process could lead to BES Issue	 e/s/zoza system Design 	concerns raised by the DHS testers regarding the usability of the BES system	the BES solution, with the expectation that the new system will at minimum	sprint completion (demo functionality/requirements as they are developed		* 2 LOW	open	setting that promoted healthy dialogue on the BES design therefore, the	the items that I clarified with IV&V, that there are feedback given, no	
bility issues and functionality gaps in the		challenges with the user interface, missing functionality, and basic screen	provide all functionality found in current applications - but really should					criticality rating is updated from a medium to low. 05/30/2024 - The ASI		06/14/2024
plications, not meeting critical business eds for DHS and State clients.		layout issues that would not be expected in a modern application. Based on defect resenting from the LIAT property of layout majority.	provide additional capabilities, greatly enhanced user interface, and overall improved usebility from surrent systems. Should the solution foll short of	the effectiveness of the recorded Sprint review process to ensure that deviate align with DNS exceptions. (closed 2/03/2024) includes and				plans to continue live Sprint Demos for the remaining Epic design work, providing a venue to increase collaboration with DHS. The SSP development	wants to meet with our reviewer to validate this.	Why is this i
needs for DHS and State clients.		related to "design errors". Although the Release 11 UAT cycle was testing a	improved usability from current systems. Should the solution fall short of expectations, there may be challenges in DHS staff adoption; lack of	designs align with DHS expectations. (closed 3/31/2024) - Include a wide enough audience in all design and demo sessions to validate FNS and DHS				will follow the Waterfall methodology, so no sprints or demos will occur.		Started? We
		partially build system, a significant amount of design defects was	confidence in the solution providing the accurate information needed to	functional and technical requirements and system usability. (closed				04/30/2024 - IVV commends the ASI and DHS team for reverting to		sprint demo
		attributable to functionality developed for Release 11.	provide benefits to HI citizens; reduction in ability for DHS to provide the	6/14/2024) - Perform comprehensive (demo all requirements) review				conducting four live sprint demos in support of Epic 209. These proved to		209. In addi
			same level of needed services to clients, resulting in bad publicity for DHS and the state.	during Epic demos, not just the items that were added/updated, allowing DHS to provide early feedback on possible issues/eaos that might not be				enable timely, efficient collaboration. 03/31/2024 - Due to a high number of guestions and concerns from DHS during Epic demo 261 (Approvals and		should not i Epic demos.
			and the state.	DHS to provide early reedback on possible issues/gaps that might not be apparent when focusing on specific functionality. (closed 6/14/2024)				of questions and concerns from DHS during Epic demo 261 (Approvals and Supervision), the ASI committed to hosting another demo to address all the		always had I
								feedback. Changes raised late in the design process could require code		demos.
								changes, potentially causing schedule delays or the resulting solution not		Regarding S
								meeting the business need. DHS staff attending Epic demos should be		following th Waterfall
								prepared with an understanding of the agreed-upon designs and policy requirements relevant to the Epic so that feedback is efficient and on point.		methodolog
								02/29/2024 - One demo (Epic Demo 211) was held in February as the ASI		has approve
								focused on developing a Go-to-Green Plan for the Project. DHS also raised		designs, exc
								concerns in Readiness meetings regarding a gap in design where eligibility is not forced to run when critical benefit data is modified on a case – which		We are colla
								not forced to run when critical benefit data is modified on a case – which could also point to a gap in collaboration on key design decisions.		with DHS to their approv
								01/31/2024 - DHS viewed Sprint demos for Epics 247 and 284 on January 9,		outstanding
								2024, where several concerns/issues were raised, resulting in necessary bug		Design sess
								fixes. User experience issues that should have been raised during the sprint		scheduled a
								demos were brought up during the Epic Demo for Epic 240 (repayment agreements), that the ASI is not considering at this time. As of the end of		this process are 20+ peo
								January, the ASI was developing a Go-to-Green Plan to mitigate several		to the desig
								delays, including demos. 12/31/2023 - DHS opened a new high-severity		04/10/2024
ps in test coverage and slower-than- Hackett, Findin	g - 6/2/2023 Testing	After examining the Project's R11 QA Dashboards, R11 Traceability	Identifying defects early is vital for effective testing, as it is more efficient	OPEN -DHS should request that the ASI develop a Corrective Action Plan to	UAT	4 4 High	Open	6/30/2024 -Improvement of System Integration Testing (SIT) defect		
ected progress in testing may result in Donna Issue edule delays if subsequent test phases		Dashboards, and Test Repository, gaps in testing coverage may exist and the progress of testing might be larging. Concerning testing coverage, it appears	and cost-effective to address issues during the early testing stages. If there is slow progress or incomplete testing in the early stages, it can result in	address the failure of prior test phases (Unit, INT) to capture defects that rolled into SIT CLOSED - The ASI should determine the root cause of the				resolution totals addressed IVV's concern that the high number of unresolved defects would delay SIT exit. The ASI exited the SIT phase as		7/12/2024
cover a higher volume of defects and user		that not all epics and use cases in R11 have associated test cases or are	nore defects leaking into subsequent testing phases, necessitating more	failure to identify simple defects in INT and SIT and implement effective				scheduled on 6/21/2024 with 91 unresolved defects (43 medium severity		172672024
Iback than initially anticipated.		testing the correct use cases. In terms of progress, some test cases remain	extensive and riporous testing efforts. Insufficient testing coverage or slower	improvement processes to confirm early testing is adequate before entering				and 48 low severity, or 10% of the total) compared to 352 unresolved		As mention
		unexecuted, and not all defects have been resolved as the project	than-anticipated progress throughout the project lifecycle increases the risk	UAT/FAT (Closed 4/30/2024) NOT COMPLETED - The Project team reviews				defects at the end of May and with no unresolved critical and high-		previously.
		commences System Integration Testing (SIT). The ASI has plans to complete the INT exit criteria by June 16, 2023, about 2 weeks after SIT begins.	of encountering significant delays, extensions, or the introduction of defects	the SIT exit criteria and revises them as needed to ensure UAT/FAT begins				priority/severity defects. However, IVV is concerned that the project team		delivered a
		the INT exit criteria by June 16, 2023, about 2 weeks after SIT begins.	into the production environment during the final testing stage, known as Final Acceptance Testing (FAT).	with the best system possible. (3/31/2024) IN PROGRESS DHS and ASI monitor INT/SIT closely for both breadth and depth of testing to ensure the				entered Final Acceptance Testing (FAT) on 6/24/2024 without approved versions of the RTM and System Integrity Review Tool (SIRT) deliverables.		RTM to DF into FAT in
			construction of the second sec	system is adequately tested				While the SIRT is not a criterion for entering FAT, both the RTM and SIRT		meet the r
								deliverables demonstrate that the BES system meets functional and contract		Go FAT cri
								requirements. Risk exists that testers may identify unmet contractual		terms of t
								requirements during FAT execution that delay the Pilot or result in the need for workarounds that can compromise system usability or user satisfaction.		is deliveral criteria for
								for workarounds that can compromise system usability or user satisfaction. IVV will monitor testing results and trends as the project moves through FAT		criteria for into FAT. P
								execution. 5/31/2024 -On 5/9/2024, 43% (352 out of 818) of the defects		confirm w
								identified during SIT were unresolved. Of those, there were 2 critical severity	·	06/14/202
								defects and 19 high severity defects. By the end of this reporting period, the		
								percentage of unresolved defects decreased to 28% (226 unresolved out of 818 defects). IVV will monitor whether the SIT date extension, introduced as		Why is this is very clea
								sas derects). IVV will monitor whether the sill date extension, introduced as part of May's revised project schedule, improve defect resolution totals	5	have full co
								entering FAT. IVV is concerned that defects not detected in Integration		all the fund
								Testing (INT) continue to leak into SIT, including critical and high-severity		and that w
								defects in numbers remaining consistently above SIT exit thresholds. This		to make it
								defect leakage could delay FAT completion, delay the go-live date, and/or result in incorrect benefit issuance. 4/30/2024 -Defects not detected during		should be i monitoring
								INT that leaked into SIT were comprised of low-level errors such as a button		04/10/202
								not being displayed, missing punctuation, duplicate fields, and data		All test scr
lack of technical documentation may Heath, Dustin Findin to incorrect implementation statements Issue	g - 4/27/2023 Security and Privacy	In April, the ASI/DHS system security plan (SSP) authors began writing	Once the system architecture and design have been completed, the SSP	OPEN - Determine when documentation will be created, updated, and	Prior to the start of the third-party	4 5 High	Open	6/28/2024 - The ASI reported that they continue to author security		06/14/202
I to incorrect implementation statements Issue lelay the System Security Plan	Privacy	supporting the SSP is unavailable, outdated, or in a draft form. During April	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	authors about when reliable and correct documentation will be available	 the third-party assessment. 			documentation throughout June 2024. All available documentation, such as policies or procedures cited in the system security plan (SSP), has been		
any the system second right an		decisions on what tools support the SSP controls are still being decided on.	(ready for federal partner review) is scheduled for September 15, 2023. The	Perform a full review of all SSP controls for content and accuracy that have	· · · · · · · · · · · · · · · · · · ·			provided to the BES third-party security assessment team. Seventy-nine (79)		Feedback a
		Implementation statements are currently being written from the perspective	SSP is a large technical document with hundreds of controls and control	heen written as drafts prior to the start of the third-party assessment and				documents are cited in the SSP by name. Thirty-nine (39) of those		provided b
		of how the system should be designed from the SSP author's perspective instead of how the system is actually designed. The SSP authors need to	enhancements, and each one requires an implementation statement of how	submission of the SSP package to tederal regulators. This will allow the SSP authors to update controls with changes from Design through				documents are either in draft form or do not exist. Of the thirty-nine (39) documents, thirty (30) documents DHS was identified as the owner, and		Rolla at Ma
		instead of how the system is actually designed. The SSP authors need to know and use documentation such as System Architecture and Design,	the control or enhancement has been met.	authors to update controls with changes from Design through Implementation. COMPLETE - Determine when the infrastructure design				documents, thirty (30) documents DHS was identified as the owner, and nine (9) the ASI was recognized as the owner. Penetration testing was		"My conce Security &
		network topology, dataflow, ports and protocols, tools used for logging, etc.		baseline will be completed, (06/30/2024)				moved from the UAT environment to the production environment and the		slide is tha
								assessment team was ensured that production and UAT were in parity with		context pr
								each other. One reason to move the environment was to keep the		regarding
								penetration testing from interfering with final acceptance testing. The ASI		responsib
								reports the production environment will be available for penetration testing on July 1st, 2024. However, this delayed the penetration testing another		majority o document
								on July 1st, 2024. However, this delayed the penetration testing another week. The Social Security Administration (SSA) is scheduled to perform its		document have discu
								security assessment on July 8th, 2024, 5/31/2024 - Throughout May, DHS		previously
								and the ASI continued to author, update, and locate policies cited in the SSP.		thus far b
								Additionally, the ASI is authoring procedure-related documentation needed		to produc
								for the independent Security Assessment. The ASI is nearing the completion		document
								of the design of the Secure Enclave, which will house sensitive data, including federal tax information, 4/30/2024—This risk is now realized.		would not to the rear
								resulting reserva tax information. 4/30/2024—This risk is now realized, resulting in a finding type change from a risk to an issue. DHS and the ASI		additional
								continue to work on documents the security assessment team requested.		5/11/2024
								Some of these documents have not been written yet or are in draft form.		
								The Security Assessment Team requested approximately sixty (60)		
								The Security Assessment Team requested approximately sixty (60) documents and received two documents and six lists of system inventory.		provided b
								The Security Assessment Team requested approximately sixty (60) documents and received two documents and six lists of system inventory. Each document requested is related to implementation responses in the System Security Plan (SSP) regarding how each security or privacy control is		provided b Rolla at pr
		nd. XB had previously reported development activities have been slowed as	If the AS is unable to achieve a velocity that enables them to meet planned		Immediate	3 3 Med	Open	The Security Assessment Team requested approximately sixty (60) documents and received two documents and six lists of system inventory. Each document requested is related to implementation responses in the System Security Plan (SSP) resarding how each security or privacy control is 6/3/02/4 - The SI adjusted how they calculate velocity to provide greater		provided b Rolla at pr "My conce
cted the project schedule and delayed Issue	g - 6/30/2022 Configuration Development	they have been unable to achieve and/or maintain their expected	milestones, schedule delays may lead to a delayed system go-live date.	weekly DDI status meeting) with an accurate velocity (e.g., story points per	Immediate	3 3 Med	Open	The Security Assessment Team requested approximately sixty (60) documents and necessively two documents and six lists of system inventory. Each document requested is related to implementation responses in the System Security Plan (SSP) reacting how each security or anivacy control is Op/30/24 - The ASI adjuted how they calculate velocity to provide greater transparency on the level of progress. The ASI is creating bundwin charts		provided I Rolla at pr "My conce
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HI DHS Monthly IV

Status	Report
Final - Ju	ne 2024

•	Reporter Type	Date Category	Observation	Significance	Recommendation	Event Horizon Impact Probability Priority Status	Status Update	Client Comments Ver
ES Project schedule based on inaccurate		11/29/2021 Project		If estimates for project schedule activities are not accurate, this can lead to			06/31/2024 - The Project's ability to perform according to the approved BES	
mations 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 Schedule continues to be a high risk. The ASI completed their	
resource management, which could				rushed activities, and general frustration which can lead to schedule delays,		d	schedule reviews with DHS and IVV, baselining the schedule on 06/19/2024.	. 7/1
ult in late deliverables, cost increases,			of multiple tools to track resources obfuscate resource management.	low quality output, scope changes, and budget issues.	IVV to determine why the BES project continues to experience schedule		IVV continues to monitor a schedule that has seen six (6) delays to the Pilot	
and a late go-live.			Previous IV&V findings focused on specific schedule components such as		delays ASI Project Management works with the development teams to		and Statewide Go Live dates since the BES 2023 restart in February 2023,	The
			resource management and critical path analysis, all of which were		evaluate the accuracy of development velocity and adjust accordingly to		with two (2) eight-week delays introduced in March and May of this year.	find
			addressed and closed.		reduce risk in the revised BES project schedule. •ASI provides Burndown		The original Pilot start was 01/02/2024, with Statewide Go-live on	refi
				charts that provide visibility into the remaining work. NOT COMPLETED - A	5	04/01/2024. Based on the schedule published on June 29, 2024, Pilot starts	oft	
					provide details on how Velocity measures were used to calculate the		on 09/16/2024, and the Statewide Go-live is on 02/10/25. 05/30/2024 -	pro
					remaining development work. COMPLETE DHS and the ASI agree to a revise	d	The ASI released a revised schedule that may reduce DHS/IVV concerns. The	6/1
					schedule against which project deliverables can be managed. (2/28/2023 -		draft schedule was under review at the end of this reporting period. The	
					complete) ASI host a weekly meeting with DHS and IVV to review all change		revised schedule has three key deliverables (Requirements, Traceability	An
					to the project schedules (Primary and DDI), (8/31/2023-complete) CLOSED		Matrix (RTM), System Integrity Review Tool (SIRT), and Validated Results of	con
					ASI plan and execute Epic development so that Epic demos can occur earlie		Data Conversion Testing) scheduled from June 7 – 14, which could be a	deli
					in the release schedule and allow time for possible revisions. (12/31/2023		resourcing challenge for DHS. IVV shared the DHS resourcing challenge	sen
					No done) As requested by DHS, add key milestones to the project schedule.		with the ASI on May 31st and the ASI responded immediately that they	Service Se
					such as Sprint and Epic demos, to show key progress towards completion o	r	would address it at the next Schedule Review Meeting on June 5, 2024. IVV	resp
					Epics. (9/29/23 ASI says that they will not do this.) Confirm current		will continue to monitor the project team's ability to meet this schedule and	
					assumption that a delay with the current go-live date will not result in majo	x	for any new or re-introduced risks that could impact the go-live dates.	lool
					implications. (6/29/23) Leverage velocity and burn down charts to adjust		4/30/2024 - Several tasks have been delayed in the project schedule - some	date
					development tasks estimates if needed. Leverage velocity and burn down		(i.e., data conversion) more than 20 days. Additionally, the HANA/BES	revi
					charts to adjust development tasks estimates if needed. (4/30/2023 - ASI		integration (Epic 209), scheduled to enter SIT on April 15, was in	we
					using Jira) Using the available tools, review the current estimates to		development at the end of the month. IV&V is concerned that under-	this
					complete each activity compared to past actual hours (1/31/2023 - new AS		estimated level of effort on tasks in an aggressive schedule could impact go-	
					Not Started) Update as necessary and provide the DHS/ASI Project Manager		live dates 3/31/2024 - The BES Project Schedule that aligns with the Go to	rep
					with reports and data that accurately reflect the DHS/ASI Project Manager		Green plan was published by the ASI during this reporting period. The	still
					along with over/under allocations of staff for the duration of the Project		overlap of Integration Testing (INT) and SIT, and adding functionality into SIT	
anned BES infrastructure is complex	Free Allehood Flord	10/20/2021 0	Annual API Information along to be for the destination of the first sector of the	Material address in the land of the second	(1/31/2023 - new ASI - Not Started) Develop mitigation and contingency + ASI develop a process to closely monitor cloud and other product changes		after it has started may lead to more delays as seen in prior schedules. 6/20/24 - No material update for this reporting period. 5/31/24 - It remains	sch
		10/28/2021 System Design	Current ASI infrastructure plans include a significant number of					
could be difficult to implement and	Risk		sophisticated components that make up a complex cloud infrastructure.		(software updates/new releases), manage changes, and regression test once		unclear how infrastructure complexity will impact DR testing and execution.	
schedule/cost impacts.			Further, the Project Team has yet to finalize components that will make up		updates are applied The project team work to establish strong governance	be in the second s	4/30/24 - No material update in this reporting period. 3/31/24 - During a	Aga
					over the utilization and maintenance of the various system		recent Change Control Board (CCB) meeting the ASI presented DHS with a	refe
			and implement the planned complex environment remain unclear.	and lead to further delays. Complex platforms often present system	tools/components. • ASI allot time in the schedule to conduct proof of		for-cost change request (CR) to the design of the Secure Enclave (the	the
				maintenance and operations challenges as system changes can hold the	concepts to assure infrastructure components work as expected. • ASI		addition of roles). In the CCB, it was clear that DHS and the ASI were not in	sch
				increased potential for system failure (i.e., due to the significant number of	maintain a detailed schedule for DevOps implementation tasks to avoid		agreement regarding the funding of this change request. 2/29/24 - No	is so
				"moving parts") and increase the level of time and effort to resolve	unexpected delays that could delay project milestones and the critical path.		material update in the reporting period. 1/23/24 No material update in	duc
				infrastructure and application-level bugs. Further, some components			the reporting period. IVV continues to monitor this finding. 12/31/23 - No	oft
				remain in an immature state compared to their legacy counterparts. For			material update in the reporting period. IW continues to monitor this	Pilo
				example, the project recently experienced a system failure because Google			finding, 11/30/23 - Some components of the BES system infrastructure	202
				Cloud failed to clearly communicate a change that led to failure in another			have yet to be finalized and tested, it remains unclear how or if the added	101
				component (i.e., Nexus). Google Cloud is generally viewed as a less mature			complexity will impact project schedules and budgets going forward. The	10/
				product offering, compared to their rivals (Amazon Web Services, Microsoft			ASI has reported they are close to finalizing the Secure Enclave	Vic
				Azure). IV&V remains concerned that this could lead to failures at critical			infrastructure to house FTI data. The ASI appears to be making progress on	not
				points in the project (including post-go live production failures) that could			DR plans and designs. 10/30/23 - The ASI continues to have productive	this
				be difficult to resolve and lead to project disruption. If DHS intends to			discussions with DHS during their weekly Architecture calls. The ASI has yet	10/
				eventually reduce M&O outsourcing costs turning over M&O tasks to State			to finalize their plans and technical architecture for conducting Disaster	
				employees, they could face challenges supporting tools they may not be			Recovery (DR). The cloud technology being implemented offers some	
				familiar with in a complex infrastructure environment.			benefit and can simplify some elements of DR. However, it remains unclear	Plea
							if the complex infrastructure (with the multitude of components being	VDU
							employed) will impact their ability to test and perform DR. 9/28/23 - The	find
							employed) will impact their ability to test and perform DK. 9/26/23 - The	100
							ASI has experienced turnover of their Enterprise Architect position; this does	
							not appear to have had a material impact on the overall infrastructure build.	
							The ASI continues to make progress in the build-out of their infrastructure	beir
							and is confident that the automation they've implemented will simplify	Sec
							many maintenance tasks Given that, they remain confident they will be able	
							to meet infrastructure milestones without hindering development. The ASI	
cient configuration management	Fors, Michael Finding -	8/23/2021 Configuration ar	d The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the	Configuration Management is a set of processes and procedures that	OPEN • ASI adhere to plans for configuration management as documented	ASAP 2 2 Low Open	6/20/24 - No material update for this reporting period. 5/31/24 - IVV has	
ead to development confusion and	Risk		Configuration Management Plan, however, it remains unclear if sufficient		in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DH		vet to receive a detailed, comprehensive list of configuration items the ASI	
the effectiveness of defect resolution			progress has been made toward establishing CM processes and governance		ASI validate plans for configuration management with DHS and agree on a		will be tracking, 4/30/24 - IVV has yet to receive a detailed, comprehensive	10/
				 Management that may reduce errors and should provide the project team. 			list of configuration items the ASI will be tracking, 3/31/24 - Responsibility	Vic
				with accurate, dynamic and timely information on some of the configuration			for the Configuration Management Plan (CMP) reverted to the ASI	listi
			requirements or decisions that could impact CM. The project currently	with accurate, dynamic and timely information on some of the configuration items. However, it is critical that DHS/ASI agree to the full list of items that			for the Configuration Management Plan (CMP) reverted to the ASI (previously, the DHS Security Contractor was updating the CMP for related	listi plar
			relies on Github for tracking of some configurations.	are included in the configuration plan along with the details regarding the			security controls). The ASI is resuming this scope of work at a time when its	
				management of the configuration items, reporting and audit features.	configuration management activities and assure defined CM steps and plan		resources are stretched and may lead to CMP and configuration	Vic
					are being followed, are effective, and are achieving DHS objectives for CM.		management quality challenges. 2/29/24 - No material update in this	on t
					7/31/2022		reporting period. 1/23/24 - No material update in the reporting period.	This
							12/31/23 - The project will utilize the DHS contractor currently assisting	imp
							with security activities to update the Configuration Management Plan	wor
							(CMP). The scope of work that the DHS contractor is responsible for is	the
							unclear to IVV. 11/30/23 - The ASI has yet to provide a detailed list of	10/
							configuration items to DHS and IVV. IVV has restated this request to the ASI	
							so that the level of detail is clear. 10/26/23 - The ASI provided broad	N8
							information on the configuration items being tracked but have yet to	list
							provide detailed configuration items for IVV review. The ASI has	wat
							deprioritized some configuration management activities, which it intends to	resp
							perform in preparation for Maintenance and Operation (M and O). 9/28/23	
							- The ASI gained DHS' approval on the items that will be tracked and	of c
							monitored as part of configuration management. IVV requested the list last	
							month and is waiting on the ASI to respond. 8/31/23 - No material update.	whi
							7/31/23 - No material update, 6/30/23 - No material update, 5/31/2023 -	mat
							The ASI continues to make progress with its utilization of the ServiceNow	Sen
							Configuration Management (CM) tool. They have recently performed an	Inci
							initial import of Google Cloud Platform server details into the ServiceNow Configuration Management Database. *** Continued work. Setup in	Cha Mai