

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

P.O. BOX 119, HONOLULU, HAWAI'I 96810-0119 Ph: (808) 586-6000 | Fax: (808) 586-1922 ETS.HAWAII.GOV

February 2, 2024

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

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

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

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

Sincerely,

Douglas Murdock (Neb 2, 2024 11:35 HST)

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)



Hawaii Department of Human Services Systems Modernization Project

Final IV&V Status Report for Reporting Period: December 1 – 31, 2023

Submitted: January 16, 2024



Overview

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- IV&V Findings and Recommendations
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Executive Summary

Executive Summary



During the IV&V reporting period ending 12/31/23, IV&V identified new findings, documented challenges associated with existing findings, and retired findings that no longer represent a risk to the BES Project. Our observations include:

- To prevent development delays from impacting the planned dates for Pilot (scheduled for April 8, 2024) and Go-Live, the BES Project team elected to overlap Integration Testing (INT) and System Integration Testing (SIT). This testing overlap will require close coordination to achieve the desired outcome. IV&V opened a new finding with mitigation recommendations for the project team to consider.
- The IRS raised policy concerns about data sharing with DHS for the Federal Tax Offset Program (TOP) interface. To address those concerns, the BES team is redesigning the TOP interface to reside in the Secure Enclave, which represents a significant change. IV&V opened a new finding with mitigation recommendations for the project team to consider.
- The ASI submitted the BI-20 Release 0.12 BES Test Scenarios, Cases, and Scripts Deliverable as a prerequisite to the start of SIT. However, test development is still underway and the timing of when they will be ready for DHS review/approval is unknown. While this deliverable requires DHS approval before the start of SIT, the Department is evaluating options to move forward otherwise.

These and other risks are challenges to the project team however, DHS and the ASI consistently demonstrate their commitment to adjust and adapt to ensure the Pilot remains on schedule. There are options for each challenge and holistically they are discussed and evaluated by DHS and ASI to determine the best path forward.

| Oct | Nov | Dec | Category | IV&V Observations |
|-----|----------------|----------------|-----------------------|---|
| (M) | $\binom{M}{M}$ | $\binom{M}{M}$ | Project Management | DHS and ASI Project management faces several challenges, including delayed interface agreements and development work, that could impact the project schedule and push out the BES Go-Live date. Work continues on mitigation plans to keep the schedule on track. |

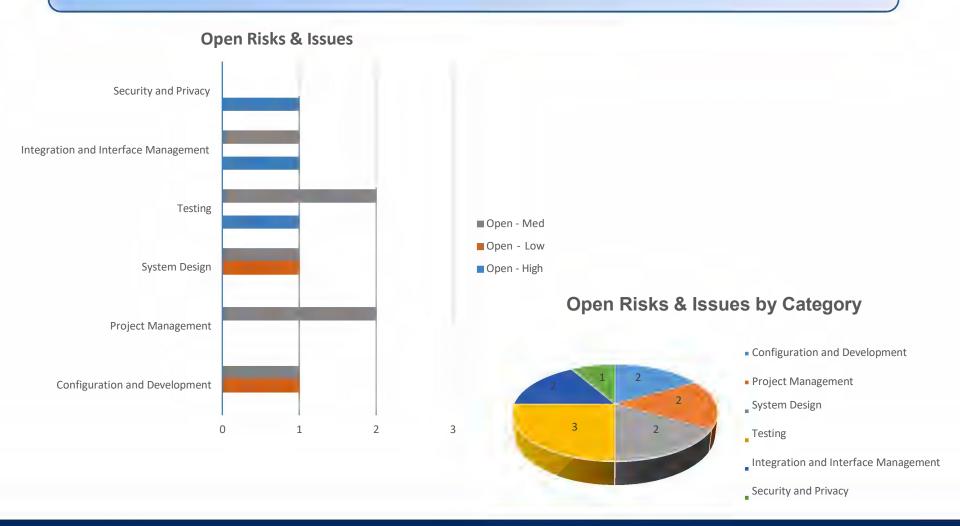
Executive Summary



| Oct | Nov | Dec | Category | IV&V Observations |
|--------------|--------------|--------------|--|--|
| M | M | M | System Design | DHS and IV&V are concerned about the delay in completing the Epic demos. These demos are the final phase of Agile system design that confirms designs align with client expectations and delays to the project may occur if changes are needed. |
| (<u>M</u>) | (<u>M</u>) | (<u>M</u>) | Configuration and Development | With ten Epics for release 0.12 still in development it may be difficult to avoid Final Acceptance Testing (FAT) delays should development issues arise. |
| M | (<u>M</u>) | M | Integration and Interface Management | Security issues with the TOP interface and the complexity of developing a solution that will work for BES and meet federal requirements could delay the BES Pilot. |
| H | E | H | Testing | The aggressive project schedule continues to impact testing, with INT and SIT testing scheduled to execute simultaneously and an incomplete BI-20 deliverable being released for review (which could impact the go/no go decision to enter SIT). |
| M | 1 | Ŧ | Security and Privacy | The BI-13 System Security Plan that was approved by DHS and shared with the Social Security Administration (SSA) included incomplete designs and missing DHS governance documentation, which could require additional review cycles late in the project and result in possible delays. |

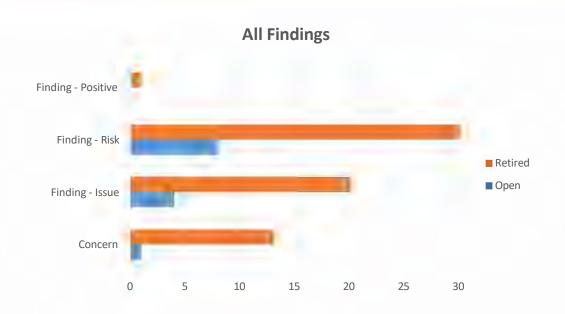


As of the December 2023 reporting period, PCG is tracking 12 open findings (8 risks, 4 issues) and has retired a total of 71 findings. Of the 12 open findings, 3 are High, 7 are Medium, and 2 are Low.





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





Findings Retired During the Reporting Period

| # | Finding | Category |
|----|--|--------------------|
| 29 | Issue – Uncertainty and/or a lack of communication around long-term architecture decisions could impact the project budget, schedule, system design, and planning decisions. The Project communicates infrastructure decisions through weekly infrastructure and security meetings. DHS and the ASI have stated that these and other meetings have been an effective means of communication with the relevant stakeholders. Therefore, IV&V is retiring this finding. | Project Management |
| 84 | The current approach to Final Acceptance Testing (FAT) may not be complete, which increases the likelihood of missed deadlines. IV&V is retiring this finding based on: 1. The project team is conducting weekly FAT planning meetings. 2. DHS has confirmed the FAT testing staff. 3. The ASI provided a Training Plan that addresses updating/maintaining the training courses in the BES Learning Academy (the DHS Learning Management System). | Testing |
| 87 | The departure of the BESSD lead project manager may increase risk to the project due to the bandwidth challenges for the remaining project manager. DHS filled the BES Project Manager position and added an 89-day temporary hire with an individual knowledgeable about BES. Additionally, the DHS Leadership team is highly visible on the Project and provides support to the BES Project Management team. Therefore, IV&V is retiring this finding. | Project Management |



Findings Opened During the Reporting Period

| # | Finding | Category |
|----|--|----------|
| | Risk – The current mitigation approach to complete the development of the remaining R0.12 Epics is condensed and aggressive and may increase the likelihood of schedule delays, quality issues, and a higher volume of testing defects. | |
| | Criticality Rating: Medium | |
| 89 | Observation: Ten of the Epics scheduled for completion before Release 0.12 SIT will not be ready. To avoid SIT delays, the proposed mitigation approach is to begin SIT without the 10 Epics and test them as they are completed. Additionally, Release 0.12 development that was extended two weeks from the scheduled end date has been extended for another ten business days. | Testing |
| | Significance : Overlapping development and testing introduces potential quality issues. Insufficient INT may create gaps in SIT, leading to further quality issues. This may increase the risk of significant delays or introduce defects into the production environment. | |

| Recommendations | | |
|--|-------------|--|
| Develop Contingency Plans if the mitigation plan continues to see slippage affecting INT and SIT. | Not Started | |
| The ASI provides comprehensive INT results and SIT scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution. | Not Started | |
| The ASI release a detailed schedule of events, including development completion, INT start, SIT start for each epic covered in the mitigation plan. | Not Started | |
| The ASI should evaluate if Epics entering SIT late might require retesting functionality that had already been tested | Not Stated | |



Findings Opened During the Reporting Period

| # | Finding | Category |
|----|---|-------------------------|
| 90 | Risk – Changes required to incorporate the Federal Tax Offset Program (TOP) interface within the Secure Enclave may not occur before the BES Pilot. | |
| | Criticality Rating: Medium | Integration and |
| | Observation: The IRS clarified policy that requires TOP data to be migrated to and accessed from the secure enclave per IRS Publication 1075 requirements. | Interface Management |
| | Significance: Adherence to federal requirements necessitates a new solution for the storage and retrieval of TOP data. The redesign may impact the go-live delivery. | |

| Recommendations | | |
|---|-------------|--|
| Complete the interface functional redesign to utilize the Secure Enclave. | Not Started | |
| Modify existing TOP test plans to validate the proper handling of FTI information and integration to the balance of the BES system. | Not Started | |
| Work with FNS and IRS regarding the timeline for having TOP data and the tax offset functionality available to BES System users. | Not Started | |
| Once the new design is complete, estimate the Level of Effort and tasks/activities required through implementation to provide the Project Management Team with options as Pilot planning/activities are underway. | Not Started | |



Preliminary Concerns Investigated During the Reporting Period

| # | Finding | Category |
|----|---|------------|
| 91 | Preliminary Concern – Transitioning KOLEA M&O activities to a new vendor may cause delays for the BES go-live and/or the delivery of critical features. | |
| | Observation: A new vendor is assuming M&O responsibilities for the KOLEA integrated eligibility application in the Spring (March-May) of 2024 while the BES FAT is scheduled from February – March 2024 and the BES Pilot is scheduled for April 2024. | Pilot Test |
| | Significance: IV&V is concerned that this transition could possibly impact BES testing and implementation whilst exacerbating BES Project Risk # 52 regarding the readiness of KOLEA shared interfaces for BES testing and implementation. | Deployment |
| | IV&V plans to discuss this finding with DHS and the ASI in January to determine the potential impact on the project and actions or mitigation plans being developed to address this situation. | |



Project Management

Key Findings

Issue – A BES Project schedule based on inaccurate estimations diminishes effective planning and resource management, which could result in late deliverables, cost increases, and a late go-live.

74 With 10 epics for release 0.12 in development, another development and integration testing sprint was added to the schedule. IV&V remains concerned that under-estimated effort and resulting elongation of schedule could impact implementation milestones.

Monitor, evaluate and revise scheduling estimates for accuracy. ASI provide details on how Velocity measures were used to develop estimations for development effort in new version of DDI schedule



Project Management

| # | Key Findings | Criticality Rating |
|----|--|-----------------------|
| | Risk – Implementing a Core Solution for go-live carries inherent risks that may impact overall project success and reduce user adoption. | |
| 88 | Delays in some planned activities (e.g., epic demos, interface designs) and the development of the secure enclave are causing milestones to be missed. IV&V remains concerned about potential quality impacts due to the need to accelerate efforts to compensate for missed milestones. | М |

| Recommendations | Progress |
|---|---------------|
| Increase OCM efforts to effectively manage user, general public, and legislative expectations for BES version at go-live. | In process |
| Prioritize feedback from users and FNS to ensure the solution meets their core needs and so users are clear on what features they are, and are not, getting. | ar In process |
| Actively monitor, assess, and address potential challenges throughout the development process including code quality, cutting scope to meet development milestones, insufficient user validation of demonstrated functionality, and fully defined workarounds to accommodate for the missing functionality. | In process |
| DHS carefully assesses whether the advantages of a timely release outweigh the advantages of going live with a system that provides more comprehensive functionality, requires fewer workarounds, and increases user satisfaction. | |



Integration and Interface Management

| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| 63 | Issue – The lack of early planning and coordination with interface partners may result in schedule delays. Due to the number of open issues that could potentially impact interface development (e.g., incomplete agreements, unavailable test regions, and interface/batch testing schedules yet to be defined) IV&V has raised the criticality rating to High. | • |

| Recommendations | Progress |
|---|-------------|
| DHS to complete all MOAs and obtain approval. | In process |
| Confirm testing dates with interface partners in writing. | In process |
| Complete early proof of concept interfaces to avoid unexpected delays due to external organization miscommunications or their own internal delays in assisting the BES project. | Not started |

Configuration and Development

| # | Key Findings | Criticality Rating |
|----|--|-----------------------|
| | Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution. | |
| 70 | The project will utilize the DHS contractor currently assisting with security activities to update the Configuration Management Plan (CMP). The scope of work that the DHS contractor is responsible for is unclear to IV&V. | |

| 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 |
| DH\$ and ASI work to clarify/solidify plans for the potential use of configuration management tools and DHS work to fund and procure a CM tool, as required, to avoid any negative impacts to the project. | In process |





Configuration and Development

| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| 80 | Risk – Development delays could negatively impact the project schedule and delay go-live. The ASI reported development delays related to 10 epics but has also produced a mitigation plan to manage these delays and stay on track for go-live. IV&V remains concerned that any additional delays might push out the project schedule and implementation milestones. | M |

| Recommendations | 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. | Not started |



System Design

| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| 73 | Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts. No material update in the reporting period. IV&V continues to monitor this finding. | |

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



System Design

| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| 1 | Issue – Limited collaboration between the ASI and DHS in the design process could lead to BES usability issues and functionality gaps in the application and not meeting critical business needs for DHS and State clients. | |
| 86 | DHS opened a new high-severity project risk, which then escalated to an issue, on December 4, 2023, since the sprint and epic demos will not be completed by the end of the Release 0.12 DDI phase. IV&V shares this concern, as issues discovered during the demos will require additional design, development, and testing for the impacted epic, potentially pushing out the schedule. | M |

| Recommendations | Progress |
|--|----------------|
| Include a wide enough audience in all design and demo sessions to validate FNS and DHS functional and technical requirements and system usability. | In Process |
| Perform Sprint and Epic demos in alignment with development sprint completion (demo functionality/requirements as they are developed) to get early feedback on work products. | Not Started |
| Perform comprehensive (demo all requirements) review during Epic demos, not just the items that were added/updated, allowing DHS to provide early feedback on possible issues/gaps that might not be apparent when focusing on specific functionality. | In Process |
| ASI and DHS re-evaluate the effectiveness of the recorded Sprint review process to ensure that designs align with DHS expectations. | In Process |



Testing

| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| Ī | Risk - The Americans With Disabilities Act (ADA) Section 508 compliance tool has not been installed timely for the Project, which may cause significant rework. | |
| 67 | ADA testing continued through December. The ASI plans to review 60 User Journeys to complete ADA testing. Six User Journeys have been reviewed using Usablenet and 76 defects were identified, with 64 defects resolved by the end of December. | М |

| Recommendations | |
|---|-------------|
| The ADA tool meets contractual and project requirements. | In process |
| The ASI communicates a plan for ADA test execution. | In process |
| The ASI communicates how the tool will be used to report compliance and non-compliance and how non-compliance will be addressed/corrected | In process |
| The ASI provides DHS/IV&V reports from the ADA tool execution and explain how to interpret the results. | In process |
| ASI/Project monitor their new ADA processes to determine if effective and can address all ADA defects prior to SIT. | Not Started |



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. | 4 |
| 83 | The ASI delivered the BI-20 (Release 0.12 BES Test Scenarios, Cases, and Scripts) to DHS for review and approval. However, 28 Epics did not include SIT test scripts, which the ASI proposed to provide as continuous updates when the data becomes available. This approach poses a risk to the Project as this deliverable informs DHS' go/no-go decision to start SIT testing. | |

| Recommendations | |
|---|------------|
| Monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested. | In process |
| The project team reviews the SIT Entry and Exit criteria and revises them as needed to ensure UAT/FAT begins with the best system possible. | In process |
| ASI should determine the root cause of the failure to identify simple defects in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering UAT/FAT | In process |



Security and Privacy

| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| | Risk – The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan (SSP). | |
| 82 | The ASI received DHS approval for the BI-13 Security Plan on December 18. This deliverable is dependent upon draft DHS policies and planned security controls that may change based on technical designs and documentation being finalized. | н |
| | The BI-13 was provided to the SSA with supporting material to initiate the SSA interface certification process. | |

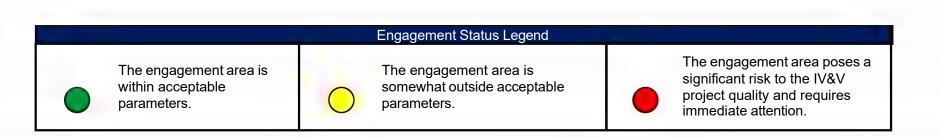
| Recommendations | Progress |
|---|------------|
| Determine when the infrastructure design baseline will be completed. | In process |
| Determine when documentation will be created, updated, and available for the SSP authors. | In process |
| Collaborate and communicate with SSP authors about when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



IV&V Engagement Status



| IV&V Engagement Area | Oct | Nov | Dec | Comments |
|----------------------|-----|-----|-----|--|
| IV&V Budget | | | | |
| IV&V Schedule | • | | | |
| IV&V Deliverables | 0 | | | PCG submitted the final November IV&V Monthly Status Report. |
| IV&V Staffing | | | | |
| IV&V Scope | | | | |



IV&V Activities



- IV&V activities in the December reporting period:
 - Completed November 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 January reporting period:
 - Ongoing Observe BES Design and Development sessions as scheduled
 - Ongoing Observe Bi-Weekly Project Status meetings
 - Ongoing Observe Weekly Architecture meetings
 - Ongoing Observe Weekly Security meetings
 - Ongoing Monthly IV&V findings meetings with the ASI
 - Ongoing Monthly IV&V Draft Report Review with DHS, ETS and ASI
 - Ongoing Participate in Bi-Weekly DHS and IV&V Touch Base meetings
 - Ongoing Review BES artifacts and deliverables

Deliverables Reviewed



| Deliverable Name | Deliverable Date | Version |
|--|---|---------|
| BI-5 Project Schedule - BES 2023 Primary | 12/05/2023, 12/12/2023, 12/19/2023, 12/26/2023 | N/A |
| BI-5 Project Schedule - BES 2023 DDI | 12/05/2023, 12/12/2023, 12/19/2023, 12/26/2023 | N/A |
| BI-10 | 11/16/2023 | N/A |
| BI-13 | 11/06/2023 | N/A |
| BI-20 | 12/27/2023 | N/A |
| BM-09 | 12/29/2023 | N/A |
| BI-26 | 12/14/2023 | N/A |

Additional Inputs – Artifacts



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

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. IV&V Team Meeting 12/4/2023, 12/7/2023, 12/11/2023, 12/14/2023, 12/18/2023, 12/21/2023, 12/28/2023
- 2. IV&V September 2023 Pre-Draft MSR Findings Review 12/5/2023
- 3. HI DHS BES September Draft IV&V Report Review 12/15/2023
- 4. Bi-Weekly DHS and IV&V Touch Base 12/12/2023, 12/26/2023
- 5. Weekly BES Infrastructure meeting 12/1/2023, 12/8/2023, 12/15/2023, 12/22/2023, 12/29/2023
- 6. DHS/IV&V Check-in 12/7/2023, 12/21/2023
- 7. Weekly Client BES 2023 Project Status Meeting 12/6/2023, 12/13/2023, 12/20/2023
- 8. Security Touchpoint 12/6/2023, 12/13/2023, 12/20/2023, 12/27/2023
- 9. Weekly Data Conversion Workgroup 12/14/2023, 12/21/2023, 12/28/2023
- 10. PMO End of Day Huddle 12/5/2023, 12/7/2023, 12/12/2023, 12/14/2023, 12/19/2023, 12/21/2023
- 11. (External) Weekly Interfaces Touchpoint 12/4/2023, 12/11/2023, 12/18/2023
- 12. (External) UI Standards Monthly Review 12/6/2023
- 13. (External) Readiness Working Group Meeting 12/5/2023, 12/12/2023, 12/19/2023, 12/26/2023
- 14. (External) Bi-Weekly Client BES 2023 Schedule Review/Status 12/6/2023, 12/20/2023
- 15. (External) BES System Security Plan Controls 12/12/2023
- 16. (External) Bi-weekly BES CCB Meeting 12/13/2023
- 17. (External Epic Demo) Epic 213 Case Location 12/1/2023
- 18. (External) BES: FNS Connect 12/7/2023, 12/14/2023, 12/21/2023
- 19. (External) BI-13 SSP Project Deliverable Response 12/7/2023
- 20. (External Epic Demo) Epic 216 Correspondence, Epic 246 Correspondence, & Epic 231 Accounting 12/8/2023
- 21. (External Epic Demo) Epic 202 Address Standardization, Epic 204 Single Sign on and Session Manager 12/15/2023
- 22. (External Epic Demo) Epic 214 Case Summary & Epic 253 Account Setup & Maintenance 12/21/2023





Appendix A – IV&V Criticality Ratings

| Criticality Rating | Definition |
|-----------------------|--|
| н | A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately. |
| М | A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be evaluated and implemented as soon as feasible. |
| | A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible. |

Appendix B – Findings Log



The complete Findings Log for the BES Project is provided in a separate file.

Appendix C – Acronyms and Glossary



| Acronym | Definition |
|---------|---|
| APD | Advance Planning Document |
| ASI | Application System Integrator |
| BES | Benefits Eligibility Solution |
| CCWIS | Comprehensive Child Welfare Information System |
| CM | Configuration Management |
| CMMI | Capability Maturity Model Integration |
| CMS | Center for Medicare and Medicaid Services |
| CR | Change Request |
| DDI | Design, Development and Implementation |
| DED | Deliverable Expectation Document |
| DHS | Hawaii Department of Human Services |
| DLV | Deliverable |
| E&E | Eligibility and Enrollment |
| EA | Enterprise Architecture |
| ECM | Enterprise Content Management (FileNet and DataCap) |
| ESI | Enterprise System Integrator (Platform Vendor) |
| ETS | State of Hawaii Office of Enterprise Technology Services |
| FIPS | Federal Information Processing Standard |
| HIPAA | Health Information Portability and Accountability Act of 1996 |
| IDM | Identity and Access Management (from KOLEA to State Hub) |
| IEEE | Institute of Electrical and Electronics Engineers |
| IES | Integrated Eligibility Solution |
| ITIL | Information Technology Infrastructure Library |
| | |



Appendix C – Acronyms and Glossary

| Acronym | Definition |
|---------|---|
| IV&V | Independent Verification and Validation |
| KOLEA | Kauhale On-Line Eligibility Assistance |
| M&O | Maintenance & Operations |
| MEELC | Medicaid Eligibility and Enrollment Life Cycle |
| MEET | Medicaid Eligibility and Enrollment Toolkit |
| MOU | Memorandum of Understanding |
| MQD | Hawaii Department of Human Services MedQuest Division |
| NIST | National Institute of Standards and Technology |
| OE | Operating Environment |
| OIT | Department of Human Services Office of Information Technology |
| PIP | Performance/Process Improvement Plan |
| PMBOK® | Project Management Body of Knowledge |
| PMI | Project Management Institute |
| PMO | Project/Program Management Office |
| PMP | Project Management Plan |
| QA | Quality Assurance |
| QM | Quality Management |
| RFP | Request for Proposal |
| ROM | Rough Order of Magnitude |
| RMP | Requirements Management Plan |
| RTM | Requirements Traceability Matrix |
| SEI | Software Engineering Institute |
| SLA | Service-Level Agreement |
| SME | Subject Matter Expert |





| Acronym | Definition |
|---------|---|
| SOA | Service Oriented Architecture |
| SOW | Statement of Work, Scope of Work |
| VVP | Software Verification and Validation Plan |
| XLC | Expedited Life Cycle |

Appendix D – Background Information



Systems Modernization Project

The DHS Enterprise Program Roadmap includes contracting with three separate vendors with the following high-level scope:

- ESI or Platform Vendor responsible for the shared technology and services required for multiple Application vendors to implement and support functionality that leverages the DHS Enterprise Platform.
- ASI or ASI Vendor responsible for the DDI of the Benefits Eligibility Solution (BES Project) enhancing the currently implemented Medicaid E&E Solution (KOLEA) and providing support for the combined Solutions.
- CCWIS Vendor responsible for the DDI of the CCWIS Solution to meet the needs of child welfare services and adult protective services (CCWIS Project) and providing support for the Solution.

Systems Modernization IV&V Project

IV&V performs objective assessments of the design, development/configuration and implementation (DDI) of DHS' System Modernization Projects. DHS has identified three high-risk areas where IV&V services are required:

- Transition of M&O from DHS' incumbent vendor to the ESI and ASI vendors
- BES DDI
- CCWIS DDI

On the BES DDI Project, IV&V is responsible for:

- Evaluating efforts performed by the Project (processes, methods, activities) for consistency with federal requirements and industry best practices and standards
- Reviewing or validating the work effort performed and deliverables produced by the ASI vendor as well as that of DHS to ensure alignment with project requirements
- Anticipating project risks, monitoring project issues and risks, and recommending potential risk mitigation strategies
 and issue resolutions throughout the Project's life cycle
- Developing and providing independent project oversight reports to DHS, ASI vendors, State of Hawaii Office of Enterprise Technology Services (ETS) and DHS' Federal partners

Appendix D – Background Information



What is Independent Verification and Validation (IV&V)?

- Oversight by an independent third party that assesses the Project against industry standards to provide an unbiased view to stakeholders
- The goal of IV&V is to help the State get the solution they want based on requirements and have it built according to best practices
- IV&V helps improve design visibility and traceability and identifies (potential) problems early
- IV&V objectively identifies risks and communicates to project leadership for risk management

PCG's Eclipse IV&V® Technical Assessment Methodology

- Consists of a 4-part process made up of the following areas:
 - 1. **Discovery** Discovery consists of reviewing documentation, work products and deliverables, interviewing project team members, and determining applicable standards, best practices and tools.
 - 2. Research and Analysis Research and analysis is conducted in order to form an objective opinion.
 - 3. Clarification Clarification from project team members is sought to ensure agreement and concurrence of facts between the State, the Vendor, and PCG.
 - **4. Delivery of Findings** Findings, observations, and risk assessments are documented in this monthly report and the accompanying Findings and Recommendations log. These documents are then shared with project leadership on both the State and Vendor side for them to consider and take appropriate action on.

IV&V Assessment Categories for the BES Project

- Project Management
- Requirements Analysis & Management
- · System Design
- Configuration and Development
- Integration and Interface Management

- Security and Privacy
- Testing
- · OCM and Knowledge Transfer
- Pilot Test Deployment
- Deployment



Solutions that Motter

| | Finding | Identified | | | | | | Analyst | Finding | | |
|---|--------------------------------|---|---|---|--|-----------------|----------------|----------------|---------|--|---|
| ID Title Ri | eporter Type | Date Category | Observation | Significance | Recommendation | Event Horizon I | Impact Probabi | ility Priority | Status | Status Update Ollent Comments | Vendor Comments |
| 91 Transitioning KOLEA M&O activities to a M new vendor may cause delays for the BES go live and/or the delivery of critical features. | Iolina, Brad Concern | 12/29/2023 Pilot Test Deployment | A new vendor is assuming M&O responsibilities for the KOLEA integrated eligibility application in the Spring (March-May) of 2024 while the BES FAT is scheduled from February – March 2024 and the BES Pilot is scheduled for | readiness of KOLEA shared interfaces for BES testing and implementation. | | March 2024 | 3 | 3 Med | Open | | |
| | | | April 2024. | IVV plans to discuss this finding with DHS and the ASI in January to determine the potential impact on the project and actions or mitigation plans being developed to address this situation. | | | | | | | |
| 90 Changes required to incorporate the Federal Re Tax Offset Program (TOP) interface within Ma the Secure Enclave may not occur before the BES Pilot. | ynolds, Finding - rk Risk | 12/21/2023 Integration and Interface Management | The IRS clarifled policy that requires TOP data to be migrated to and accessed from the secure enclave per IRS Publication 1075 requirements. | Adherence to federal requirements necessitates a new solution for the storage and retrieval of TOP data. The redesign may impact the go-live delivery. | OPEN - Complete the Interface functional redesign to utilize the Secure Enclave Modify existing TOP text plans to validate the proper handling of FTI information and integration to the balance of the BES system Work with FNS and IRS regarding the timeline for having TOP data and the tax | now | 3 | 4 Med | Open | | |
| | | | | | offset functionality available to BES System users Once the new design is complete, estimate the Level of Effort and tasks/activities required through implementation to provide the Project Management Team with options as Pilot planning/activities are underway. | | | | | | |
| 89 The current mitigation approach to To complete development of the remaining R0.12 epics is condensed and aggressive and may increase the likelihood of schedule | orring, Erik Finding - Risk | 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 proposed mitigation approach is to begin SIT without the 10 Epics and test them as they are completed. Additionally, Release 0.12 development that was extended two weeks from the schedules | Insufficient INT may create gaps in SIT, leading to further quality issues. This may increase the risk of significant delays or introduce defects into the | Develop Contingency Plans if the mitigation plan continues to see slippage affecting INT and SIT The ASI provides comprehensive INT results and SIT scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution The ASI release a detailed schedule of events, including | 2 Now | 3 | 3 Med | Open | | |
| delays, quality issues, and higher volume of testing defects. | | | end date has been extended for another ten business days. | a production environment. | development of the state of the | e | | | | | |
| | ors, Michael Finding - | 11/30/2023 Project | | Going live with a limited version of a software product entails inherent risks, | | Now | 3 | 3 Med | Open | 12/31/23 - Delays in some planned activities (e.g., epic demos, interface | |
| carries inherent risks that may impact overall project success and reduce user adoption. | Risk | Management | stated timeline. This version is generally referred to in Agile software development as a Minimum Viable Product (MVP), which is a simplified version of a product that 1) offers functionality that meets the core needs of | limited user adoption, user dissatisfaction, and negative publicity. | legislative expectations for the Core Solution approach. • Prioritize feedbac from users and FNS to ensure the Core Solution meets their core needs and so users are clear on what features they are, and are not, getting in the | k | | | | designs) and the development of the secure enclave are causing milestones to be missed. NWX remains concerned about potential quality impacts due to the need to accelerate efforts to compensate for missed milestones. | 12/15/2023 - Above already addressed b DHS/Joe |
| | | | users, 2) can accelerate the timeline for go-live, and 3) allows the project to get real-world feedback from users to refine future product development. | limited functionality. A compressed timeline may compromise the quality of designs, user interface sophistication, and lead to an uptick in software bugs | released product. • Actively monitor, assess, and address potential challenges throughout the core solution development process including | | | | | Delays in some planned activities (e.g., epic demos, interface designs) and the development of the secure enclave is causing milestones to be missed. | Campos.Ensure recommendations |
| | | | | and suboptimal code. Further, this approach may expose the project to regulatory compliance risks, such as last-minute objections from regulatory bodies like FNS, which could find certain system elements non-compliant | code quality, cutting scope to meet development milestones, insufficient user validation of demonstrated functionality, and fully defined workarounds to accommodate for the missing functionality. • DHS carefully | v | | | | IVV remains concerned about potential quality impacts due to the need to accelerate efforts to compensate for missed milestones. | reflect "In Progress "In Process". |
| | | | | with their standards and delay the go-live date. Misalignment between stakeholder expectations and the Core Solution may lead to dissatisfaction or a lack of support for the project and could negatively impact future | assess whether the advantages of a timely release outweigh the advantages of going live with a system that provides more comprehensive functionality, requires fewer workarounds, and increases user satisfaction. | | | | | | |
| | | | | project funding requests. Implementing a limited Core Solution typically requires the customer to implement multiple workarounds until automates features can be built into the system. Users could become impatient if thes features are further delayed when bug fixes and other features take | i e | | | | | | |
| | | | | precedence. Others may lose confidence that the features or system improvements will ever be implemented. Going live with a solution that is | | | | | | | |
| | | | | missing functionality that stakeholders were expecting typically requires an increase in OCM efforts both by the ASI and DHS staff to temper stakeholders' reactions to a system with limited functionality. | 1 | | | | | | |
| 86 Limited collaboration between the ASI and Mi DHS in the design process could lead to BES usability issues and functionality gaps in the | olina, Brad Finding - Issue | 8/1/2023 System Design | During the UAT process for release 11, there has been a high level of concerns raised by the DHS testers regarding the usability of the BES system, challenges with the user interface, missing functionality, and basic screen | the BES solution, with the expectation that the new system will at minimum | | Now | 4 | 3 Med | Open | 12/31/2023 - DHS Opened a new high-severity project risk, which then 10/11/2023 Jessica - Our SMEs are providing their feedback. This is one o escalated to an issue, on December 4, 2023, since the sprint and epic demors the terms that I clarified with NRW, that there are feedback given, no will not be completed by the end of the Release DL OD Playse. INV shares feedback means design is ok. I rec'd a mean back from Def - that NRW | of 10/31/2023 - |
| applications and not meeting critical business needs for DHS and State clients. | | | layout issues that would not be expected in a modern application. Based on defect reporting from the UAT process, a large majority of the defects are | provide additional capabilities, greatly enhanced user interface, and overall improved usability from current systems. Should the solution fall short of | completion (demo functionality/requirements as they are developed) to get early feedback on work products Perform comprehensive (demo all | | | | | this concern, as issues discovered during the demos will require additional wants to meet with our reviewer to validate this. design, development, and testing for the impacted epic, potentially pushing | Vic - Conversations with BES PMO about |
| | | | related to "design errors". Although the Release 11 UAT cycle was testing a partially build system, a significant amount of design defects was attributable to functionality developed for Release 11. | expectations, there may be challenges in DHS staff adoption; lack of confidence in the solution providing the accurate information needed to provide benefits to HI citizens: reduction in ability for DHS to provide the | requirements) review during Epic demos, not just the items that were added/updated, allowing DHS to provide early feedback on possible issues/gaps that might not be apparent when focusing on specific | | | | | out the schedule. 11/30/2023 - As of the end of November, the ASI has nine Sprint demos to execute and all 28 Epic demos. Depending on the outcome, this could cause the ASI to extend development while texture is occurring or | live demos. Will kee as recorded demos, but we addressed |
| | | | | same level of needed services to clients, resulting in bad publicity for DHS and the state. | functionality ASI and DHS re-evaluate the effectiveness of the recorded Sprint review process to ensure that designs align with DHS expectations. | | | | | defer the functionality to post-Pilot, creating additional unplanned work for DHS. 10/31/2023 - NV notes positive progress this month in that the DHS | JF - open comments Vic - after demo is |
| | | | | | | | | | | SMEs are providing more feedback to the ASI on the BES design. The DHS PM has requested Sprint demo process updates to ensure that DHS staff who provided feedback are aware of the resolution of their comments. The | complete, feedback and acknowledgement. |
| | | | | | | | | | | ASI has also noted gaps in communication (design misunderstandings) between the ASI Business Analysts and DHS SMEs. DHS SMEs have | Vic - for the next |
| | | | | | | | | | | suggested that communications would be clearer if they were included in live demos. WaY respectfully requests that DHS and the ASI re-evaluate the Sorist Demo process as part of the overall resultation of communication. | reporting period. We want to keep the feedback to the SME |
| | | | | | | | | | | 9/31/2023 - The DHS PIMO reported that DHS SMEs have provided minimal feedback to the ASI on the four recorded Sprint demos this month. This | Policy and Functiona SMEs. |
| | | | | | | | | | | supports IVV's concern that the new process will reduce collaboration to confirm that designs are in alignment with DHS expectations. IVV added a | We are getting off-th way comments. |
| | | | | | | | | | | recommendation that the ASI and DMS re-evaluate the effectiveness of this new process. 8/31/2023 - The ASI will no longer conduct win-person Sprint Demos with DHS approval. Instead, recorded sessions will be provided to | Nicole is finding comments from staff that were not involver |
| | | | | | | | | | | DHS with time to review. The amount of time for DHS to review the demos and the feedback process back to the ASI is undetermined. This decision to | in detail.10/11/2023 |
| 83 Gaps in test coverage and slower-than- To | orring, Erik Finding - | 6/2/2023 Testing | After examining the Project's R11 QA Dashboards, R11 Traceability | Identifying defects early is vital for effective testing, as it is more efficient | OPEN The ASI should determine the root cause of the failure to identify | UAT | 4 | 4 High | Open | record Sprint demos without any DHS participation could limit rather than 12/21/2023 - The ASI delivered the BI-20 (Release 0.12 BES Test Scenarios, | Please reference |
| expected progress in testing may result in schedule delays if subsequent test phases | Issue | | Dashboards, and Test Repository, gaps in testing coverage may exist and the progress of testing might be lagging. 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 | simple defects in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering UAT/FAT. | | | | | Cases, and Scripts) to DHS for review and approval. However, 28 Epics dd not include SIT test scripts, which the ASI proposed to provide as continuous | 12/15/2023 - The SIT |
| uncover a higher volume of defects and user feedbackthan initially anticipated. | | | that not all epics and use cases in R11 have associated test cases or are testing the correct use cases. In terms of progress, some test cases remain unexecuted, and not all defects have been resolved as the project. | | | 0 | | | | updates when the data becomes available. This approach poses a risk to the Project as this deliverable informs DHS' gojnon go decision to start SIT testine. 11/30/2023 - Durine November the ASI continued to create and | that stared on 12/4 i internal to eWorldES and not the official |
| | | | unexecuted, and not all detects have been resolved as the project 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. | than-anticipated progress throughout the project lifecycle increases the risi of encountering significant delays, extensions, or the introduction of defects into the production environment during the final testing stage, known as | exit criteria and revises them as needed to ensure UAI/FAI begins with the best system possible. | | | | | testing: 11/30/2013 - During rovember, the Ast Commune to create and update the SIT test cases. As reported last month, until this is completed DHs cannot evaluate the test cases for full coverage of BES functionality and | start in January. The SIT that started is |
| | | | | Final Acceptance Testing (FAT). | | | | | | provide proper sign-off to enter SIT. While these concerns are still present, the peer review process implemented by the ASI has resulted in improved | eWorldES internal testing to ensure |
| | | | | | | | | | | quality and completeness of the test cases. There is additional concern related to the entry criteria for Release 12 SIT. SIT test cases, as part of | already delivered functionality is |
| | | | | | | | | | | Billi20, are scheduled for completion on 12/18 but the schedule reflects a 12/4 start date for ST. DHS is reviewing STI scripts as they are written, but the full mannitude of STI test scripts will be unclear until the delivery of Bi- | working appropriately 10/31/2023 - Vic - Fo R12. DHS will be able |
| | | | | | | | | | | 20 on 12/18. Scope for SIT includes retests of Release 0.11 functionality and defect corrections which is part of regression testing. This should be clearly | to evaluate SIT test scripts in Jira. |
| | | | | | | | | | | defined and specified to avoid improper entry to SIT before Release 12 development is complete. A SIT Go/No-Go decision meeting on 12/29/2023 | FAT planning meetin when Trisha is back. |
| | | | | | | | | | | was added to the BES Schedule. If this is the formal start to SIT, testing one before this SIT period would need to be rerun. 10/31/2023 - The ASI continues to undate the System Interation Testing ISITI process and test | SIT entrance criteria well in these meeting |
| | | | | | | | | | | continues to update the System Integration Texting (STI) process and test cases. Until this is completed by the ASI, DHS cannot verify that the STI test cases are comprehensive and fully test all BES functionality (including | Vic - overlap of INT and SIT. Testing Will be testing |
| | | | | | | | | | | integrations, interfaces, and converted data). 9/31/2023 - Gaps (business | everything that was |
| | | | | | | | | | | requirements/functionality that may not have been tested sufficiently) in the Unit, integration (INT), and System Integration Testing (SIT) phases continue | previously done in prior releases. |

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| | Date Category | Observation | Significance | Recommendation | Event Horizon Impact | | Status | Status Update | Client Comments | Vend |
|--|--------------------------|--|--|--|-----------------------|----------|--------|--|-----------------|--|
| lack of technical documentation may Heath, Dustin Finding - | 4/27/2023 Security and | In April, the ASI/DHS system security plan (SSP) authors began writing | Once the system architecture and design have been completed, the SSP | OPEN | Prior to the start of | 4 4 High | Open | 12/21/2023 - JF - The ASI received DHS approval for the BI-13 SSP on | | 1/12 |
| t to incorrect implementation statements Risk delay the System Security Plan | Privacy | implementation statements. Currently, the technical documentation | authors may need to edit or rewrite implementation statements. A full draft of the SSP is scheduled to be published August 15th , 2023, and the final SSP | Determine when the infrastructure design baseline will be completed. Determine when documentation will be consted, undated, and available for. | the third-party | | | December XX. This deliverable is dependent upon draft DHS Policys and planned security controls that may change based on technical designs and | | Progr "In pr |
| any ore system security run | | 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 | the SSP authors. | and miles. | | | documentation being finalized. The BI-13 was provided to SSA with | | Rolla |
| | | decisions on what tools support the SSP controls are still being decided on. Implementation statements are currently being written from the perspective | SSP is a large technical document with hundreds of controls and control | - Collaborate and communicate with SSP authors about when reliable and | | | | supporting material to begin the SSA interface certification process. | | leve |
| | | of how the system should be designed from the SSP author's perspective | enhancements, and each one requires an implementation statement of how the control or enhancement has been met. | correct documentation will be available. | | | | 11/30/2023 - During November, the ASI and DHS Security SMFs focused on | 1 | cont |
| | | instead of how the system is actually designed. The SSP authors need to | the control or enhancement has been met. | Perform a full review of all SSP controls for content and accuracy that have | 1 | | | the design of the secure enclave. The Security SMEs have considered the | | with |
| | | know and use documentation such as System Architecture and Design, | | been written as drafts prior to the start of the third-party assessment and | | | | "assured workload" service from Google for applying security controls for | | feedi |
| | | network topology, dataflow, ports and protocols, tools used for logging, etc. | | submission of the SSP package to federal regulators. This will allow the SSF authors to update controls with changes from Design through | ? | | | the secure enclave. IV&V is concerned about whether the entire system will be built and documented in time for a third-party security assessment to | II . | week (prio |
| | | | | Implementation | | | | occur in early 2024. Considering the level of effort outstanding and time | | to SS |
| | | | | ingrenients. | | | | remaining before Pilot, IV&V is raising the Criticality Rating to "High. | | imple |
| | | | | | | | | | | for e |
| | | | | | | | | Security SMEs have focused on the design of the secure enclave (to store | | upo |
| | | | | | | | | federal tax information and other sensitive data). A significant amount of work remains for both the System Security Plan and the development of | | cur 12/ |
| | | | | | | | | work remains for both the System Security Plan and the development of | | 12/ |
| | | | | | | | | required artifacts for the secure enclave that are planned to be complete by | Y | sho |
| | | | | | | | | the end of November 2023. And much of this work requires a logical | | cor |
| | | | | | | | | approach in that certain activities must be completed prior to the start of follow-on activities. • The secure enclave is in the design phase. • The | | co wh |
| | | | | | | | | follow-on activities. • The secure enclave is in the design phase. • The Security SMEs are writing over twenty (20) policies and procedures that will | | val |
| | | | | | | | | be artifacts to the System Security Plan (SSP), planned to be completed by | | CC |
| | | | | | | | | the end of November 2023. • There are over twelve (12) additional | | cc |
| | | | | | | | | documents, including documented plans to support the SSP and required | | pa |
| | | | | | | | | submissions to federal regulators, most of these documents are planned to | n . | - |
| | | | | | | | | be completed by the end of November 2023. The ESI and ASI have stated | i | As |
| | | | | | | | | they are confident the work can be completed on-time. 9/28/2023 - At | | up |
| | | | | | | | | the beginning of September, the DHS Security SME completed draft | | be |
| ment delays could negatively impact Fors, Michael Finding | | ASI had previously reported development activities have been slowed as | If the ASI is unable to achieve a velocity that enables them to meet planned | | Immediate | 3 3 Med | Open | 12/31/23 - The ASI reported development delays related to 10 epics but has | | |
| ect schedule and delay go-live. Risk | Development | they have been unable to achieve and/or maintain their expected | milestones, schedule delays may lead to a delayed system go-live date. | (potentially via the weekly DDI status meeting) with an accurate velocity | | | | also produced a mitigation plan to manage these delays and stay on track | | 10 |
| | | development velocity. Previously, the development team was challenged with accurately estimating development task level of effort (i.e., story | Failure to achieve a level of accuracy in estimating development tasks could lead to a project schedule that is flawed and unrealistic. Previously, DHS | (e.g., story points per day/week/month) and assure that the current velocity is accurately and consistently reflected in the project schedule. • ASI provide | | | | for go-live. IVV remains concerned that any additional delays might push out the project schedule and implementation milestones. 11/30/23 - The | | n |
| | | with accurately estimating development task level of effort (i.e., story points) and the project has been challenged with producing a project | lead to a project schedule that is flawed and unrealistic. Previously, DHS had indicated, and IVV agreed, that some of these delays were due to some | is accurately and consistently reflected in the project schedule. • ASI provide DHS with the time needed to effectively evaluate the reflecter. | | | | out the project schedule and implementation milestones. 11/30/23 - The ASI reported delays in interface design and development, and unplanned | | a |
| | | | ASI BAs lacking the expertise required to create optimal designs and system | | | | | Asi reported delays in interface design and development, and unplanned development effort required to unwind EBT functionality deferred to post- | | |
| | | ASI continues to be challenged with finding qualified resources in a timely | specifications that developers could consume without requiring extensive | attendees during each demo. • ASI regularly report estimated story points | | | | go-live due to a missing requirement for PIN issuance. Additional | | ď |
| | | manner. | clarification from the ASI BA/SA team. DHS and IVV observed instances | for the total remaining project work to reach go-live and presents a dynamic | | | | development sprints were added to address the delays, and these sprints | | |
| | | | where ASI BAs/SAs have presented less than optimal designs and left it to | burn-down chart to track the progress. COMPLETE CLOSED • DHS request | | | | resulted in a planned overlap of development and INT with SIT. IVV remains | | Ri |
| | | | DHS (who may lack software or UI design expertise) to improve, which has | the ASI strategically add the right project team resources to effectively | | | | concerned that additional development delays could require further | | · · |
| | | | contributed to unproductive design sessions (see Finding #61). It remains | increase velocity. Note that adding additional junior resources may not be a | s | | | reduction of scope and system features. 10/25/23 - The ASI has noted gaps | | de |
| | | | unclear if scope creep has contributed to these delays. | effective as staffing additional expert-level development, analysis, and other | r | | | in communication (design misunderstandings) between ASI BAs and DHS | | tw |
| | | | | resources that can lead and mentor junior resources. • ASI reviews the | | | | SMEs; DHS project management is working with the ASI to determine the | | DE |
| | | | | development process and identifies and mitigates the challenges preventing | 3 | | | best way to address this. The DHS SMEs have suggested that design | | |
| | | | | them from incorporating Epic demo activities into the project schedule. (9/29/23 - ASI will not be doing this, with DHS approval) | | | | decisions/communications would be more productive if more than a few SMEs were included in the live demos. If these communication challenges | | th |
| | | | | (9/29/23 - Asi will not be doing this, with DHS approval) | | | | continue. It could lead to development delays. While the ASI added 5 | | |
| | | | | | | | | developers to focus on ADA defects, it remains unclear if addressing ADA | | |
| | | | | | | | | requirements will incur further development delays. 9/28/23 - DHS SMEs | | |
| | | | | | | | | have expressed concerns that the ASI appears to be cutting corners in order | | |
| | | | | | | | | to increase their development velocity and meet development milestones. | | |
| | | | | | | | | Though the project has elected to minimize scope creep, SMEs remain | | |
| | | | | | | | | concerned that the ASI is pushing back on some important design | | |
| | | | | | | | | refinements. They have noted that the Projects decision to record demos | | |
| | | | | | | | | instead of having live collaboration sessions with SMEs could hinder good | | |
| | | | | | | | | design and slow the design feedback loop. If critical refinements are | | |
| | | | | | | | | discovered late into the development lifecycle, it may necessitate last- | | |
| | | | | | | | | minute revisions and could potentially result in schedule delays. 12/31/2023 - With 10 epics for release 0.12 in development, another | | |
| oject 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 | 4 2 Med | Open | 12/31/2023 - With 10 epics for release 0.12 in development, another | | |
| ons diminishes effective planning Issue | Management | results that have not yielded improvement. Concerns with the structure, estimating practices, and ability to manage to the schedule persist. The use | constant schedule changes, resources not being available when needed, rushed activities, and general frustration which can lead to schedule delays, | ASI provide details on how Velocity measures were used to develop | | | | development and integration testing sprint was added to the schedule. IW remains concerned that under-estimated effort and resulting elongation of | | |
| | | | | | | | | | | |
| urce management, which could | | of multiple state to the state of the state | lander of the state of the stat | estimations for development effort in new version of DDI schedule | | | | and the second terror to the second terror and the second terror and the second terror and the second terror and terror and the second terror and terror a | | |
| late deliverables, cost increases, | | of multiple tools to track resources obfuscate resource management. | low quality output, scope changes, and budget issues. | COMPLETE DHS and the ASI agree to a revised schedule against which | | | | schedule could impact implementation milestones. 11/30/2023 - Additiona | al | A |
| late deliverables, cost increases, | | of multiple tools to track resources obfuscate resource management. Previous IV&V findings focused on specific schedule components such as | low quality output, scope changes, and budget issues. | COMPLETE DHS and the ASI agree to a revised schedule against which project deliverables can be managed. (2/28/2023 - complete) ASI host a | | | | schedule could impact implementation milestones. 11/30/2023 - Additional development and testing sprints were added to the schedule, supporting | al , | A |
| late deliverables, cost increases, | | of multiple tools to track resources obfuscate resource management. Previous IV&V findings focused on specific schedule components such as resource management and critical path analysis, all of which were | low quality output, scope changes, and budget issues. | COMPLETE DHS and the ASI agree to a revised schedule against which project deliverables can be managed. (2/28/2023 - complete) ASI host a weekly meeting with DHS and IVV to review all changes to the project | | | | schedule could impact implementation milestones. 11/30/2023 - Additional development and testing sprints were added to the schedule, supporting IVV's concern that the effort required for completing the core solution for | al r | A: pr si |
| late deliverables, cost increases, | | of multiple tools to track resources obfuscate resource management. Previous IV&V findings focused on specific schedule components such as | low quality output, scope changes, and budget issues. | COMPLETE DHS and the ASI agree to a revised schedule against which project deliverables can be managed. (2/28/2023 - complete) ASI host a project with the project schedules (Primary and DDI). (8/31/2023-complete) CLOSED ASI plan and | | | | schedule could impact implementation milestones. 11/30/2023 - Additional development and testing sprints were added to the schedule, supporting IVV's concern that the effort required for completing the core solution for BES continues to be under-estimated; potentially resulting in missed implementation milestones. The additional development sprints for | al . | A pi si |
| late deliverables, cost increases, | | of multiple tools to track resources obfuscate resource management. Previous IV&V findings focused on specific schedule components such as resource management and critical path analysis, all of which were | low quality output, scope changes, and budget issues. | CDMM-ETE DHS and the ASI agree to a revised schedule against which project deliverables can be managed (1/28/0732 scomplete) ASI host a weekly meeting with DMS and MV to review all changes to the project schedules (Pmmay and DDI). (8/31/0232-complete) CJOSED ASI plan and execute Epic development so that Epic demos can occur earlier in the release schedule and allow time for oossible revisions. [1/211/2023 No | | | | schedule could impact implementation milestones. 11/30/2023 - Additional development and testing sprints were added to the schedule, supporting IVV's concern that the effort required for completing the core solution for BES continues to be under-estimated; potentially resulting in missed implementation milestones. The additional development sprints for | al . | A pi si m w |
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| | Finding | Identified | | | | | lyst Finding | | |
|---|--------------------------------------|-------------------|---|--|--|-----------------------------|-------------------|--|-----------------------|
| sufficient configuration management F | eporter Type ors, Michael Finding | Date Category | Observation The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the | Significance Configuration Management is a set of processes and procedures that | OPEN • ASI adhere to plans for configuration management as documented | | ty Status Open | 12/31/23 - The project will utilize the DHS contractor currently assisting | Client Comments Vendo |
| ould lead 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 | | Орен | with security activities to update the Configuration Management Plan | |
| educe 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 | | | (CMP). The scope of work that the DHS contractor is responsible for is | 10/31, |
| | | | selecting CM tools (e.g., CMDB), and building out the CM infrastructure. The | | | | | unclear to IV&V. 11/30/23 - The ASI has yet to provide a detailed list of | Vic- |
| | | | | with accurate, dynamic and timely information on some of the configuration | | | | configuration items to DHS and IVV. IVV has restated this request to the ASI | listing |
| | | | | items. However, it is critical that DHS/ASI agree to the full list of items that | | | | so that the level of detail is clear. 10/26/23 - The ASI provided broad | planto |
| | | | relies on Github for tracking of some configurations. | are included in the configuration plan along with the details regarding the | | | | information on the configuration items being tracked but have yet to | MF - B |
| | | | | 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 | | | provide detailed configuration items for IVV review. The ASI has deprioritized some configuration management activities, which it intends to | Vic - w on the |
| | | | | | are being followed, are effective, and are achieving DHS objectives for CM 7/31/2022 | | | perform in preparation for Maintenance and Operation (M and O). 9/28/23 | |
| | | | | | 17344044 | | | The ASI gained DHS' approval on the items that will be tracked and | Impor |
| | | | | | | | | 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. | the Mi |
| | | | | | | | | 7/31/23 - No material update. 6/30/23 - No material update. 5/31/2023 - | 10/11/ |
| | | | | | | | | The ASI continues to make progress with its utilization of the ServiceNow | |
| | | | | | | | | Configuration Management (CM) tool. They have recently performed an | IV&V |
| | | | | | | | | initial import of Google Cloud Platform server details into the ServiceNow | list las |
| | | | | | | | | Configuration Management Database. *** Continued work. Setup in ServiceNow, will be building up instances. Ongoing support and main. | waitin respon |
| | | | | | | | | Dont' think still a risk. IVV to discuss. 4/30/2023 - The ASI finalized the | |
| | | | | | | | | ServiceNow (SN) modules they will utilize for the project. 3/31/2023 - The | see th of con |
| | | | | | | | | ASI is currently evaluating which Service Now (SN) modules will be the best | manag |
| | | | | | | | | fit for the project and for DHS going forward. Details of exactly how they'll | |
| | | | | | | | | be using SN and the level of configuration management they intend to | manae |
| | | | | | | | | perform has yet to be determined. 2/28/2023 - The new ASI intends to | Service |
| | | | | | | | | utilize ServiceNow (SN) for most configuration management tracking. | Incide |
| | | | | | | | | Details of exactly how they'll be using SN and its multitude of modules and | Change |
| | | | | | | | | capabilities remain unclear. 1/31/2023 - Activity in the reporting period | Manag |
| | orring, Erik Finding - | 7/12/2021 Testing | While R0.3 and R0.4 reported that Section 508 compliance had been | There is a contractual obligation and requirement for BES to be ADA | - The ADA tool meets contractual and project requirements The ASI | As soon as possible 3 3 Med | Open | 12/29/2023 - ADA testing continued through December. Currently, the ASI | |
| ection 508 compliance tool has not been | Risk | | successfully completed the ASI confirmed that there is currently no working | | | and prior to final | | plans to review 60 User Journeys to complete ADA testing. Six User Journeys | |
| stalled timely for the Project, which may suse significant rework. | | | tool installed and that Section 508 compliance testing has not been performed. This risk has been discussed with the ASI over the past several | The ADA Section 508 intent is to make electronic and information technology accessible to people with disabilities (e.g., color blindness, | communicates how the tool will be used to report compliance and non- compliance and how non-compliance will be addressed/corrected. | solution | | have been reviewed using Usablenet and 76 defects were identified, with 64 defects resolved by the end of December. 11/30/2023 - Approximately 150 | |
| iuse significant rework. | | | months, but there have been evidence of results to-date. The ASI did state | | (Complete) - The ASI provides DHS/IV&V reports from the ADA tool | acceptance. | | ADA-related defects remained outstanding at the end of November. With | Kama set ui |
| | | | that they are coding to some of the ADA requirements and are using a desk- | | | | | minimal time remaining for development work and the possibility of more | ADA t |
| | | | top tool for ADA compliance as an interim solution. IVV has not received | "all applicable State and federal policies, laws, regulations, and Standards, | necution and explain now to interpret the results. (complete) | | | ADA defects identified as development continues, IV&V has requested | ADA I |
| | | | any data to demonstrate the desk-top tool results nor if it provides coverage | | | | | reporting on; - functionality to be developed that needs to be ADA-tested - | devel |
| | | | for all ADA compliance items. | Accessibility Standards associated with Section 508 of the Rehabilitation | | | | functionality developed that needs to be ADA-tested - functionality | check |
| | | | | Act., which was verified in the ASI proposed Technical Requirements | | | | developed that has been ADA-tested The ASI has confirmed this information | |
| | | | | Approach that states "The system complies with DHS branding standards as | | | | will be provided in the November reporting period, however, the ADA | examir |
| | | | | defined by DHS and adheres to W3C level 2 accessibility guidelines, sub- | | | | metrics for the month of November have not yet been delivered. If | 5 deve |
| | | | | parts of Section 508 of the Americans with Disabilities Act (ADA), | | | | considerable progress is not available for DHS to verify, the risk criticality | scrum |
| | | | | nondiscrimination safeguards in 45 CFR 85.". If the Hawaii guidelines | | | | rating may increase to High in December. 10/31/2023 - The ADA | branci |
| | | | | (https://www.hawaii.edu/access/uh-guidelines-for-accessibility/), FNS | | | | compliance tool was installed in August 2023 and uncovered approximately | |
| | | | | Guidelines from the 901 Handbook, and contractual obligations to adhere to | | | | 300 ADA-related defects. About 200 defects remained open at the end of | pipelin |
| | | | | the Section 508 compliance guidelines (https://section508.gov/) there may | | | | October. Considering the high number of defects and minimal time | New d |
| | | | | be a significant amount of rework to the solution. | | | | remaining for development work, the ASI reevaluated ADA processes for | valida develo |
| | | | | | | | | efficiencies and improved preventative measures. As a result, the ASI plans to use the Usablenet browser extension to find ADA defects in real time | plug-is |
| | | | | | | | | to use the usablenet prowser extension to find ADA defects in real time during development. The ASI will address these defects during development | |
| | | | | | | | | to minimize the number of ADA defects released into subsequent testing | Codev |
| | | | | | | | | environments. Additionally, the ASI will dedicate 5 ADA-focused developers | Viv-Ti |
| | | | | | | | | and a Scrum master to address the existing ADA defects and anticipates | report |
| | | | | | | | | having sufficient time to address the defects without impacting the Project. | |
| | | | | | | | | 9/30/2023 - Formal ADA testing began ahead of schedule. The ASI reports | Rama |
| | | | | | | | | continued use of UsableNet and is addressing issues the tool is identifying. | |
| | | | | | | | | The ASI created and shared a high-level ADA testing approach and | fix all |
| lack of early planning and coordination Re | | | | DDI project often underestimate the time needed to effectively manage all | | | Open | 01-04-2024 - Due to the number of open issues that could potentially | |
| | Aark Issue | Interface | and documented by the ASI Connectivity is planned to utilize a presently | the tasks and activities to successfully implement data sharing. A clearly | | | | impact interface development (e.g., incomplete agreements, unavailable tes | |
| edule delays. | | Management | undefined ETS API Gateway; however, there is no evidence that details have | | | | | regions, and interface/batch testing schedules yet to be defined) IVV has | 10/31, |
| | | | been determined or documented in this regard. There is little evidence of | | | | | raised the criticality rating to High. 11-30-2023 - Two of the 23 MOA/MOU | and a end of |
| | | | active and sufficient communication with interface partners for coordination, design, and testing activities (Unit Test, SIT, UAT), interface | the risk of potential delays. In addition, after planning has been completed, | | | | (DLIR and DoTAX) are not signed and remain outstanding. DHS continues efforts to complete these agreements to minimize further impact on the | end of Metw |
| | | | | interface partners will have to be available during interface implementation to ensure that the interfaces are properly developed and tested before | | | | efforts to complete these agreements to minimize further impact on the project. This finding is now an issue due to the realized impact to the | toget |
| | | | partners, are neither resident nor managed within the Project Schedule. | to ensure that the interfaces are properly developed and tested before deploying the system to production. | DDI activities. COMPLETED 10/29 2. Identify and document all interface | | | project. This finding is now an issue due to the realized impact to the project. The SSA interface requires documentation to be submitted 120 day. | |
| | | | parameter and resource for managed women one ridget screene. | anguaryg apartition productions. | partners' contacts. COMPLETED 3/31/2022 3. Define a release schedule fo | | | before the pilot's data usage. This SSA documentation is expected to be | M.tof |
| | | | | | each interface to include milestone dates, coordination, and execution and | | | ready by December 15th, 107 days prior to the April 1st pilot. Although the | |
| | | | | | share with the interface partners. COMPLETED 01/04 4. Determine which | 1 | | SSA has informally stated that they can complete the review within the | DoTAX |
| | | | | | deliverable will include the details associated with the planned connectivity | | | shorter timeframe, a risk exists to the availability of the SSA data. The | interfa |
| | | | | | and detailed technical designs of all interfaces. COMPLETED 01/04 | | | interface testing team was organized in November, but planning has not | overla |
| | | | | | | | | begun and meetings have not commenced. Interface testing remains | busyin |
| | | | | | | | | unscheduled and is a growing concern as the Pilot date approaches. The ASI | |
| | | | | | | | | in internally reviewing the Interface Test Plan and will share it with DHS in December. 10-26-2023 - Two out of 23 MOA/MOU are outstanding: the ASI | |
| | | | | | | | | | |
| | | | | | | | | is reporting an agreement was reached with DLIR and it is ready for signature; the DoTAX MOU does have some challenges and is currently | from C sample |
| | | | | | | | | signature; the DoTAX MOU does have some challenges and is currently being addressed by the ASI and DHS. The Functional Design of all 23 | sampi Rama |
| | | | | | | | | Interfaces was completed and approved by DHS. Nine of the twenty-three | |
| | | | | | | | | Interfaces was completed and approved by DHS. Nine of the twenty-three Interface Control Documents were completed, reviewed, and approved by | |
| | | | | | | | | DHS. 09-29-2023 - The Memorandums of Agreement and the | with R |
| | | | | | | | | Memorandums of Understanding (MOAs and MOUs) are being reviewed. 7 | |
| | | | | | | | | of 28 MOAs, including the DLIR interface, have expired or will expire by the | |
| | | | | | | | | end of 2024. DHS/ASI has yet to provide a target date for resolving the | PROD |
| | | | | | | | | | |
| | | | | | | | | expiring MOAs and MOUs. IVV will continue to monitor MOA and MOU items. The DHS concern that the ASI was changing Functional Design | use. O |

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