

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

September 20, 2023

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 http://ets.hawaii.gov (see "Reports").

Sincerely,

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: August 1 – 31, 2023

Submitted: September 19, 2023



Overview

- Executive Summary
- IV&V Findings and Recommendations
- IV&V Engagement Status
- Appendices
 - A IV&V Criticality Ratings
 - B Risk Identification Report
 - C Acronyms and Glossary
 - D Background Information



Executive Summary

Executive Summary



The ASI published the revised BES project schedule in August, which includes an eight-week delay of the BES Final Acceptance Test start-up and follow-on Pilot and Statewide implementation. The eight weeks were added to the Release 12 development tasks and activities. The revised schedule also reduced the duration of the BES Statewide Implementation from 107 days to 43 days. The ASI communicated that refinement of the Release 12 development estimates increased the required effort and the resulting need for an eight-week extension. Other key areas of interest include:

- DHS reported several instances of the ASI changing the BES design documentation without DHS awareness, which may present risk to the BES project. IV&V is researching and will provide an update in our next report.
- The ASI requested and DHS agreed to have Sprint Demos recorded by the ASI and sent to DHS for review, rather than hold joint open feedback sessions. The goal of the Sprint Demo is timely and accurate DHS feedback on the developed software so that the ASI can adjust the software quickly and efficiently. IV&V is concerned that DHS giving feedback on a static recording will lead to incomplete feedback or a slower response time if DHS needs clarification.
- There was confusion during UAT for Release 11 since the team did not know what functionality was ready to be tested. Providing a clear understanding of functionality that will be released in Pilot vs. post-Pilot is critical for both DHS and the ASI for implementation planning and execution.

Jun	Jul	Aug	Category	IV&V Observations
M	M	M	Project Management	The ASI revised the BES project schedule, adding 8 weeks to design and development. DHS, FNS, and IV&V are reviewing and will provide feedback to the ASI.

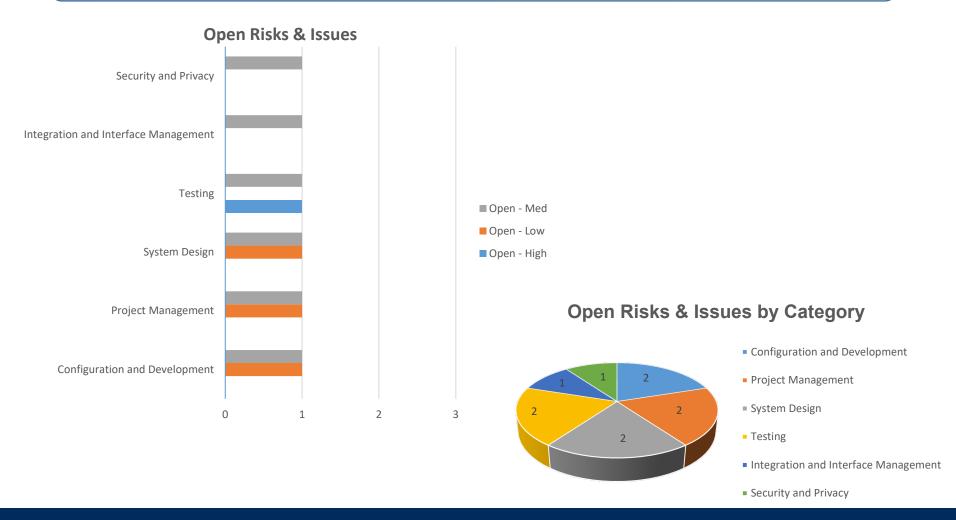
Executive Summary



Jun	Jul	Aug	Category	IV&V Observations
M	M	M	System Design	The decision to conduct the Sprint demos via recordings rather than allowing for in-person attendance raises concerns for IV&V. An increased opportunity to miss critical details and asynchronous communication may lead to delays or missing functionality.
L	M	M	Configuration and Development	The ASI reassessed the scope of Release 12 which led to the request for an 8-week extension to complete the release development.
L	M	M	Integration and Interface Management	The ASI continues to work on interface development, but outstanding interface agreements are a concern and may impact the schedule. ASI changes to interface design documents that occurred without DHS knowledge are also concerning to IV&V.
M	H	Н	Testing	IV&V continues to analyze the ASI's testing coverage in the earlier testing cycles to identify improvement in the preparation for Final Acceptance Testing.
M	M	M	Security and Privacy	The 8-week extension provides more time for the Security and Privacy team to complete their work, helping mitigate the concerns regarding incomplete technical documentation.

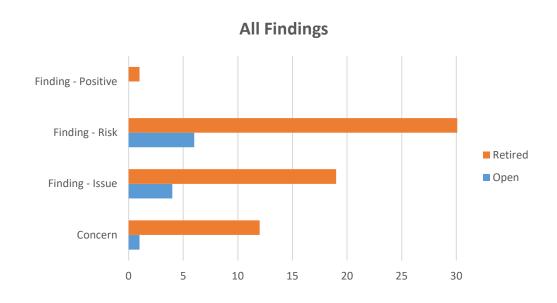


As of the August 2023 reporting period, PCG is tracking 10 open findings (6 risks, 4 issues) and has retired a total of 68 findings. Of the 10 open findings, 1 are High, 6 are Medium, and 3 are Low.





The following figure provides a breakdown of the 79 IV&V findings (positive, risks, issues, concerns) by status (open, retired).





Findings Retired During the Reporting Period

#	Finding	Category
	None	



Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
	Preliminary Concern – The current UAT approach and planning may not be complete, which increases the likelihood of missing UAT timelines.	
84	The project is applying Release 11 UAT Lessons Learned to plan for the Final Acceptance Test (FAT). A specific example is as the Project Team updates the project schedule to accommodate the 8-week BES implementation delay, the training and test development timelines for FAT were adjusted. This includes securing DHS FAT resources early to conduct training and support test development. IV&V will continue to monitor the ASI efforts toward the recommendations of this finding.	Testing

Recommendations	
 Conduct lessons learned session to incorporate into FAT, including updates of all processes, procedures, roles and responsibilities 	In Process
Train testing resources early before FAT begins and walk through end-to-end scenarios.	In Process
Develop contingency plans if Release 11.1 UAT does not proceed as planned.	Not Started
Conduct comprehensive FAT planning	In Process



Findings Opened During the Reporting Period

#	Finding	Category
	None	



Project Management

#	Key Findings	Criticality Rating
	Issue – Uncertainty and/or a lack of communication around long-term architecture decisions could impact the project budget, schedule, system design, and planning decisions.	
29	The ASI continues to work on the BI-12 System Architecture Deliverable, with chapters for Common Functions, Shared Services, System Security Plan, Audit System, and Physical Architecture currently under internal review. DHS and IV&V are expected to receive these chapters for review in the month of September.	L

Recommendations		
The ASI should continue to update the BI-12 System Architecture Deliverable with additional details as they become available and with any finalized architectural changes.	In process	
 DHS should continue to ask the ASI to perform due diligence in any recommendation for foundational architecture change decisions and continue to review with appropriate DHS stakeholders (e.g., KOLEA) to assure a common understanding of the implications of these decisions. 	In process	
The Project should continue to ensure communication between development leads and architecture leads to assure optimal collaboration on possible architecture changes that could impact decisions in each area.	In process	



Project Management

#	Key Findings	Criticality Rating
	Issue – A BES Project schedule based on inaccurate estimations diminishes effective planning and resource management, which could result in late deliverables, cost increases, and a late go-live.	
74	The 8-week implementation delay provides the project team with additional time to develop and test the planned Release 12 functionality, including work that was moved from Release 11. Addressing IV&V recommendations for this finding could further remediate risk to the project schedule.	M

Recommendations	Progress
Monitor, evaluate and revise scheduling estimates for accuracy.	In process
 As requested by DHS, add key milestones to the project schedule, such as Sprint and Epic demos, to show key progress towards completion of Epics. 	Not Started
 ASI plan and execute Epic development so that Epic demos can occur earlier in the release schedule and allow time for possible revisions. 	In process
 ASI hosts a bi-weekly meeting with DHS and IV&V to review all changes to the project schedules (Primary and DDI). 	Complete



Integration and Interface Management

#	Key Findings	Criticality Rating
63	Risk – The lack of early planning and coordination with interface partners may result in schedule delays.	
	The ASI determined that some of the previously closed MOAs/MOUs may have expired or will expire, therefore, all MOAs and MOUs are being reviewed and re-verified by DHS. This process is not expected to create any roadblocks or schedule delays other than the manpower diversion required to resolve the MOA/MOU statuses.	
	During the August 14th interfaces meeting, the DHS raised concern that the interface Functional Design Documents (FDDs) have changed and no longer reflect designs made during the 2020-2022 timeframe. IV&V is concerned that the designs changed without DHS involvement and may require rework. DHS and IV&V are awaiting the ASI response as to why the designs changed and what corrective actions are necessary.	

Recommendations	Progress
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
 ASI and DHS conduct a root cause analysis to determine the reason FDDs were changed without DHS knowledge. 	Not started



Configuration and Development

#	Key Findings	Criticality Rating
70	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution. There is no material update for this reporting period.	L

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
 DHS 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
	Risk – Development delays could negatively impact the project schedule and delay go-live.	
80	The pilot go-live date has been extended by 2 months. The ASI reported that analysis of the Release 12 development effort made it apparent more time would be needed to complete development. DHS SMEs have reported concerns that the ASI continues to remove scope to meet planned milestones. IV&V remains concerned that DHS and ASI differences regarding functionality for Go-Live may impact the project and cause further delays and a reduction in scope. The Project decision to have the ASI provide recorded Sprint Demos rather than in-person meetings with DHS to gather real-time feedback may lead to delayed feedback, increased DHS questions, and ultimately result in delaying development rather than adding efficiency.	M

ı	Recommendations	
	DHS request the ASI strategically add the right project team resources to effectively increase velocity. Note that adding additional junior resources may not be as effective as staffing additional expert-level development, analysis, and other resources that can lead and mentor junior resources.	In process
	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 reviews the development process and identifies and mitigates the challenges preventing them from incorporating Epic demo activities into the project schedule.	Not started



System Design

#	Key Findings	Criticality Rating
	Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts.	
73	The ASI has reported progress in the build-out of Chronicle, their event logging tool. The weekly Architecture/Infrastructure coordination meetings appear to be productive, and the ASI reports that no additional changes are planned for the BES Infrastructure. IV&V will continue to monitor this finding and look for ASI progress in addressing the recommendations.	L

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
		Issue – Limited collaboration between the ASI and DHS in the design process could lead to BES and BES-SSP usability issues and functionality gaps in the applications, and not meeting critical business needs for DHS and State clients.	
8	36	The ASI will no longer conduct in-person Sprint Demos with DHS approval. Instead, recorded sessions will be provided to 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 record Sprint demos without any DHS participation could limit rather than enable timely feedback and contradicts Agile methodology. IV&V encourages ASI and DHS to consider this finding's recommendations to reduce miss-alignment on design that impacts development, testing, and final solution.	M

Recommendations	
 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. 	In process
• 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



Testing

;	#	Key Findings	Criticality Rating
		Risk - The Americans With Disabilities Act (ADA) Section 508 compliance tool has not been installed for the Project, which may cause significant rework.	
6	57	ADA testing started August 1, 2023, and will continue through February 2, 2024. The ASI developed 6 User Journeys and executed 3 tests using the Usablenet tool, which successfully produced reports and results. The ASI is using these tests and reports to address ADA issues and defects. In addition, the ASI is addressing the open IV&V recommendations.	M

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



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	The Unit, Integration (INT), and System Integration Testing (SIT) testing phases are not comprehensive, meaning business requirements and functionality are unmet. Specific examples found in User Acceptance Testing (UAT) involve user-selected values not being saved within the system, and conversely, some invalid values being saved. It is unclear why these defects were not identified in the Unit, INT, and SIT testing conducted by ASI. Furthermore, essential activities designed to enhance ASI's test coverage, such as obtaining approval from the DHS for SIT test cases prior to entering the SIT phase, have been overlooked and remain unexecuted.	Н

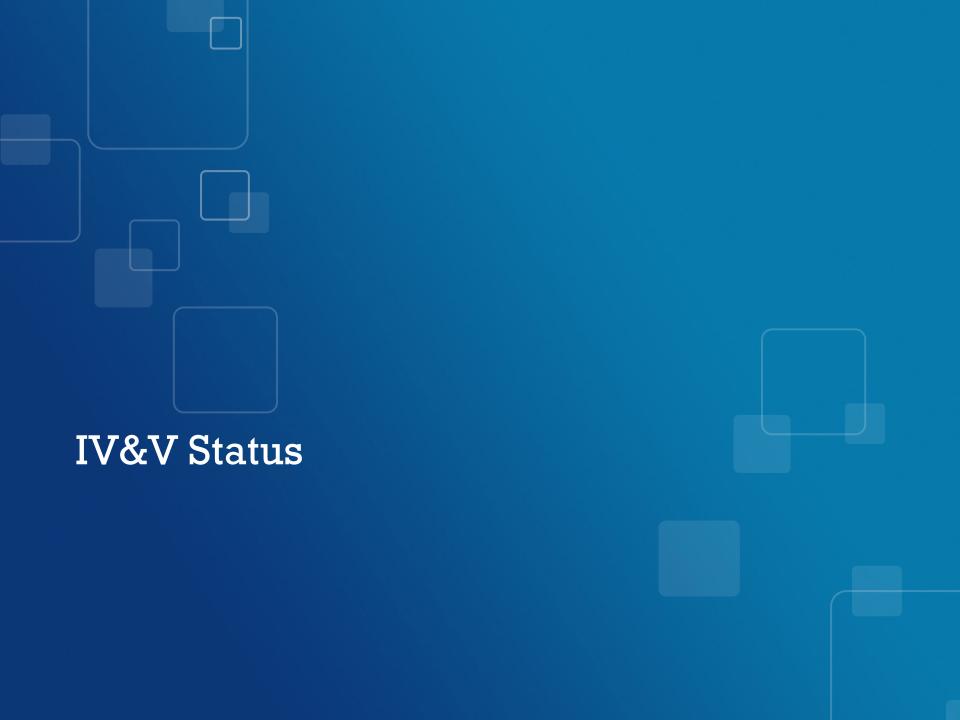
Recommendations	
Monitor SIT closely for both breadth and depth of testing to ensure the system is adequately tested.	In process
 The project team reviews the SIT exit criteria and revises them as needed to ensure UAT begins with the best system possible. 	In process
 The ASI should determine the root 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 FAT. 	Not Started



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	At the end of August 2023, a majority of the 96 controls from the base SSP were completed. While the Secure Enclave is under design, only 20 implementation statements had been written for the 163 IRS-specific controls at the time of this report. Given that, IV&V remains concerned that the Security team may not be able to complete the remaining implementation statements for IRS-specific controls – even with the extended project schedule.	M

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.	Not Started
 Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. 	Not Started



IV&V Engagement Status



IV&V Engagement Area	May	Jun	Jul	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final July IV&V Monthly Status Report.
IV&V Staffing				
IV&V Scope				

	Engagement Status Legend	
The engagement area is within acceptable parameters.	The engagement area is somewhat outside acceptable parameters.	The engagement area poses a significant risk to the IV&V project quality and requires immediate attention.

IV&V Activities



- IV&V activities in the July reporting period:
 - Completed July 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 September 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	08/16/2023 08/092023	N/A
BI-5 Project Schedule - BES 2023 DDI	08/16/2023 08/092023	N/A

Additional Inputs – Artifacts



Artifact Name	Artifact Date	Version
BES 2023 Design Kanban board	N/A	N/A
RO.11 Epic Assignment	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

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- IV&V Team Meeting 8/3/2023, 8/7/2023, 8/10/2023, 8/11/2023, 8/14/2023, 8/17/2023, 8/21/2023, 8/24/2023, 8/28/2023, 8/31/2023
- 2. IV&V August 2023 Pre-Draft MSR Findings Review 7/28/2023
- 3. HI DHS BES August Draft IV&V Report Review 8/10/2023
- 4. Bi-Weekly DHS and IV&V Touch Base 8/3/2023, 8/22/2023
- 5. Weekly BES Infrastructure meeting 8/4/2023, 8/11/2023, 8/18/2023, 8/25/2023
- 6. DHS/IV&V Check-in 8/8/2023, 8/17/2023, 8/31/2023
- 7. Bi-Weekly Client BES 2023 Project Status Meeting 8/16/2023, 8/23/2023
- 8. Security Touchpoint 8/2/2023, 8/9/2023, 8/16/2023, 8/23/2023, 8/30/2023
- 9. PMO End of Day Huddle 8/3/2023, 8/8/2023, 8/17/2023, 8/22/2023, 8/24/2023, 8/31/2023
- 10. (External) Weekly Interfaces Touchpoint 8/7/2023, 8/14/2023, 8/21/2023, 8/28/2023
- 11. (External Pre-design) BES HANA Integration/Reports Discussion (TANF) 8/9/2023
- 12. (External) UI Standards Monthly Review 8/2/2023
- 13. (External) BI-5 Project Schedule Feedback Review 8/28/2023
- 14. (External) Epic 213: Case Location 8/3/2023
- 15. (External) Bi-Weekly Client BES 2023 Schedule Review/Status 8/30/2023
- 16. (External) BES System Security Plan Controls 8/1/2023, 8/15/2023, 8/22/2023, 8/29/2023
- 17. (External) Readiness and OCM General Meeting 8/23/2023
- 18. (External) Bi-weekly BES CCB Meeting 8/2/2023, 8/16/2023, 8/30/2023





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.
M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be evaluated and implemented as soon as feasible.
L	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.

Appendix B – Findings Log



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

Appendix C – Acronyms and Glossary



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



Appendix C – Acronyms and Glossary

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



Appendix C – Acronyms and Glossary

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

Appendix D – Background Information



Systems Modernization Project

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

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

Systems Modernization IV&V Project

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

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

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

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

Appendix D – Background Information



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

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

PCG's Eclipse IV&V® Technical Assessment Methodology

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

IV&V Assessment Categories for the BES Project

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

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

Endina Slide



Solutions that Matter

ID Title Benotter Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizontox	oact Probabil	Analyst ity Priority	Finding Status	Status Update	lient Comments	Vendor Comments
66 Limited collaboration between the ACI and Mollina, Braid Finding - CMS is the deep proces could lead to be seen as tissue and 85-SSF usability issues and set SSF usability issues and functionally gain in the applications, and not meeting critical business needs for DHS and State clients.	8/1/2023 System Design	concern sixed by the Dist testers regarding the usability of the Els System challeges with the seri Interface, Inseign enforcables, and busic croen layout usus that would not be registed in a modern application. Based on the properties of the properties of the properties of the properties of residue for "design error". Although the Reliase 1 LIAT Cycle was testing a partially build system, a significant amount of design defects was stributable to functionality developed for Release 11.	confidence in the solution providing the accurate information needed to provide benefits in 16 it distens; reduction in ability for DFS to provide the same level of needed services to clients, resulting in bad publicity for DHS and the state.	NS and Diff functional and technical requirements and system usability. Proferon Spriser and Epic down is alignment with development spriser completion (sprise and Epic down is laughtered with exceptional programments as they are developed to get requirements and exception of the spring and exception of the					#31/2021. The ASI will no longer conduct in person Sprint Demon with OTS approach. Insecting Concrete accessions will be provided to Dirk with time to review. The amount of time for DIS to review the demon and the feedback process short both ASI is undertender. The decision to record Sprint demon without any DIS participation could limit rather than enable many feedback and compared for Aging Personal Conference and and the provided of the Conference of the Conference and and the Conference of the Conference of the Conference of the Conference on design that impacts development, testing, and final solution.		08/10/2023 Ax mentioned, Release 11 was just a partial development of the BES System as we continue to evolve the application with R0.12. There were a number of issues/defects that were not part of R0.11 but are included in R0.12.
48 The current UAT approach and planning may Tar, Ryan Concern not be complete, which increases the likelihood of missing UAT timelines.	6/29/2023 Testing	the Project appears unprepared for Release 11 UAT. For example, new testing processes, including a Teams Issue Tracker, are not fully developed. While basic workflow understanding exists test team members raised many	Without a defined and developed LUT approach and resource plan, there is a potential risk or fining LUT terrellers. Now, the R11 LUT phase does not fall within the critical parts of the project, and a delayed completion or consciously considered to the considered completion or consciously completed to the considered three considered completions or considered to the considered completion or the considered completion or considered completions or considered completions or considered	Testing (FR), including updates of all pincesses, poscuburs, role and authorized the control of	UAT	3	1 Low	Open	### AIVATOR 1—The project is applying felores 11 UAT Leasons Leamed to plan for the Final Acquisition that (Fig. 14), appet for accept for 14 Aira Appet for the Final Acquisition that (Fig. 14), and the Aira Aira Aira Aira Aira Aira Aira Aira		
18 dags in frest covarage and sidement have expected progress, in sterling may receil in schedule delays if subsequent test phases uncover a higher colument of electics and user feedback than initially associated.	6/2/593 Testing	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 commences System Integration Testing (S1T). The ASI has plans to complete	Identifying defects only is visited for effective testing, as is in more efficient and and cost effective the devolves testing state enry testing regards. If there is allow progress or incomplete testing in the early states, it can result in more effects testing into subsequent testing planes, recesstrating more with an esting or the enry states. If the entire of the enry states is the entire of the enry states and the entire of the enry states and the enry states are the enry states and enrountering enginement defects, entire the enry states are the enry states and enrountering enginement during the final testing stage, known as Final Acceptance Testing (YAT).	simple defects in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering FAT DHS and ASI monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested The Project team reviews the SIT		4	4 High	Open	### ADVISION OF THE ADVISOR OF		oal 107023 No mentioned or reference to the go decision for final facilities of the first state of the first
12 The List of technical documentation may Heath, Dustin Rinding - load to incorrect implementation statements. or delay the System Security Plan	4/27/2023 Security and Privacy	supporting the SSP is unavailable, outdated, or in a draft form. During April, decisions on what tools support the SSP controls are still being decided on. Implementation statements are currently being written from the perspective	enhancements, and each one requires an implementation statement of how	the SSP authors - Collaborate and communicate with SSP authors about	December 15th, 2023 when the full SSP is cheduled for completion and approval prior to approva	3	3 Med	Open	ON/13/1203-1.4 the end of August 2013, a majoring of the Sic controls from the bas 50° were completed. Where the secure forcines is under design, which bas 50° were completed. Where the secure forcines is under design, specific controls at the time of this report. Given that, 90° remains concerned that the Security fare many one be able to complete the remaining implementation statements for IRS-specific controls — were with the sentimed project violation. For IRS-specific controls — were with the sentimed project violation. For IRS-specific controls — were with the sentimed project violation. For IRS-specific controls — were with the sentimed project violation. For IRS-specific controls — were with this activity appears signify behind schedule due to test staff enablishilly, it should not have an impact on the overall schedule at this time. The AGI is reviewing the existing englementation statements and fracting the control and project in the specific control of the control of the project of the control of the project violation. The control of the project violation is the specific control of the policy of the project violation of the project violation of the policy of the project violation. The AGI is an experimentation of the specific violation of the policy of the project violation of the policy of the project violation of the policy of the project violation of the policy of the control of the specific violation of the policy of the policy of the control of small project violation of the policy of the control of small projects. Nowever, the response two between the complete the complete the control of small projects with one control of small projects with the control of small projects with the contr		
Development delays could negatively impact. Fors, Michael I midning the project schedule and delay go live. Tisk	6/30/2022 Configuration and Configuration and Configuration and Configuration and Configuration	points) and the project has been challenged with producing a project schedule that accurately reflects realistic timelines (see Finding #74). The	milestones, schedule delays may lead to a delayed system go-live date. Failure to actives en gold or accuracy in entiting development trasks could lead to a project schedule that is 1 famed and unrealistic. Perioscule, IDE1 and indirection, and in 70 arrespect to 1 famed and unrealistic. Perioscule, IDE1 and indirection, and in 70 arrespect to 1 famed and unrealistic. Perioscule, IDE1 and indirection and in 70 arrespect to 1 famed and unrealistic. Perioscule, IDE1 arrespective to 1 famed and unrealistic segment and expert and system and segmentation that developes round consume without requiring destination and the original designs and left in 10 famed and 1 famed and	resources to effectively increase velocity. Note that adding additional junic resources may not be a effective a staffill additional lepart feed development, analysis, and other resources that can lead and metter junic resources. * Request the Adl effectively sead and regularly provide DRG (potentially via the weekly DDI status meeting) with an accurate velocity (e.g., story postors pad/weekl/month) as assure that the current velocit is accurately and consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in the project schoolide. *All resources are consistently reflected in	y	3	3 Med	Open	### ATTACLES THE pilot go live date his boson extended by 3 months. The ASI reported that analysis of the fellowas L2 decomposed effort made is apparent man to me would be invended to complete development. DNS SMS apparent man to me would be invended to complete development. DNS SMS planted milestones. ANY of versions concerned that DNS and ASI defferences regarding functionally for Go Live may impact the project and cause further registering functionally for Go Live may impact the project and cause further registering functionally for Go Live may impact the project and cause further real-time feedbard may lead to delayed feedbards, increased DNS speatform, real-time feedbard may lead to delaying feedbards, increased DNS speatform, real-time feedbard may lead to delaying feedbards, increased DNS speatform, real-time feedbard may lead to delaying feedbards, increased DNS speatform, real-time feedbard may lead to delaying feedbards, increased DNS speatform, real-time feedbard may lead to delaying feedbards, increased of DNS speatform, real-time feedbard may lead to the delay feedbard of the primary reason for not being ready for LIAT was they were unable to complete the purposition of the primary reason for not being ready for LIAT was they were unable to complete the purposition of the primary reason for not being ready for LIAT was they were unable to complete the purposition of the primary reason for not being ready for LIAT was they were unable to complete the purposition of the demonstration of the feedbard and has made in difficult for lay CHS Subject Matters Experts to activities the feedbard LII and LI zim to be project trackular made in activities. SN JAIL 2-1 had 12 into the project trackular funder to activities. SN JAIL 2-1 had 12 into the project trackular funder in activities. SN JAIL 2-1 had 12 into the project trackular funder to activities. The shall a purposition of the demonstration to large trackular funders.		

1

4 ABST Price tacheds based on iscurate. Molis, Bard Today. 1 1/2/2/2/2/ Price tacked based on incorrect management, which could get training and management trai	08/J0/2023 Indisorder statement should project schedule updates extrement updates of the statement updates continue to be purely.
restrict designation demander effective planning and or fractive than provided in programmer. Concrase with but that have not yielded in programmer. When Could all this gas have a distingtion and as the gas have a support that the provided in programmer. As the programmer. As the programmer. As the provided in programmer. As the programmer. As t	about project schedule updates not being provided for two weeks. Weekly schedule updates
result intellewheles, contincreasing and a late gelven. In multiple tools to tract resources ordinactor resource management. Previous NEW Direct devided composents to the previous tracked for feelings found on support and critical path sharples, all of which were addressed. The previous tracked and covered. In the previous tracked a	updates not being provided for two weeks. Weekly schedule updates
requested part of a review and content against which proget deliverables can be addressed and closed. If which were and closed and closed. If which were addressed and closed and closed and closed and closed and closed. If which were addressed and closed	provided for two weeks. Weekly schedule updates
requested part of a review and content against which proget deliverables can be addressed and closed. If which were and closed and closed. If which were addressed and closed and closed and closed and closed and closed. If which were addressed and closed	weeks. Weekly schedule updates
With crowless and company and COUNT (PM) and provided great SET projects chedule to DMS that reflects mayor revisions to 18 (\$17,1233 - and provided great SET projects chedule to DMS that reflects mayor revisions to 18 (\$17,1233 - and provided great SET projects chedule to DMS that reflects mayor revisions to 18 (\$17,1233 - and provided great SET projects between the schedule that results and provided great SET projects between the schedule that results an a return recommendation of the schedule that results an a return recommendation of the schedule that results an a return recommendation of the schedule that results an a return recommendation of the schedule that results an a return recommendation of the schedule that results and provided great schedule that recommendation of the results and provided great schedule that recommendation of the results and provided great schedule that recommendation of the results and provided great schedule that results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule schedule which recommendation of the results and provided great schedule schedule which recommendati	
With crowless and company and COUNT (PM) and provided great SET projects chedule to DMS that reflects mayor revisions to 18 (\$17,1233 - and provided great SET projects chedule to DMS that reflects mayor revisions to 18 (\$17,1233 - and provided great SET projects chedule to DMS that reflects mayor revisions to 18 (\$17,1233 - and provided great SET projects between the schedule that results and provided great SET projects between the schedule that results an a return recommendation of the schedule that results an a return recommendation of the schedule that results an a return recommendation of the schedule that results an a return recommendation of the schedule that results an a return recommendation of the schedule that results and provided great schedule that recommendation of the results and provided great schedule that recommendation of the results and provided great schedule that recommendation of the results and provided great schedule that results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule which recommendation of the results and provided great schedule schedule which recommendation of the results and provided great schedule schedule which recommendati	continue to be posted
with the carrier go-live date will not result in region from growing classifications. ((27)273) Levenge velocity and burn officence in Levenge velocity and burn of the Levenge velocity and burn officence in Levenge velocity and burn of the Levenge velocity and the L	
Leverage velocity and burn down charts to adjust development tasks estimated. Freeded Leverage velocity and burn down. Chart to adjust to entire terrest terre	
estimates freeded. Leverage velocity and barn down charts to solgest freeded. Leverage velocity and barn down charts to solgest freeded. Leverage velocity and barn down charts to solgest freeded. Leverage velocity and barn down charts to solgest freeded. Leverage velocity and barn down charts to solgest freeded. Leverage velocity and barn down charts to complete each activity integration testing sprints to testing sprints that are consistent or an experiment of the above the sprints of the abo	
development tasks estimates if modes (£73/023 - AG using first) Using the standard book in receive the current estimates of the confidence of the standard book in receive the current estimates (£73/023 - AG using first) Using the standard book in receive the current estimates of the confidence of the standard book in receive the current estimates of the confidence of the standard book in receive the current estimates of the confidence of the standard book in receive the current estimates of the confidence of the standard book in receive the current estimates of the confidence of the standard book in receive the current estimates of the confidence of the standard book in receive the current estimates of the confidence of the standard book in receive the current estimates of the confidence of the standard book in receive the current estimates of the confidence of the standard book in received the confidence of the rec	
compared pass actual hours (1737/2023 - new AS - Net Statesful Update as receivant with one pass actual hours (1737/2023 - new AS - Net Statesful Update as receivant with the project processes that may cause the project of sport actual to a specificant whether of the duration of the Principal Compared to the pr	
s necessary and provide the DEFA/SE Progress thangement with reports and data that accurately reflect the DEFA/SE Progress thangement with reports and data that accurately reflect the DEFA/SE Progress thangement and provide complete the distribution of seal Project (17/12/023) and VEV are uncertaint how the ADS deficient media between the distribution of seal Project (17/12/023) and the distribution of seal Project (17/12/023	
data that accurately reflect the DHVAS resource meets along with overlunder advancement of the man betty was also the ASI new ASI - Next Search Queening militages community of the and the search of the migrat [17],17203 - new ASI - Next Search Queening militages community of the and the search of the search of the depth of the content of the militage (17), 2013 - new ASI - Next Search Queening militages are that are with the project program that are the content of the militages are the search of the content of the militage (17), 2013 - new ASI - Next Search Queening militages are that are the content of the community of the militages are the search of the content of the militage (17), 2013 - new ASI - Next Search Queening militages are that are the search of the content of th	
Relaxes 2 Lacope with the reduction of task first of the duration of the Pringer (1/37/2023 - new AB. 1985 transformance by the Prince of the Complete of the Section of the Prince (1/37/2023 - new AB. 1985 transformance by 10%/AB. First and transformance by 10%	
nex 45 16.5 Started Develop militation and contengency gives that are declared about Pages of the fails about Pages changed in the fail of the fails about Pages changed in the fail of the fails about Pages changed in the fail of the fails about Pages changed in the fail of the fail in the	
tracked/managed by DH/AS/ for all ralss that are behind schedule or are at recent the capacity of the development reconstruction or the critical part of the property of the development reconstruction or the critical part of the property of the development reconstructs to relative part of the property	
1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address additional concerns 1/12/2012 - new ADJ Discuss, visibles and address address address address address address and results and the property of the proper	
Fig. 1 Speak of Exemption (1997). The planed Ex infrastructure is complex. For Mules in Finding - 1072/2022 System Design	
Fig. 1 Speak of Exemption (1997). The planed Ex infrastructure is complex. For Mules in Finding - 1072/2022 System Design	
cadence of development teams. (1) 12/12/2013 - new 45) The new 450 presents and not schedule for the new 450 presents and not schedule which could lead to applicat review and activated leadbay. NV kicieff. (1/31/2023 - Net Completed) continues to evaluate the schedule and activities, focusing on consistency between these the between the two pages of the present pres	
The planes BES infrastructure is complex for the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the level of effort to implement and manage the complexities of the BES of the BE	
The planned BET infrastructure is complex Fors, Michael Finding 10/28/2021 System Design Current All infrastructure plans include a significant number of fit level of effort to implement and manage the complexities of the BES - All develops a process to closely monitor cloud and other product changes. Next several 2 2 Low Ope 8/3/123.2 TBS 178-2 TBs 178-	
The planned Bissificant structure is complex Fers, Michael Bissificant Com	
which could be difficult to implement and Risk sophisticated components that make up a complex cloud infrastructure. Infrastructure is not accurately accounted for and staffed by the ASI, the (software updates/new releases), manager changes, and repression test once months event logating tool. The workly Architecture/Infrastructure coordination	
lead to schedule/cost impacts. Further, the Project Team has vet to finalize components that will make up groject could be met with unexpected costs and schedule delays. Delays in updates are applied, * The project team work to establish strong governance meeting appear to be productive, and the ASI reports that no additional	
the BES infrastructure and the additional costs and time to configure, text, finalizing the components being implemented could exacerbate this risks over the utilization and maintenance of the various system changes are planned for the BES infrastructure. NV will continue to monitor	
and implement the planned complex environment remain unclear. and inset further delays. Complex plantforms of this product proof of this finding and look for 40 progress in addressable in concepts of the same in the schedule to conduct proof of this finding and look for 40 progress in addressable in the control proof of this finding and look for 40 progress in addressable in concepts to assess in the schedule to conduct proof of this finding and look for 40 progress in addressable in the control proof of this finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of this finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 progress in addressable in the control proof of the finding and look for 40 proof of the finding and loo	
mammature and operations channings as system changes on no time to concept to assure intrastructure (emponents used as a finite system fluiding (e.g. does the fluiding and conditions and stream event of the six as a finite system fluiding (e.g. does the fluiding and conditions and stream event of the six as a finite system fluiding (e.g. does the fluiding and conditions and stream event of the six as a finite system fluiding (e.g. does the fluiding and stream event of the six as a finite system fluiding (e.g. does the fluiding and stream event of the six as a finite system fluiding (e.g. does the fluiding and stream event of the system stream event of the system fluiding (e.g. does the fluiding and stream event of the system even event of the system event o	
"moving parts") and increase the level of time and effort to resolve unexpected delays that could delay project milestones and the critical path. and approved by DHS. 6/30/23 - The ASI has made progress with key	
infrastructure and application-level bugs. Further, some components infrastructure components	
remail in an immature state compared to their legacy counterparts. For masking (using Beliphis) of legacy counterparts. For	
example, the project recently experienced a system failure because Google components play a crucial role in improving the testing process, and this	
Coud failed to clearly communicate and hange that led to failable in another Groupsome (E.e., New Journal Could Could failed to Clearly Communicate Could failed to Clearly County Coun	
product offering, compared to their visible (Menzine Med Services, Microsoft Asyrol, RMV remains enter their visible (Menzine Med Services, Microsoft Asyrol, RMV remains enter their visible (Menzine Med Services, Microsoft Asyrol, RMV remains to their visible (Menzine Med Services, Microsoft Asyrol, RMV remains to their visible of their vis	
Azure). W&V remains concerned that this could lead to failures at critical previously. NV continues to observe productive discussions and details of	
points in the project (including post go live production failures) that could architecture progress while participating in the weekly project. Architecture	
be difficult to receive and lead to project disruption. If DITs intends to extend the control of	
eventually recurs that customing costs stumped and custos to state eventually recurs that customing cost stumped and custos to state eventually recurs that customing cost stumped and custos to state eventually recurs that customing cost stumped and custos to state eventually recurs that customing cost stumped and custos to state eventually recurs that customing cost stumped and customing cus	
familiar with in a complex infrastructure components have been acquired or licensed. The ASI carried	
out Proof of Concepts (POCs.) for components such as Big Query and the	
audit framework. However, it is uncertain whether other POCs will be	
performed to mitigate the potential complexities of implementing multiple	
components when to make a service of the components will be component to the component of t	
manage garagement of the contract of the contr	
progress on the buildout of their Devicys automation scripts that will allow	
them to manage the cloud environments more easily. Additional BES	
10 Insufficient configuration management First, Michael Finding - 8/23/2011 Configuration and The Birl 600 Pirst Deliverable, Section 3.2 established between deformation Management tax as test of processes and pr	9/9/2021 - RAP- We
could lead development confusion and Risk Risk Risk Risk Risk Risk Risk Risk	9/9/2021 - RAP: We look forward to
recover our encurrences or services for security or se	receiving specific
projects Security Plan has well to be finalized which may include additional with accurate dynamic and timely information on some of the configuration. ASI work to clarify/solidify plans for the potential use of configuration.	inquiries from the
requirements or decisions that could impact CM. The project currently Rems. However, it is critical that DHS/ASI agree to the full list of items that management tools. COMPLETED = Identify the DHS POC for the ServiceNow, will be building up instances. Organize support and main.	IV&V team on
relies on Github for tracking of some configurations. are included in the configuration plan along with the details regarding the Configuration Management Activities that would provide oversight of Dont' think still a risk, IVV to discuss. 4/30/2023 - The ASI finalized the	configuration
management of the configuration items, reporting and audit features. configuration items, reporting and audit features. configuration items, reporting and audit features. configuration management of the configuration management of the project. \$1/31/2023 The are being followed, are effective, and as sure elevine (DRI X-0) actions to YM. All is current (No. MI) in the project. \$1/31/2023 The are being followed as a sure elevine (DRI X-0) actions to YM. All is current (No. MI) in the project. \$1/31/2023 The are being followed as a sure elevine (DRI X-0) actions to YM. All is current (No. MI)	management and having conversations.
at a congruence, are criecture, and are dumenting turns subjectives not circ. And to cut morning remainance general conference control of the control of the conference contr	We do acknowledge
be using SX and the level of configuration management they intend to	that the plan likely
perform has set to be determined 7/78/2023 The new ASI intends to	needs to be updated
utilize ServiceNow (SN) for most configuration management tracking.	to reflect the
Details of exactly how they'll be using 5% and its multitude of modules and	processes in place on
capabilities remain unclear. J/31/2023 - Archivy in the reporting principle of the property and the reporting principle of the re	the project for configuration
related project activity has begun. 12/31/2022 - No material update in the	management.
reporting period as the work stoppage continued and the new ASI conducted	
restart planning, IVV will reassess this finding and our associated	
recommendation scale the way of the size o	
the reporting period as the way of high and the read of the read o	
regarding this finding due to the work stoppage and ongoing transition to	
the new ASI. IVV will reassess our recommendations for this finding once	
more is known. 09/35/22 - The ASI announced the departure of key	
resources include region and any analysis of the contract of t	
aware of the plans to mitigate this risk. R8/30/27 - The ASI undated the	
77 The Americans With Disabilities at JADA Tan Ruan Finding 7/12/2021 Testing While R03 and 80 4 reported that Section 900 consistence but his associated during 1 2023 and will continue through	
Section 508 compliance tool has not been Risk successfully completed the ASI confirmed that there is currently no working compliant to obtain State and Federal funds for the development of the BES. communicates how and orior to final February 2, 2024. The ASI developed 6 User Journeys and executed 3 tests	9/9/21 - RAP: The ASI
Installed or the Project, which may cause tool installed and that Section 508 compliance testing has not been using the Usablemet tool, which successfully produced reports and results.	has invited the IV&V to
significant rework. performed. This risk has been discussed with the ASI over the past several technology accessible to people with disabilities (e.g., color blindness, compliance will be addressed/corrected. The ASI is using these tests and reports to address ADA issues and defects. In	make contact with the development team to
months, but there have been evidence of results to dark. He Sud distante wison and health be large dissibilities, in a way that is comparable to the access reports from the ADA tool execution and explain how to interpret the addition, the ADR additions, the AD	development team to review the results of
that they are coding to some of the ADA requirements and are using a debs. available to other. For of the system acceptance cottens for efficient points, the contract of the ADA requirements and are using a debs. available to other. For of the system acceptance cottens for efficient points, inc., we then the contract to the state of the ADA requirements and are used to the state of the ADA requirements and are used to the state of the ADA requirements and are used to the state of the ADA requirements and are used to the ADA	the desk-top tool to
any data to demonstrate the desk-top tool results nor if it provides coverage. Including without limitation the Electronic and Information Technology defined. Despite the ASI's previous report of conducting an assessment in	gain insight. To date,
for all ADA compliance items. Accessibility Standards associated with Section 508 of the Rehabilitation June and identifying 28 defects, those assessments were merely trial runs	the IV&V has not
Act, which was verified in the ASI proposed Technical Requirements and did not provide any significant value. The ASI plans to commence formul	contacted the
Approach that states The system complies with DRS branding standards as defining by CRS branding standards as defining by CRS branding standards as defining by CRS and descriptions to URC level 2 consciouslible guidelines, support to URC level 2	development lead to have further
central year of action of the Americans will protect the Americans will pro	discussions on this
nondiscrimination safeguards in 45 CFR 85." if the Hawaii guidelines design/development activities and conduct manual testing. 6/30/2023 - The	topic.
(https://www.hawaii.edu/access/uh-guidelines-for-access/billhy/), PHS ASi conducted an assessment using the ADA compliance tool in June and	
Guideline, from the 90 Handbook, and contractual diligitions to adhere to	
the section SEX compliance guideline (https://pexctionSEX gov/) there may be scientificate from the section of the report of the results of the scientificate from the scientificate fr	
ADA compliance is unpersocary at this time. Although the ASI appears to be	
actively engaged in ADA testing. ITV is concerned with the decision to	
provide stakeholders — the Add the system provides stakeholders with a better understrate based on the Add testing process and the Add testing process and the Add testing process and the Add testing provides and the Add	
process. 5/31/2023 - The ASI is preparating to assess the BES syntem using	
the selected ASA. Compliance tool and part of pullback tool and part on pullback the first compliance to the pullback tool and part on pullback tool and part of pullback tool and part of pullback tool tool and part of pullback tool and part of pullback tool tool and part of pullback tool and pullbac	
sex resources donument, and a service services and a service service services and a service service services and a service service service service services and a service service service service services and a service service service services and a service service service services and a service service service service services and a service service service service services and a service service service service service service services and a service s	
automated compliance testing, 3/31/2023 • The ADA compliance tool	
currently used within DIS does not work the BES architecture. The ASI is	

2

		Finding	Identified					Analust	Finding			
ID Title	Reporter	Type	Date Category	Observation	Significance	Recommendation Event Horiz	on Impact Probabi			Status Undate Client Co	Tomments	Vendor Comments
63 The lack of early planning and coordination		Finding -		The following planning and execution items have not yet been addressed		OPEN 5. Complete all MOAs and obtain formal approvals. 6. Confirm testing Q3 2023	A A	2 Med	Open	08/31/2023 - The ASI determined that some of the previously closed	Commence	Vendor Commence
with interface partners may result in	Mark	Risk	Interface	and documented by the ASL- Connectivity is planned to utilize a presently	the tasks and activities to successfully implement data sharing. A clearly	dates with interface partners in writing. 7. Complete early proof of concept				MOAs/MOUs may have expired or will expire, therefore, all MOAs and		
schedule delays.			Management	undefined ETS API Gateway; however, there is no evidence that details have	defined communication plan and schedule that includes the coordination,	interfaces to avoid unexpected delays due to external organization				MOUs are being reviewed and re-verified by DHS. This process is not		7/20/21 RAP - The ASI
				been determined or documented in this regard. There is little evidence of		miscommunications or their own internal delays in assisting the BES project.				expected to create any roadblocks or schedule delays other than the		team requests that the
				active and sufficient communication with interface partners for	the risk of potential delays. In addition, after planning has been completed,	8. ASI and DHS conduct a root cause analysis to determine the reason FDDs				manpower diversion required to resolve the MOA/MOU statuses. During		IV&V reassess the
				coordination, design, and testing activities (Unit Test, SIT, UAT). Interface	interface partners will have to be available during interface implementation	were changed without DHS knowledge. COMPLETE 1. Establish a				the August 14th interfaces meeting, the DHS raised concern that the		severity of this risk in
				planning and execution tasks and activities, including those for interface	to ensure that the interfaces are properly developed and tested before	communication plan for each interface partner for the duration of the BES				Interface Functional Design Documents (FDDs) have changed and no longer		light of the following
				partners, are neither resident nor managed within the Project Schedule.	deploying the system to production.	DDI activities. COMPLETED 10/29 2. Identify and document all interface				reflect designs made during the 2020-2022 timeframe. IVV is concerned		reasons: a) the ATC
						partners' contacts. COMPLETED 3/31/2022 3. Define a release schedule for				that the designs changed without DHS involvement and may require rework.		schedule extension
						each interface to include milestone dates, coordination, and execution and				DHS and IVV are awaiting the ASI response as to why the designs changed		has made the urgency
						share with the interface partners. COMPLETED 01/04 4. Determine which				and what corrective actions are necessary. 07/24/2023 - The ASI and DHS		for tackling these task
						deliverable will include the details associated with the planned connectivity				are working to complete the remaining two interface agreements (DLIR and		less than it was before
						and detailed technical designs of all interfaces. COMPLETED 01/04				DoTAX). Work is proceeding to review and update all 22 Interface Control		that started lessening
										Documents (ICDs). None of these interfaces have been fully reviewed and		the schedule risk, b)
										updated. Furthermore, none of the interface technical design documents		the increase from
										have been completed. IVV will continue to monitor the ASI efforts toward addressing our recommendations. Release 12 development ends on October		Medium to High in May was based on a
										5. 2023: there is little time left to complete the outstanding work. IVV has		may was based on a misunderstanding of
										raised the Criticality Rating to "Medium". 06/29/2023 - The ASI continues to		the current state of
										ramp up interface activities, with most of the effort occurring in Release 12.		the MOA's and contac
										The two remaining agreements to be completed are DoTax (Department of		metrics, c) substantial
										Taxation) DLIR (Department of Labor and Industrial Relations) The ASI is		progress has made
										creating the Interface Control Documents (ICD), which includes six in initial		against each of the In
										draft status, with the remaining ICDs either in process or submitted. IVV will		Progress
										continue to monitor the ASI efforts toward addressing our		recommendations,
										recommendations. As previously reported, Release 12 development ends on		and it continues to
										October 5, 2023, and there is little time left to complete the agreements		trend in the right
										and gain partner input/confirmation on testing and implementation dates.		direction. In regards to
29 Uncertainty and/or a lack of communication	on Fors, Micha		5/28/2019 Project			OPEN - The ASI continue to make updates to the BI-12 System Architecture ASAP	2	2 Low	Open		2020 - Combined application is still planned. App still not finalized by	
around long-term architecture decisions		Issue	Management	system architecture decisions have not always been clearly communicated		Deliverable with additional details as they become available and with any					rom Arch perspective, we are building in Liferay. Future Integration	
could impact the project budget, schedule,					d available. These architecture plans and future state designs and capabilities						portals is still to be determined, but is not more complex than	and DHS continue to
system design, and planning decisions.					I should be thoroughly vetted by a broad base of relevant stakeholders and	perform due diligence in any recommendation for foundational architecture					lly planned for data sharing. If change is made to Adobe, this would	
				instances (one for KOLEA, one for BES) in a timely manner, and the decision was not immediately reflected in the project change log or the project	 available experts and broadly communicated to relevant stakeholders as soon as possible. Architecture plans and changes that are not effectively 	change decisions and continue to review with appropriate DHS stakeholders to assure a common understanding of the implications of these decisions.				review in the month of September. 7/31/23 - The project considered require a changing correspondence tools from Inspire to Google AODocs but recently	a CR.	for the two portal vision. We expect that
				decision log. Further, the details of the rationale for this decision or the pla		The Project should continue to ensure communication between				decided to stay with Inspire. IVV will continue to monitor for broad		final decisions will
				for integrating the two instances were not immediately and/or broadly	infrastructure tools, governance for these tools, and important	development leads and architecture leads to assure optimal collaboration				communication of architectural/tool decisions to relevant stakeholders. The		likely be made during
				communicated.	capabilities/features of these tools are not clearly communicated to	on possible architecture changes that could impact decisions in each area.				Project is making progress in clarifying key architecture decisions.		this reporting period
				Communication.	development teams, they may have to rework their designs once they realize					6/30/2023 - The project is making progress in clarifying key architecture		and communicated to
					more advanced platform capabilities/features are available after	details and clearly communicate out to stakeholders and project teams.				decisions. One notable decision that has been announced and approved by		the project. The ASI
					development planning has completed.	Complete 3/31 CLOSED - Maintain current communication processes to				DHS is the implementation of the two-portal strategy as part of the		refers the IV&V to our
						ensure regular communication between the architecture team and the rest				statewide rollout, rather than including it in the earlier pilot release.		February update
						of the project team to assess impacts of architecture decisions to the				5/31/2023 - Med-QUEST Division (MQD) leadership expressed there is		regarding
						Project. CLOSED 11/30/2022				ambiguity on the 2-portal scope-of-work and features (e.g., KOLEA		Recommendation #3.
										integration with BES). The ASI plans to meet with MQD and other		From our perspective
										stakeholders to resolve any confusion and will include a broader MQD		all necessary actions
										audience in future MQD/Benefit, Employment, and Support Services Division		are complete. If the
										(BESSD) collaboration efforts. 4/30/23 - No material update in the reporting		IV&V does not believe
										period. 3/31/2023 - The ASI continues to reevaluate previous infrastructure		it is Complete we
										decisions and is recommending other tools they have deemed a better fit for		request supporting
										this project. Uncertainty remains around the use of some tools including		detail.
										ServiceNow (SN), Splunk, and Chronicle. The ASI will go live with their interlinked 2 portals (BES and KOLEA) strategy but may initially go live with		4/23/21 rap - The ASI
										less functionality than originally planned and/or communicated.		and DHS continue to
										2/28/2023 - The ASI has made efforts to clarify the scope of BES 2023 in the		refine the final plan
										recent Agile training sessions. There remains some uncertainty around the		for the two portal
										use of ServiceNow (SN) and the tools that will be utilized for eGRC.		vision. We expect that

3