

#### OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

P.O. BOX 119, HONOLULU, HAWAI'I 96810-0119 Ph: (808) 586-6000 | Fax: (808) 586-1922 FTS 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 <a href="http://ets.hawaii.gov">http://ets.hawaii.gov</a> (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**



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**

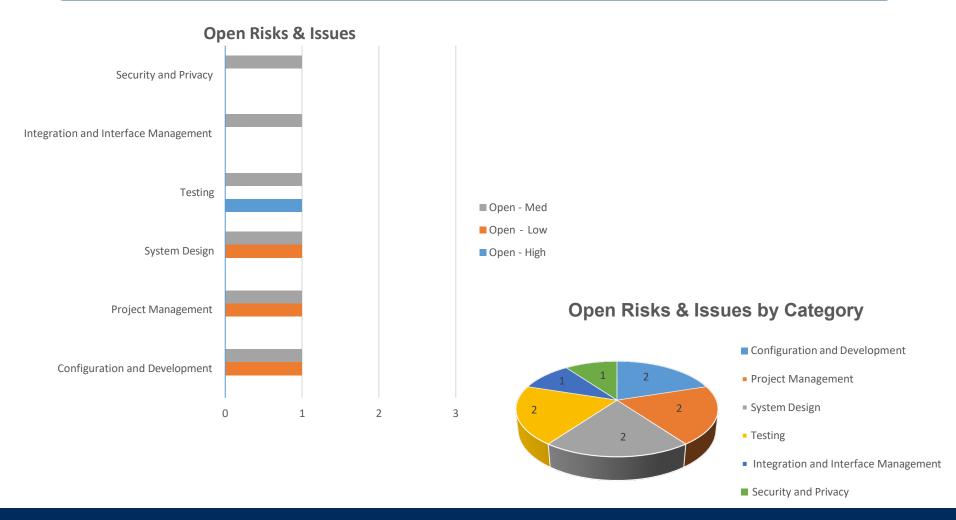


Jun	Jul	Aug	Category	IV&V Observations	
M	M	M	System Design	The decision to conduct the Sprint demos via recordings rather than allowing for in-person attendance raises concerns for IV&V. An increased opportunity to miss critical details and asynchronous communication may lead to delays or missing functionality.	
L	M	Configuration and Development  Configuration The ASI reassessed the scope of Release 12 which led to the request for an 8-week extension to complete the release development.		'	
L			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	Н	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			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.	



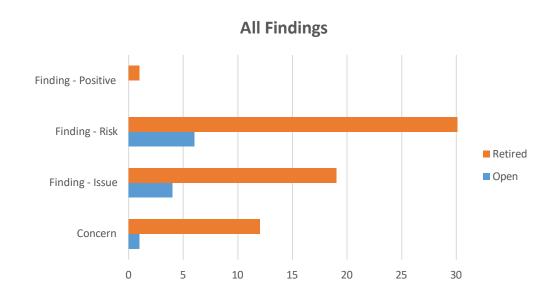


As of the August 2023 reporting period, PCG is tracking 10 open findings (6 risks, 4 issues) and has retired a total of 68 findings. Of the 10 open findings, 1 are High, 6 are Medium, and 3 are Low.





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	
<ul> <li>Conduct lessons learned session to incorporate into FAT, including updates of all processes, procedures, roles and responsibilities</li> </ul>	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**

7	#	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.	
2	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		
<ul> <li>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.</li> </ul>	In process	
<ul> <li>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.</li> </ul>	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
<ul> <li>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.</li> </ul>	Not Started
<ul> <li>ASI plan and execute Epic development so that Epic demos can occur earlier in the release schedule and allow time for possible revisions.</li> </ul>	In process
<ul> <li>ASI hosts a bi-weekly meeting with DHS and IV&amp;V to review all changes to the project schedules (Primary and DDI).</li> </ul>	Complete



## Integration and Interface Management

#	Key Findings	Criticality Rating
	Risk – The lack of early planning and coordination with interface partners may result in schedule delays.	
63	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.	M
	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
<ul> <li>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.</li> </ul>	Not started
<ul> <li>ASI and DHS conduct a root cause analysis to determine the reason FDDs were changed without DHS knowledge.</li> </ul>	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
<ul> <li>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.</li> </ul>	In process
<ul> <li>ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track.</li> </ul>	In process
<ul> <li>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.</li> </ul>	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

Recommendations	Progress
<ul> <li>DHS request the ASI strategically add the right project team resources to effectively increase velocity. No 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.</li> </ul>	
<ul> <li>ASI effectively track and regularly provide DHS (potentially via the weekly DDI status meeting) with an accurately (e.g., story points per day/week/month) and assure that the current velocity is accurately and consistently reflected in the project schedule.</li> </ul>	ccurate In process
The ASI should provide DHS with the time needed to effectively evaluate the software demonstrations (d and elicit productive design discussions with DHS attendees during each demo.	lemos) In process
<ul> <li>ASI reviews the development process and identifies and mitigates the challenges preventing them from incorporating Epic demo activities into the project schedule.</li> </ul>	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	
<ul> <li>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.</li> </ul>	In process
<ul> <li>The project team work to establish strong governance over the utilization and maintenance of various tools/components.</li> </ul>	In process
<ul> <li>ASI allot time in the schedule to conduct proof of concepts to assure infrastructure components work as expected.</li> </ul>	In process
<ul> <li>ASI maintain a detailed schedule for DevOps implementation tasks to avoid unexpected delays that could delay project milestones and the critical path.</li> </ul>	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.	
86	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	
<ul> <li>Include a wide enough audience in all design and demo sessions to validate FNS and DHS functional and technical requirements and system usability.</li> </ul>	In process
<ul> <li>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.</li> </ul>	In process
<ul> <li>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.</li> </ul>	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.	
67	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	Progress
The ADA tool meets contractual and project requirements.	In process
The ASI communicates a plan for ADA test execution.	In process
<ul> <li>The ASI communicates how the tool will be used to report compliance and non-compliance and how non-compliance will be addressed/corrected</li> </ul>	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

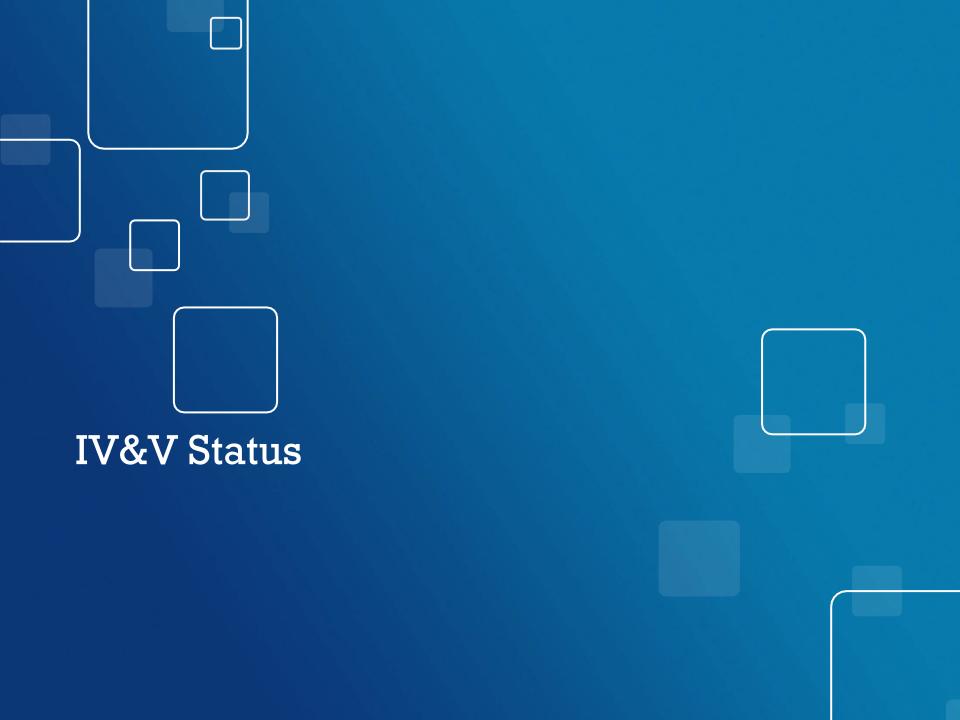
Recommendations	
Monitor SIT closely for both breadth and depth of testing to ensure the system is adequately to	ested. In process
The project team reviews the SIT exit criteria and revises them as needed to ensure UAT begins system possible.	ins with the best In process
<ul> <li>The ASI should determine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

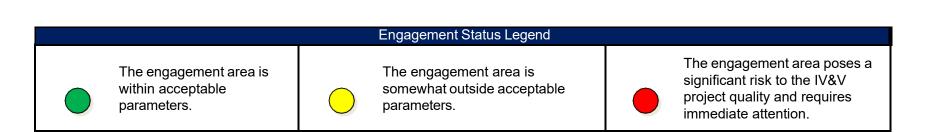
Recommendations	Progress
Determine when the infrastructure design baseline will be completed.	In process
Determine when documentation will be created, updated, and available for the SSP authors.	Not Started
<ul> <li>Collaborate and communicate with SSP authors about when reliable and correct documentation will be available.</li> </ul>	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				



#### **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

## <u>Additional Inputs – Artifacts</u>



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

## Ending Slide



**Solutions that Matter** 

ID Title	Finding	Identified	Observation	Senfrance	Recommendation	Event Horizon	mort Bookeld	Analyst Ity Priority	Finding	Status Hodate	Client Comments	Vendor Comments
Up the Section of the	Finding - Issue	Elle Category 8/1/2023 System Design	concerns raised by the DHS testers regarding the usability of the BES system,	provide all functionality found in current applications – but really should provide additional capabilities, greatly enhanced user interface, and overall improved usability from current systems. Should the solution fall short of	Include a wide mough sudered in all design and demo sessions to indicate in the control of the c	Now In the second In the secon	4	2 Med	Open	\$\frac{\pmathcal{E}}{\pmathcal{E}}\$\frac{\pmathcal{E}}{\pmathcal{E}}\$\text{if in Original conduct in person Spirit Deeps with \$\pmathcal{E}\$\$if in Original Conductions of Conductions of the Spirit Original Conduction of Spirit demon without any DEE participation could limit rather than enable the Spirit Original Conduction of Spirit demon without any DEE participation could limit rather than enable the Spirit Original Conduction of Spirit demon without any DEE participation could limit rather than enable DEE spirit Original Conduction Spirit demonstration of Spirit demonstration of Spirit Original Conduction of Spirit Original Conduction Spirit Original Conduction Spirit Original Conduction of Respirator Academy of Spirit Original Conduction Spirit Original Conduction of Respirator Original Conduction Spirit Original Co		OBJ01/2023 As 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.
The convertible approach and planning may Tan, flyan not be complete, which increases the likelihood of missing UAT timelines.	Concern	6/29/2023 Testing	the Project appears unprepared for fieldess 11 U.H. Tor example, new testing processes, including a Team tisse strate, are not fieldly developed. While beats overflow understanding exists, test team members raised many expections about testing processes, and one scenarios and defect flows remain undefined. The Project team reported they will refine these processes during UAT.	Without a defined and developed LNT approach and resource plan, there is a posterial in kin directing LNT tendines in converse, the STL LNT dhase does not fall white the critical parts of the project, and a delayed completion or the state of the state	Testing (FA.1), including updates of all processes, procedures, roles and responsibilities. Testing resources easy from FA Tegins and with through end-to-end scenarios. Toesdeg contingency plans if Belease 11.1 URT does not proceed as glanned Conduct comprehensive FAT planning.	UAT	3	1 low	Open	R/IJ/2021—The project is applying Release 11 UAT Lessons Learned to plan for the Final Acceptance Test (FIAT). A perform Cest (FIAT) as Appendix to the Object Team update the project schedule to accommodate the Awest BES visit (FIAT) and the Cest of the Cest		
ss July in intercoverge and sover-man- appecting pregion in testing may result in sub-field disky if subsequent test phases the sub-field disky if subsequent test phases feedback than initially anticipated.	Hilding - Issue	WZZALES TORONG	progress of festing might be lagging. Concerning testing coverage, it against the did eight and use care in \$11 he was outside text cases or are with the did eight and the control of the	exempting elements using visit for elementary testing, at its innover secure.  It also an order effective the early testing stage, if there is also any progress or incomplete setting in the early stage, it can result in elementary testing at the early stage, it can result in elementary testing elementary elem	processes to confirm early testing is adequate before entering if A.F. on IS and All amounts (MTA) closely for both resetting and edges of lesting in an add append festing in a confirmation of the confirmat	UAI	4	4 regn	Open	and omefficiencies  and omefficiencies  in the control of the cont		use and acess No mentioned and No mentioned and decision for 80.12 decision for 80.12 received by USS despite the defects being referenced.
12 The lack of technical documentation may. Metallh, Custin laud to incorrect implementation statements or delay the System Security Plan	1 Finding - Risk	4/27/2023 Socially and Prisacy	supporting the SSP is unavailable outdated or in a draft form. During April	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 \$2023 when the full \$5 P is scheduled for completion and approval prior to prior to prior prior to prior to prior p	3	3 Med	Open	OUI/J.122.3.4 At the end of August 2023, a majoriny of the Si controls from the base SSP were conflicted. While the Scene Indicate is used design, only 20 implementation statements to determ written for the 1.53 IRS-complex indicates the second of the 1.53 IRS-complex indicates the complex indicates the complex indicates the resultance implementation statements for IRS-specific controls—one with the restinder project in-child. Or/J.122.02.3. The SSP Authors have almost complexed the similar set of controls for the base system security glass. While we extended project is child. Or/J.122.02.3. The SSP Authors have almost complexed the similar set of controls for the base system security glass. While it is considered to the similar set of controls for the base system security glass. While it is considered to the similar set of controls of the security glass. While it is considered to the security glass is the security glass. While it is considered to the security glass while the secur		
80 Development delaps codd regatively impact. Fors, Nichael the propert inhealde and delay go live.	Finding - Rok	6/36/2022 Configuration and Development	ASI had prokessly in posted development activities have been closed at they have been until the scakes and of mattern their expected development velocity. Previously, the development team was challenged with accurately extending development take led of effort (as, story points) and the project has been challenged with producing a project valuable that accurately extending development teamines (see threship affect). The accurate that the scale of the challenged with producing a project valuable that accurately extending the scale of efforts (as the scale of t	milistions, schedule delays may lead to a delayed system go-live data. Pallaure to achieve and off carcary in eliminaring development tasks could lead to a project schedule that is flamed and unrealistic. Pervisously, IEG and indirectude, and fivil yameet, historism of these delays were due to some ASIBAL lessing the experitive required to create optimal elegiss and systems expectification that developes could consume without requiring extensive careficiation from the ASIBA/S Name. Dels and IVV between of instances consistent of the constraints of the const	ORDs. 10 Separate has All standages, and all the right a rejet in term concerns or efficiently increase relect, how feet a design additional layer resources may not be an efficient as staffing additional layer level development, analysis, and development analysis and devel resources may called a self-section as the called and memorar point resources. Adjuste the ASI efficiently read and regularly provide DRG control of the	immediate	3	3 Med	Open	A SIJA22. The pales gainly and the has been extended by 2 months. The ASI reported that analysis of the Balesa 22 Goodponer effort made 3 reported that analysis of the Balesa 22 Goodponer effort made 3 reported that analysis of the Balesa 22 Goodponer effort made 3 reported that analysis of the SIJA22 GOODPONER of the SIJA22 GOODPONER of the SIJA22 GOODPONER of the SIJA222 GOODPONER OF THE SIJ		

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The state of the s	Finding ID Title Benorter Type	Identified	Observation	Serificance	Recommendation F.	Event Horizon Impa	Analyst sart Prohability Priority	Finding Status	Status I Indate	Flient Comments	Vendor Comments
The state of the s	74 A BES Project schedule based on inaccurate Molina. Brad Finding -	11/29/2021 Project	DHS and the ASI have tried multiple times to rework the schedule with	If estimates for project schedule activities are not accurate this can lead to	OPEN Monitor, evaluate and revise scheduling estimates for accuracy. As In	Immediate	4 2 Med	Open	8/31/2023 - The 8-week implementation delay provides the project team		08/10/2023
Fig. 1. The property of the pr		Management			requested by DHS, add key milestones to the project schedule, such as Sprint			.,	with additional time to develop and test the planned Release 12		
Service of the servic	and resource management, which could	-		nished activities, and general frustration which can lead to schedule delays	and Epic demos, to show key progress towards completion of Epics, ASI plan				functionality, including work that was moved from Release 11. Addressing		
Service of the servic	result in late deliverables, cost increases,		of multiple tools to track resources obfuscate resource management.	low quality output, scope changes, and budget issues.	and execute Epic development so that Epic demos can occur earlier in the				IVV recommendations for this finding could further remediate risk to the		
Service of the control of the contro	and a late go-live.		Previous IV&V findings focused on specific schedule components such as		release schedule and allow time for possible revisions. COMPLETE DHS and						
And the second control					the ASI agree to a revised schedule against which project deliverables can be				reducing development and testing efforts in the schedule for Release 12 as		
Service of the control of the contro			addressed and closed.		managed. (2/28/2023 - complete) ASI host a weekly meeting with DHS and						
The state of the control of the cont					IVV to review all changes to the project schedules (Primary and DDI).				in providing a BES project schedule to DHS that reflects major revisions to		continue to be posted.
The part of the second control and the second											
A plane of the second property of the second					with the current go-live date will not result in major implications. (6/29/23)				for any risks that might impact the Project's ability to plan and execute		
Service the second control of the plant of t					estimates if peeded. Leurage valority and burn down charts to adjust				upcoming work. 6/30/2023 - ASI updates to the schedule that resulted in a		
Property of the property of th					development tarks estimates if needed (4/20/2022 - ASI using list) Using						
The state of the s					the available tools, review the current estimates to complete each activity				integration tecting coriots (1.5 months in total duration) were removed. Yet		
A control of the property of the control of the con					compared to past actual hours (1/31/2023 - new ASI - Not Started) Update				a significant amount of the scope of work was moved from Release 11 to		
The second process of the control of					as necessary and provide the DHS/ASI Project Managers with reports and				Release 12, and work was moved out of Release 12 to post-Go-Live. DHS		
Metal Calculations and					data that accurately reflect the DHS/ASI resource needs along with				and IVV are uncertain how the ASI determined that they would complete		
Separate services and services and services are serviced as a service service and services are serviced as a service and service and services are serviced as a service and service and service and services are serviced as a service and service and services are serviced as a service and service and services are serviced as a service and service and service and services are serviced as a service and services are serviced as a service and service and service and services are serviced as a service and service and service and services are serviced as a service and									Release 12 scope with the reduced amount of time and have asked the ASI		
And the plant and property of the property of					new ASI - Not Started) Develop mitigation and contingency plans that are						
Company of the comp									exceed the capacity of the development teams, potentially pushing out key		
Service designation of the control o					risk of being behind schedule which includes resource management.						
The production of the control of the									assess current activities and timing for development and testing, verifying		
Service of the control of the contro					inscrurate estimates such as over reliance on POs slow design society and				they align with the current schedule. The ASI published a calendar for the		
The Transferring Continue of the Continue of t					cadence of development teams. (2/28/2023 - new ASI) The new ASI presents						
Service and successions and successions are consistent of the succession of the succ					a draft schedule for DHS review/feedback in advance of the project restart						
The property of the property o					kickoff. (1/31/2023 - Not Completed)				continuer to evaluate the schedule and activities, focusion on consistency		
The part of the pa									between there two groups of the project progress 4/20/2022 - Late in the		
We will be the property of the	73 The planned BES infrastructure is complex Fors, Michael Finding -	10/28/2021 System Design	Current ASI infrastructure plans include a significant number of	If the level of effort to implement and manage the complexities of the BES	ASI develop a process to closely monitor cloud and other product changes. Nex	lext several	2 2 Low	Open	8/31/23 - The ASI has reported progress in the build out of Chronicle, their		
We will be the property of the	which could be difficult to implement and Risk	.,	sophisticated components that make up a complex cloud infrastructure.	infrastructure is not accurately accounted for and staffed by the ASI, the	(software updates/new releases), manage changes, and regression test once mo	nonths			event logging tool. The weekly Architecture/Infrastructure coordination		
A Part of the company	lead to schedule/cost impacts.		Further, the Project Team has yet to finalize components that will make up	project 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		
## Major company for the property of the prope				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. IVV will continue to monitor		
The second and interest and the second and the seco			and implement the planned complex environment remain unclear.	and lead to further delays. Complex platforms often present system	tools/components. • ASI allot time in the schedule to conduct proof of				this finding and look for ASI progress in addressing the recommendations.		
We will be a service of the company				maintenance and operations challenges as system changes can hold the	concepts to assure infrastructure components work as expected. • ASI				7/31/23 - The project recently onboarded a new ASI Enterprise Architect. As		
A CANAGE AND				increased potential for system failure (i.e., due to the significant number of	maintain a detailed schedule for DevOps implementation tasks to avoid				this is a key role on the ASI team a candidate and resume were presented to		
Mary				"moving parts") and increase the level of time and effort to resolve	unexpected delays that could delay project milestones and the critical path.						
THE MANUSCHICK PROPERTY OF THE CONTROL OF THE CONTR				minastructure and application-level bugs. Further, some components							
Company				remain in an immature state compared to their legacy counterparts. For							
The Section of the Control of the Co				Cloud failed to clearly communicate a change that led to failure in another					components play a crucial role in improving the testing process, and this		
The Section of the Control of the Co				component (i.e., Nexus). Google Cloud is generally viewed as a less mature					progress - riproves the Asi's author to create and maintain the BES		
A MANUAL PROPERTY AND				product offering, compared to their rivals (Amazon Web Services Microsoft					this risk and has remedied many issues and complexities introduced		
A MANUAL PROPERTY AND				Azure). IV&V remains concerned that this could lead to failures at critical					previously TVV continues to observe productive discussions and details of		
Service of the control of the contro				points in the project (including post-go live production failures) that could							
with the final control and experimental processing and interest to the control of				be difficult to resolve and lead to project disruption. If DHS intends to					meetings. Therefore, IVV has lowered the Criticality Rating from 'Medium'		
The state of the control of the cont				eventually reduce M&O outsourcing costs turning over M&O tasks to State					to 'Low'. 4/30/2023 - The ASI reports the Architecture & Infrastructure		
The state of the control of the cont				employees, they could face challenges supporting tools they may not be					activities at 19 percent complete. ASI also reported that all the required BES		
The billion of particular and production of the particular and production of the particular and				familiar with in a complex infrastructure environment.					infrastructure components have been acquired or licensed. The ASI carried		
The billion of particular and production of the particular and production of the particular and									out Proof of Concepts (POCs) for components such as Big Query and the		
To include the support of the control of the contro									audit framework. However, it is uncertain whether other POCs will be		
The substitute of the product of the									performed to mitigate the potential complexities of implementing multiple		
The substitute of the product of the									components which may interact with one another. 3/31/2023 - The ASI is		
The final configuration required  The fi									making updates to the BI-12 System Architecture deliverable to reflect		
A Transport of the property									recent changes and expects more changes soon. The ASI made good		
And the description for an order of the control of									progress on the buildout of their DevOps automation scripts that will allow		
And the description for an order of the control of									them to manage the cloud environments more easily. Additional BES		
See the first of the control of the	70 Insufficient configuration management Fors, Michael Finding -	8/23/2021 Configuration and	The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the	Configuration Management is a set of processes and procedures that	OPEN • ASI adhere to plans for configuration management as documented ASA	SAP	2 2 Low	Open	7/31/23 - No material update. 6/30/23 - No material update. 5/31/2023 -		
See the first of the control of the	could lead to development confusion and NSK	Development	Configuration Management Plan, however, it remains unclear if sufficient	ensures the BES is understood and works correctly. The BES solution	in Bi-6 DDI Plan, Section 5.2 and clarity details and/or any changes with DHs.				The ASI continues to make progress with its utilization of the ServiceNow		
Merchanic in the mail report of the could repo	reduce the effectiveness of defect resolution		progress has been made toward establishing LM processes and governance,	Includes tools that may provide a level of automation for Configuration	Asi validate plans for configuration management with DHS and agree on a				Configuration Management (CM) tool. They have recently performed an		
Merchanic in the mail report of the could repo			projects Security Plan has not to be finalized which may include additional	with accurate dunamic and timely information on come of the configuration	ASI work to clariful collidity plans for the notestial use of configuration				Configuration Management Database *** Continued work Setup in		inquirier from the
Fig. 1. The American Will District to the Control of the American Miles and proportion as supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion and the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and proportion as a supplied of the Control of the American Miles and propo			requirements or decisions that could impact CM. The project currently	Items. However, it is critical that DMS/ASI arres to the full list of items that	management tools. COMBLETED a Identify the DHS BOC for the				SeniceNow will be building up instances. Opening support and main		
engagement of the suffigurant ham, rigarding and add filling or injuried to the supplier of th			relies on Github for tracking of some configurations	are included in the coefficient ion plan along with the details regarding the	Configuration Management Activities that would provide questions of				Don't think still a risk BO/ to discuss 4/20/2022 - The ASI finalized the		
The first of the county with two quart gold and produced to the county of the county o			Tents on distablish tracking or some configurations.	management of the configuration items, reporting and audit features	configuration management activities and assure defined CM stens and plans				ServiceNow (SN) modules they will utilize for the project 3/31/2023 - The		
Septimber 19 1 And 19					are being followed, are effective, and are achieving DHS objectives for CM.				ASI is currently evaluating which Service Now (SN) modules will be the best		
Is any part of the first of the part of th									fit for the project and for DHS going forward. Details of exactly how they'll		We do acknowledge
See a service of the mean of the properties of t									be using SN and the level of configuration management they intend to		that the plan likely
See a series of the control of the c									perform has yet to be determined. 2/28/2023 - The new ASI intends to		
C? The American With Clusteries Ac (pill) The American Wi									utilize ServiceNow (SN) for most configuration management tracking		
For The American William Park Park St. 2 and Gargerous Treatment of Complete and American St. 2 and Gargerous Treatment of Complete and American St. 2 and Gargerous Treatment T									Details of exactly how they'll be using SN and its multitude of modules and		processes in place on
E? The American With Gualities Act [204]  Explicit research.  Expl									capabilities remain unclear. 1/31/2023 - Activity in the reporting period		the project for
## Add to engine reference with the first account of the first account o									concentrated on project restart tasks, and IVV will reassess this finding once	1	
Set The American MP Dublifier of 1/24 (2) Tang.  Set The American MP Dublifier of 1/24									related project activity has begun. 12/31/2022 - No material update in the		management.
## Company of the property of the foliage days the service support and agency as providing the foliage days the service support and agency as providing the foliage days the service support and agency as providing the foliage days the service support and agency as providing the foliage days the service support and agency as providing the foliage days the service support and agency as providing the foliage days the service support and agency as providing the foliage days the service support and agency as providing the foliage days the service support and agency as provided the service support and agency as a service support and agen									reporting period as the work stoppage continued and the new ASI conducted	d	
The Associacy With Country and Complete to the Section of the Country and Coun									restart planning. IVV will reassess this finding and our associated		
For the American With Displaces to the north part of the Completed to the									recommendations once more is known. 11/30/2022 - No material update in	1	
27 The Americans With Displaints Act (IAO). This Plan Rodge. Solid for report of the Contractable diligition on all reports of the Contractable diligition on al									use reporting period as the work stoppage continues and the new ASI		
Phe American With Daspites Act (AGN) 8 in Processing Completed the ACT completion and image reported the ACT											
47 The Americans With Disabilities Act (ADA) Society of Management for Management									the new ASI_TVV will reassess our recommendations for this finding once		
For The Americans With Disabilities Act (ACM) Fin Rym Section DSI compliance to the has not been Rik while 50 and 60 A reported that Section DSI compliance had been successful organization and requirement for BSI to be ACM sometiment or the project which way some supplication resourch.  The Rym Ridge Section DSI compliance to the has not been Rik while 50 and 60 A reported that Section DSI compliance had been successful organization and requirement for BSI to be ACM sometiment or the project which way some supplication resourch.  The Rym Ridge Section DSI compliance to the has not been resourced.  The Rym Ridge Section DSI compliance testing to some of the ACM compliance testing to some of the ACM resignation with the control in protein and resource and project requirements. The ACM social most being to some of the ACM recipies with the project compliance as in the ACM recipies with the resource and project requirements. The ACM social most being the social most being the act of the Section DSI compliance testing to some of the ACM recipies with the act of the project some of the ACM recipies with the act of the project some of the ACM recipies with the act of the project some of the ACM recipies with the resource and project requirements are the social position of the project some of the ACM recipies with the act of the project some of the ACM recipies with the act of the project some of the ACM recipies with the act of the project some of the ACM recipies with the act of the project some of the ACM recipies with the act of the project some of the ACM recipies with the act of the act of the ACM recipies with the act of the project some of the ACM recipies with the act of the act of the ACM recipies with the act of the act of the ACM recipies with the									more is known. 09/29/22 - The ASI announced the departure of key		
The product of the complete feature of the complete fe									resources including their lead CM strategist, which could exacerbate this		
For the Americans With Disabilities and Endougher than 1 feeting and the first of the completance had been successfully project may be a second project may be a first of the											
Section 508 complance to bias not been in successfully completed the ASI confirmed that there is currently now worling tool instantiate and for sections of the confirmed that there is currently now worling and that Section 16 reformed in the first of the development of the asis. The ASI developed is law to present the confirmed that there is manufacture and information to the confirmed that there is manufacture and information that the section is a section of the									aware of the plans to mitigate this risk. 08/30/22 - The ASI updated the		
Section 508 complance to bias not been in successfully completed the ASI confirmed that there is currently now worling tool instantiate and for sections of the confirmed that there is currently now worling and that Section 16 reformed in the first of the development of the asis. The ASI developed is law to present the confirmed that there is manufacture and information to the confirmed that there is manufacture and information that the section is a section of the	67 The Americans With Disabilities Act (ADA) Tan, Ryan 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 si	soon as possible	3 3 Med	Open	8/30/2023 - ADA testing started August 1, 2023, and will continue through		
significant rework. The risks been discussed with the Abs been configurable and it will be addressed contracted. The Abs provides Instity/Wil and the Abs of the abs been configurable and it will be addressed contracted. The Abs provides DRF/Wil and the Abs of the abs been configurable and it will be addressed provides to the abs	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 a plan for ADA test execution The ASI communicates how an	and prior to final			February 2, 2024. The ASI developed 6 User Journeys and executed 3 tests		
significant rework. The risks been discussed with the Abs been configurable and it will be addressed contracted. The Abs provides Instity/Wil and the Abs of the abs been configurable and it will be addressed contracted. The Abs provides DRF/Wil and the Abs of the abs been configurable and it will be addressed provides to the abs	installed for the Project, which may cause		tool installed and that Section 508 compliance testing has not been	The ADA Section 508 intent is to make electronic and information	the tool will be used to report compliance and non-compliance and how non so	solution			using the Usablenet tool, which successfully produced reports and results.		
top bot for ABA compliance as an interim solution. What not received  she deside top bot for the compliance as an interim solution. What not received  she desides top bot for a the compliance as an interiment of the compliance as an interiment of the fine the popular research or in the she has been posed for the compliance of the she has been posed for the she has been posed for the compliance of the she has been posed for the she has been	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,		acceptance.			The ASI is using these tests and reports to address ADA issues and defects. In	1	
top bot for ABA compliance as an interim solution. What not received  she deside top bot for the compliance as an interim solution. What not received  she desides top bot for a the compliance as an interiment of the compliance as an interiment of the fine the popular research or in the she has been posed for the compliance of the she has been posed for the she has been posed for the compliance of the she has been posed for the she has been			months, but there have been evidence of results to-date. The ASI did state	vision and hearing disabilities), in a way that is comparable to the access	reports from the ADA tool execution and explain how to interpret the				addition, the ASI is addressing the open IVV recommendations. 7/30/2023		development team to
top bod for ABA compliance as an interim solution. What not received  should be informational the desire by post evaluation of the formation of the final compliance as an interim solution. What not received  should be informational the desire by post evaluation of the final compliance of the f			that they are coding to some of the ADA requirements and are using a desk-	available to others. Part of the system acceptance criteria for BES is to meet	results.				According to the ASI, the automated tool has been configured and set up,		review the results of
Accessibility Standards associated with Section State of the Rehabilitation Act, which was writted in the Act proposed between Required schemacing Sequences Educated Sequences Head of Act, which was writted in the Act proposed between Required schemacing Sequences Head of Act, which was written commander formal conscincts the Act that tends in the Control of Sequences Head of Act tends of the A			top tool for ADA compliance as an interim solution. IVV has not received	"all applicable State and federal policies, laws, regulations, and Standards,					but it is not ready for testing until the User Journeys/Tests to execute are		the desk-top tool to
Accessibility Standards associated with Ecclas State of the Rehabilisation Act, which was written in the Act promote Premient Requirements Acquaint hat Lates "The cymnic complete Remain Requirements and discrete Premient Regular and the Regular and Regul			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,
Approach that states "The system compiles with 045 Standing standered say development set and sheed by Chicago and adheres to Wilk Seed a Secretability guidelines, sub- set and seed a			for all ADA compliance items.	Accessibility Standards associated with Section 508 of the Rehabilitation							the IV&V has not
parts of section 500 of the Americans with Disabilities Act (ADA), parts of Section 500 of the Americans with Disabilities Act (ADA), productions in an anguagement in 65 of 25%. "The Net Insural guidences design of the Complete Act (ADA) and the ACT (ADA)				Act., which was verified in the ASI proposed Technical Requirements					and did not provide any significant value. The ASI plans to commence formal		
parts of section 500 of the Americans with Disabilities Act (ADA), parts of Section 500 of the Americans with Disabilities Act (ADA), productions in an anguagement in 65 of 25%. "The Net Insural guidences design of the Complete Act (ADA) and the ACT (ADA)				Approach that states "The system complies with DHS branding standards as					ADA testing in October 2023. They plan to conduct automated testing at an	1	development lead to
rondicrimination suffiguration in 46 CPR 85." (file the levals guidelines (http://www.hasti.uk/accest/up/a				defined by DHS and adheres to W3C level 2 accessibility guidelines, sub-							nave further
Guideline from the 901 Sentodox, and contractual delegation to achieve to described. And delegation to achieve to the Science Occupiance qualitating entry. Increased Ose, and the Science Ose occupiance qualitating compliance to the science of the Science Ose occupiance qualitating compliance of the Science Ose of the Science Ose occupiance qualitating compliance of the Science Ose of the Science Ose occupiance qualitating compliance occupiance qualitating compliance occupiance occupiance occupiance qualitating compliance occupiance occupia				parts of Section 508 of the Americans with Disabilities Act (ADA),					the ASI will incorporate accessibility guidelines into their		aiscussions on this
Guideline from the 901 Sentodox, and contractual delegation to achieve to described. And delegation to achieve to the Science Occupiance qualitating entry. Increased Ose, and the Science Ose occupiance qualitating compliance to the science of the Science Ose occupiance qualitating compliance of the Science Ose of the Science Ose occupiance qualitating compliance of the Science Ose of the Science Ose occupiance qualitating compliance occupiance qualitating compliance occupiance occupiance occupiance qualitating compliance occupiance occupia				nondiscrimination safeguards in 45 CFR 85.". If the Hawaii guidelines					design/development activities and conduct manual testing. 6/30/2023 - The		topic.
the Section SSE compliance guidelines (https://exctosSE gov/) there may be sugnificent amount of rework to the solution.  ADA compliance in a successory at this time, and what As stated the published per here used of ADA compliance in successory at this time, and what As stated the published per here used of ADA compliance in successory at this time, and what As stated the published per here used or any only only one of the ADA compliance in the ADA compliance to any of the ADA compliance to the ADA compliance to any of the ADA compliance to				(HILLIPS//WWW.HIWWAII.edu/access/un-guidelines-tor-accessibility/), FNS Guidelines from the 901 Handbook, and contractual obligations and contractual obligations.					Asi conducted an assessment using the ADA compliance tool in June and		
be a significant amount of rework to the solution.  Resizes 21 on the schedule) and the ASI states that publishing the results of ADI comprises for some secretary 4th stimes. However, the ASI appears to the ASI appears the ASI appears to the ASI appears the A											
AbA compliance to Aban Century at this time, although the AB appears to be a curvively-engaged in ABA compliance to the decisions to withhold appliance, and a compliance that				the a cignificant amount of rework to the rolution					testing officially in Release 12 (moving all related tasks from Release 11 to		
actively engaging in ASA testing, BV is concerned with the decision to withhelp engaging in ASA testing. BV is concerned with the decision to with a better understanding of the ASA testing process, 54340/261-x 1800 of the Concerned process,									nercose 12 in the schedule) and the ASI stated that publishing the results of		
without goal parties that and one was the contract of the cont											
provide stakeholders with a better understanding of the AGA testing process is shall offers with a better understanding of the AGA testing process is provided to the provided of the AGA testing provided to the provided of the AGA testing the state of the state of the AGA testing the state of the state of the AGA compliance to the day of the AGA compliance testing the addition, the AGA confundation that offer the AGA compliance testing, in addition, the AGA confundation that offer the AGA confundation that AGA confundation that the AGA confundation compliance testing in addition, the AGA confundation compliance testing in addition, the AGA confundation compliance to the AGA testing the AGA test									activery engaged in ADA testing, IVV is concerned with the decision to		
process. 5/12 - The Abit is professing the process and the State of th											
the selected An Accompliance teaching publish the first founding and found											
test results on Aue 7, 2023. 4/30/2023 - The Project adopted Usability and to perform ABA compliance testing. In addition, the ASI continues to enhance amount of the ABA compliance testing. In Addition, the ASI continues to enhance 4 ABA compliance testing. 3/31/2023 - The Project adopted to the ABA compliance testing to the ABA compliance testing the ABA compliance									the selected ADA compliance tool and plans to publish the first compliance		
perform AID Accompliance testing, in addition, the ASI continues to be made a automated accompliance testing, [3/12/02031* The AID Action AID									test results on lune 7, 2023, 4/30/202 - The Project adopted Lice hits and a		
automated compliance testing. 3/31/2023 - The ADA compliance tool											
currently used within DTS does not work the MES architecture. The ASI is									automated compliance testing. 3/31/2023 - The ADA compliance tool		
Contrary was man active seed to the seed of the seed o									currently used within DHS does not work the RFS architecture. The ASI is		

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Finding Identified ID Tible Reporter Type Date Category	Observation Significance	Recommendation	Ar Event Horizon Impact Probability Pr	nalyst Finding lority Status	Status Update Client Comments	Vendor Comments
63 The lack of early planning and coordination Reproduts, Fording: 1/21/2021 Integrations and with Interface partners may result in Mark Risk Exclude delays: Monagement Mark Risk Management	The blowing planning and execution them have not yet been addressed and documented by the AL Connectivity is planned to selfate a personal documented by the AL Connectivity is planned to selfate a personal documented by the AL Connectivity is planned to selfate a personal document of the AL Connectivity is planned to selfate a best of the AL Connectivity is planned to selfate a selfate and selfate communication with interface partners for coordination, design, and lesting extribes (Unit Test, 5TF, UTI, - Instruction planned to the AL Connectivity is planned to the AL Connectivi	ordination, interfaces to avoid unexpected delays due to external organization minimimies miscommunications or their own internal delays in assisting the BES project.  SASI and DHS conduct a root cause analysis to determine the reason FDDs ementation were changed without DHS knowledge. COMPLETE 1. Establish a	3 2023 4 2 M	ad Open	ON ITAL 1223. The ASI determined that some of the proviously closed MAXA (ASI) CARL IN the presented and indigent the methods, and MAXA (ASI) CARL IN the presented of the Mayard Interest of the MAXA (ASI) CARL IN THE PROVIDED AND ASIA (ASIA INTEREST ASIA (ASIA INTEREST ASIA INTEREST. ASIA INTEREST ASIA INTEREST ASIA INTEREST ASIA INTEREST. ASIA	7/20/21 80º - The AB tam requests that the NoV reasons when the severity of this risk in light of the foliar resource of the severity of t
29 Uncertainty and/or. Talk of communication fors, Michael Redge 3/28/2019 Redge uncertainty for an arbeitsted evidence of the Section of the Section Could Impact the project budget, schedule, system design, and planning decisions.  When the Section Section of Section S	Throughout the last owner (years only protect histolics, apirlors modells by suppress architecture decision have not always been calvely communicated and accolated to all releases project stakeholders. For example, the ASI and available. These architecture places are the last of the control	come Deliverable with additional details as they become available and with any capabilities. If the control of	2 2 La	w Open	and gain partner lopel/confirmation on testing and implementation dates.  ###################################	ration 4/23/21 rap - The ASI n and DHS continue to

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