

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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April 21, 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, Med-QUEST Division, Health Analytics Program.

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

Sincerely,

Douglas Murdock (Apr 21, 2023 12:30 HST)

Douglas Murdock Chief Information Officer State of Hawai'i

Attachment



Hawaii Department of Human Services Systems Modernization Project

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

Submitted: April 17, 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 BES Project is now halfway through the development of the first of two planned releases. While the pace has been increasing throughout the month of March, DHS and IV&V expressed concerns with the ASI on the limited number of BES software demonstrations conducted for a larger DHS and IV&V audience. These demonstrations are a key part of the ASI's Design, Develop, and Implementation (DDI) approach, intended to show the actual working software to DHS to confirm requirements and expectations are being met. In discussions with the ASI, they plan to conduct several demonstrations in the next reporting period.

The DHS and ASI project teams are adapting to the agile software development approach. While IV&V reported a slow start after the restart, IV&V observed an increase in momentum. IV&V notes the ASI is reporting all activities and tasks are on schedule.

The Project continues to make good progress in building the BES Security Plan. The submission and approval of the Security Plan shifted from March 2023 to November 2023 - allowing for the inclusion of implemented security and privacy controls versus planned controls as originally decided.

IV&V is closely monitoring the DHS and ASI preparation activities for UAT and the Pilot. Planning for these significant events is underway, and the importance of effectively using the available time to prepare cannot be overstated.

Jan	Feb	Mar	Category	IV&V Observations
Н	M	M	Project Management	The ASI continued elaborating the project schedule, which now includes Dev Ops tasks. DHS added a Project Manager to help manage the BES workload.

Executive Summary



Jan	Feb	Mar	Category	IV&V Observations
M	M	M	System Design	The design sessions that occurred in this reporting period were ASI-internal or ad-hoc meetings with specific DHS Subject Matter Experts. The ASI is planning to expand demonstration participation with more DHS and IV&V staff to ensure the requirements are thoroughly met.
M	L	L	Configuration and Development	The ASI added senior resources to the development team to improve productivity. The ASI continued to evaluate Configuration Management tools.
M	M			The ASI completed work on the interface partner dashboard in Confluence. The ASI obtained a commitment from the task management system vendor to complete all required work in alignment with BES schedule requirements.
M	M	M	Testing	The ASI determined that the currently licensed ADA compliance tool within DHS will not work for BES. The ASI is re-evaluating a tool that was previously under consideration to verify that it will meet all contract requirements.
Н	M	M	Security and Privacy	Project work on the BES Security Plan is progressing well, although significant work remains. DHS decided not to purchase an Enterprise Governance, Risk Management, and Compliance (eGRC) tool and will instead leverage an existing Excel-based process used with other DHS systems.



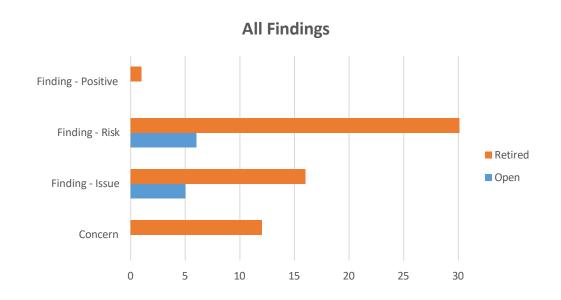


As of the March 2023 reporting period, PCG is tracking 11 open findings (6 risks, 5 issues) and has retired a total of 64 findings. All these findings were opened during the tenure of the prior ASI. Of the 11 open findings, 1 is a High criticality rating, 6 are Medium, and 4 are Low.





The following figure provides a breakdown of the 75 IV&V findings (positive, risks, issues, concerns) by status (open, retired).





Findings Retired During the Reporting Period

#	Finding	Category
76	Risk - Volunteer DHS resources leaving the Project may lead to schedule delays, lowered morale, and burnout. With the BES project restart in progress for nearly three months, IV&V observed no impact to the project from DHS resources leaving. Also, the ASI has made a conscious effort to reduce the number of DHS resources needed for design review. IV&V has retired this finding.	Project Management



Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
	None	



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.	
2	29	The ASI continues to re-evaluate previous infrastructure decisions and is recommending other tools they have deemed a better fit for this project. Uncertainty remains around the use of some tools including ServiceNow (SN), Splunk, and Chronicle. The ASI will go live with their interlinked portals (BES and KOLEA) strategy but may initially go live with less functionality than originally planned and/or communicated.	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 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 – DHS PMO project team members have transitioned off the Project, which may cause gaps in knowledge transfer and leadership on the Project.	
43	DHS continues to advertise and accept applications for three open PMO positions. To date, DHS has struggled to attract qualified candidates and offer competitive pay scales for experienced applicants. IV&V continues to monitor the impact of the DHS PMO vacancies on the BES Project.	Н

Recommendations	Progress
DHS continue to work with the appropriate organizations to identify the funds necessary to fill these positions.	In process
DHS consider other options (Contractors, State employees borrowed from other agencies) to fill these positions if there is ongoing difficulty in finding permanent hires.	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.	
7	74	The ASI continues to incorporate details into the project schedules (Primary and DDI) to track all the activities in progress, including dev ops tasks. IV&V will continue to validate that the schedules accurately capture the tasks and timing observed in the correlated workstreams and tools, such as Jira.	М

Recommendations	Progress
Monitor, evaluate and revise scheduling estimates for accuracy.	In process
Confirm current assumption that a delay with the current go-live date will not result in major implications.	In process
Leverage velocity and burn-down charts to adjust development task estimates if needed.	Not Started



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	Interface design began in March with the HI Department of Health (DOH) vital records data exchange. The ASI created an interface dashboard in Confluence which shows several near-term Epic start dates, but key details are not yet completed for all interfaces. The interfaces are also included in the DDI schedule under Release 12. The ASI will assess the IV&V recommendations as interface work proceeds.	L

Recommendations	
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



Integration and Interface Management

#	Key Findings	Criticality Rating
	Issue – External vendor delays in the development of the BES task management system interface have impacted the project schedule.	
79	The ASI met with the task management system vendor and received commitments that system updates will be made on a timely basis to avoid impacting the BES project schedule. IV&V will continue to monitor the subject of this finding and the related project activities.	M

Recommendations	
The ASI re-establish regular collaboration meetings with C!A to assure strong communication and brainstorm optimal solutions for BES integration with Current.	In process
The ASI provide test results from the task management integration to ensure that the interface works.	Not Started



Configuration and Development

#	Key Findings	Criticality Rating
	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution.	
70	The ASI is currently evaluating which Service Now (SN) modules will be the best fit for the Project and for DHS going forward. Details of exactly how they'll be using SN and the level of configuration management they intend to perform has yet to be determined.	

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.	
	The ASI is taking multiple actions to mitigate potential delays to development, including:	
	 Monitoring the capacity of each development team, adding resources needed to complete work as scheduled. 	
80	 Adding three highly skilled, veteran business analysts to improve system design that development teams will leverage. 	L
	 Developing a dashboard view of Epics in progress showing status and progress as well as burndown and velocity charts to show team productivity. 	
	The project is halfway through release 0.11, and the ASI has demonstrated only two of the twenty-six Epics in scope for R0.11. It remains unclear if the project team can complete and demonstrate the remaining twenty-four Epics in the remaining three months of the release.	

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



System Design

#	Key Findings	Criticality Rating
61	Issue – Poorly executed JAD and "design sessions" could lead to inaccurate design and rework. Due to the small number of design sessions IV&V observed this month, we could not measure any progress toward mitigating this finding. The ASI is increasing efforts on processes, usage of new tools, and different workflows – which included a major cleanup effort in Jira. The ASI expects the number of Epics in the design stage to significantly grow in the coming weeks, leading to more design sessions where IV&V can assess improvements.	М

Recommendations	
The facilitator should use their expertise to drive discussions through leading questions.	In process
BAs should come to design sessions fully prepared to facilitate discussion on the topic(s) of the design session.	In process
 The ASI to bring User Experience (UE) designers to engage with DHS and review the currently built BES solution. 	Complete
ASI to quickly gain lessons learned to apply to future sessions.	In process



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 is making updates to the BI-12 System Architecture deliverable to reflect recent changes and expects more changes soon. The ASI made good progress on the buildout of their DevOps automation scripts that will allow them to manage the cloud environments more easily. Additional BES infrastructure tasks are being added to the project schedule and should be evaluated to determine if the impact on the critical path.	M

Recommendations	Progress
 ASI clearly communicates the potential costs and schedule impacts to implementing the planned infrastructure. The architecture process should include steps to provide a detailed impact of DHS architectural decisions including the integration activities, support required, and maintenance and operations impacts. 	In process
 DHS work with the ASI to assess the potential challenges of maintaining a complex environment and consider scaled-back options that could reduce this risk and reduce long-term maintenance challenges and costs. 	In process
 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. 	Not started
 ASI allot time in the schedule to conduct proof of concepts to assure infrastructure components work as expected. 	Not started
 ASI maintain a detailed schedule for DevOps implementation tasks to avoid unexpected delays that could delay project milestones and the critical path. 	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	The ADA compliance tool currently used within DHS does not work the BES architecture. The ASI is evaluating an ADA Compliance tool and is working with DHS to validate it will meet all requirements. In the interim, the ASI implemented automated testing to check for screen reading compatibility.	M

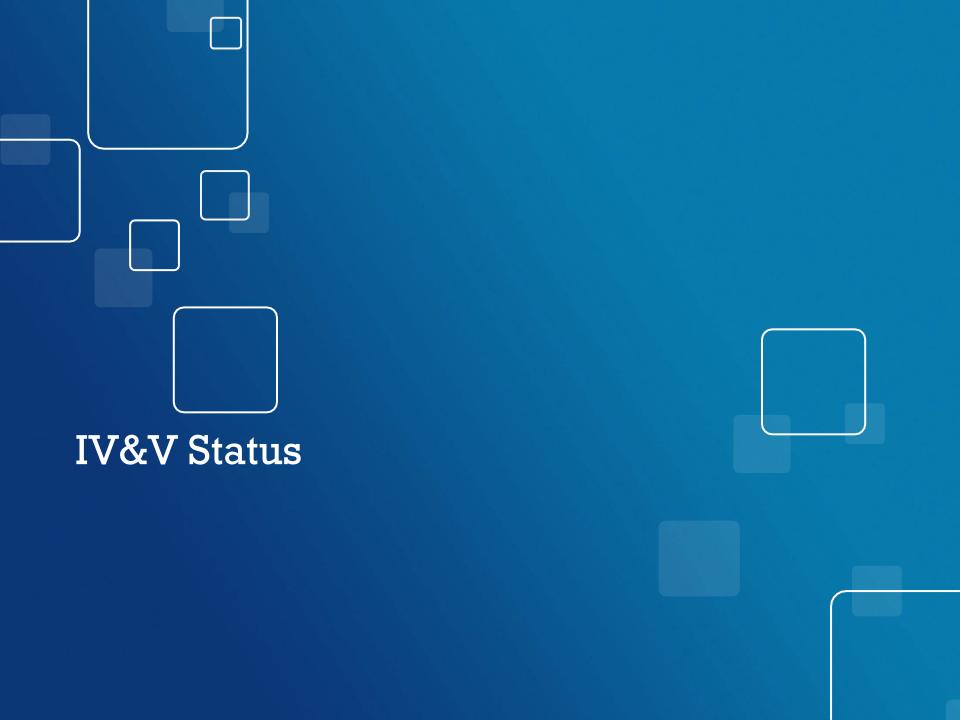
Recommendations	Progress
The ADA tool meets contractual and project requirements.	In process
The ASI communicates a plan for ADA test execution.	In process
The ASI communicates how the tool will be used to report compliance and non-compliance and how non-compliance will be addressed/corrected	In process
 The ASI communicates how and when DHS/IV&V will be provided the reports from the ADA tool execution and how to interpret the results. 	In process



Security and Privacy

#	Key Findings	Criticality Rating
	Risk - Incomplete implementation statements in the BES Security Plan activities may lead to delays in gaining Federal Partner approval for the BES Project to begin the Pilot Phase.	
68	The security meetings continue and have been productive. The ASI and DHS are identifying the controls for the BES Security Plan based on NIST 800-53 r5. The control selection is expected to complete in April and has progressed faster than expected. The option to use an electronic Governance, Risk, and Control (eGRC) is not currently viable for DHS; the BES project team will continue to use legacy tools.	M

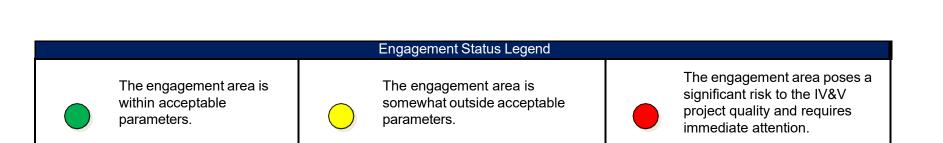
Recommendations	Progress
The ASI continues to develop the BI-13 Security Plan in close collaboration with DHS.	In process
 DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, such as security governance, risk, and control (GRC software). The process should define the level of detail needed to track progress (estimates, target dates, risks, issues, evidence) along with the Requirement Traceability Matrix, and plans of actions and milestones (POAM). 	Complete
An eGRC system be included in a future Advanced Planning Document to seek federal funding assistance for licensing and implementation.	Not Started



IV&V Engagement Status



IV&V Engagement Area	Jan	Feb	Mar	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final February IV&V Monthly Status Report.
IV&V Staffing				
IV&V Scope				



IV&V Activities



- IV&V activities in the March reporting period:
 - Completed February 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 April 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	03/25/2023 03/18/2023 03/11/2023	N/A
BI-5 Project Schedule - BES 2023 DDI	03/25/2023 03/18/2023 03/11/2023	N/A
BI-08 Technology Environnements Specifications - DEV1	03/24/2023	V0.2

<u>Additional Inputs – Artifacts</u>



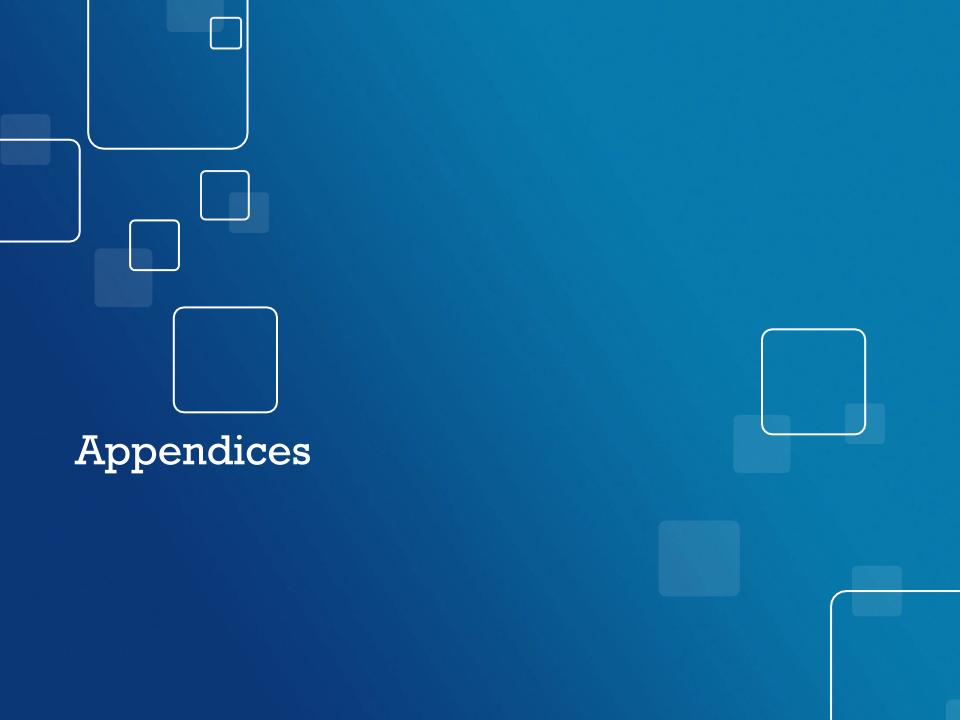
Artifact Name	Artifact Date	Version
BES 2023 Design Kanban board	N/A	N/A
RO.11 Epic Assignment	N/A	N/A
FNS Handbook 901	01/2020	V2.4
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	12/20/2020	Rev.5
One RTM (Aha)	N/A	V1
Interface Dashboard – Confluence page	N/A	N/A
BES 2023 Implementation Planning – Confluence page	N/A	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. Weekly Platform Status Meeting 3/7/2023, 3/14/2023, 3/21/2023, 3/28/2023
- 2. IV&V Team Meeting 3/2/2023, 3/6/2023, 3/9/2023, 3/13/2023, 3/16/2023, 3/21/2023, 3/23/2023, 3/27/2023
- 3. IV&V February 2023 Pre-Draft MSR Findings Review 3/2/2023
- 4. IV&V March 2023 Pre-Draft MSR Findings Review 3/31/2023
- 5. HI DHS BES February Draft IV&V Report Review 3/13/2023
- 6. IV&V March Findings Roast 3/31/2023
- 7. PMO End of Day Huddle 3/1/2023, 3/2/2023, 3/7/2023, 3/9/2023, 3/14/2023, 3/15/2023, 3/16/2023, 3/21/2023, 3/23/2023, 3/30/2023
- 8. Bi-Weekly DHS and IV&V Touch Base 3/7/2023, 3/21/2023
- 9. Weekly BES Infrastructure meeting 3/3/2023, 3/10/2023, 3/17/2023, 3/24/2023, 3/31/2023
- 10. DHS/IV&V Check-in 3/9/2023, 3/23/2023
- 11. Weekly Client BES 2023 Project Status Meeting 3/1/2023, 3/8/2023, 3/15/2023, 3/22/2023
- 12. (External) Epic 110 Alerts and Special Indicators Design Meeting- 3/1/2023
- 13. BES Exec Meeting Topics 3/6/2023
- 14. Security Touchpoint 3/2/2023, 3/8/2023, 3/15/2023, 3/22/2023, 3/29/2023
- 15. BES Touchbase Prep 3/7/2023, 3/21/2023
- 16. (External) BES 2023 Project Meet & Greet with OIT -3/7/2023
- 17. (External) IBM Aspera SFTP-3/10/2023
- 18. (External) ServiceNow for BES- 3/13/2023
- 19. March Mid-Month ASI/IV&V Findings Review 3/15/2023
- 20. BES Security Controls tailoring 3/3/2023, 3/7/2023, 3/10/2023, 3/14/2023, 3/23/2023, 3/24/2023, 3/28/2023
- 21. External BES Data Conversion Discuss FIS Data Extract 3/15/2023
- 22. HI Testing and Implementation 3/15/2023
- 23. Executive Steering Committee Meeting-3/16/2023
- 24. Koolau Pilot Meeting & visit 3/22/2023
- 25. (External Epic Demo) Epic 123 Client Management, Demographics, Citizenship (Manage Alias) 3/22/2023





Appendix A – IV&V Criticality Ratings

Criticality Rating	Definition
H	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.
	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

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Dovelopment delays could negatively impact. Force, Michael Fradither project schedule and delay go live. Risk	Dovi	usation and ASI had proviously reported development activatives have been slewed as divergenced of the property velocity. Previously, the development trains was challenged with accurately estimating development trains level of effect (e.g., they such a schedule that accurately reflects realists timelines (see Finding 174). The ASI continues to be challenged with finding qualified resources in a timely manner.	ASI Blacking the expertise required to create optimal designs and system specifications that developers could consone without requiring extensive clarification from the ASI BAJA team. DSI and IV violenced instances are supported to the ASI BAJA team. DSI and IV violenced instances (Fig. 1) and the ASI BAJA team. DSI and IV violenced instances (Fig. 1) and the ASI BAJA team. DSI and IV violence and IV violence (Fig. 1) and IV violence (Fig. 1) and IV violence (Fig. 1) and IV violence (Fig. 1) and IV violence (Fig. 1) and IV v	resources to effectively increase velocity. Note that adding additional junior resources may not be a effective as staffied additional separ-time development, analysis, and other resources that can lead and metter junior development, analysis, and other resources that can lead and metter junior has been added to the service of the services of the s	Immedate	3 1 Low	Open	VIX.122. The RG is taking multiple actions to mitigate potential diskay in Acceptance of the Acceptanc		
79 Esternal vendor delaja in the devolopiemen (Reyndid, Finden of the BES Surangement system Mark Mark Insue instra's a have impacted the project schedule.	Inter	ce developed by the Change and Innovation Agency (CIA). The Department	I impacted the projects critical path. be by a	Current. The ASI provide test results from the task management integration	Q	S I bled	Open	more is footom. 69/28/22. The ASI has amounced the departure of lay 0,211/2/2021. The AIM must wish the talk management system revedor and 3/211/2/2021. The AIM must wish the talk management system revedor and 3/211/2/2021. The AIM must wish the talk management system revedor and 1/211/2021. The Project has upcoming design (Eqs. 104) that insolve the BES task management system. The new AIM has opposed Dick to more with the EaSI management system. The new AIM has opposed Dick to more with the EaSI management system. The new AIM has opposed Dick to more with the EaSI management system. The new AIM has opposed Dick to more with the EaSI management system. The new AIM has opposed Dick to more with the EaSI management system. The new AIM has opposed Dick to more with the EaSI management system that the system of the Company of the AIM has opposed to the AIM has opposed to the Land of the AIM has opposed to the AIM has opposed to the Land of the AIM has opposed to the AIM has opp		
74. ABS reject schedule based on accurate declina, Basel Fredric estimations deminische effective plasminische effective plasminische effective plasminische effective plasminische effective plasminische effective schedule eine der der der der der dem dem der		This and the ASI have tried multiple times to rework the schedule within results that have not yelded indeprenent. Concrete with the structure, estimating practices, and ability to manage to the schedule persist. These will be a support of the schedule persist. These will be a support of the schedule persist. The The schedu	If assistants for project schedular activities are not accurate, this can lead to constant schedule rakinger, resources for letting available when needed, routhed activities, and general froutation which can lead to schedule delays, low quality output, scope changes, and budget traces.	Confirm current assumption that a delay with the current go-live date will	inmediate	4 2 bled	Open	J312/023. The ASI continues to increporate details to the project schedule (Primary and COI) to tox all the schedules (Primary and COI) tox ask of the schedules (Primary and COI) tox ask of the schedules scorespic schedules sc		
73. The planned Bit Inflormation is complex. Fors, Michael Produced with control of Bit Bit Inflormation and Bit India to schedule/cost impacts.	g 10/78/2021 Syst	o Delign Control Schiffertschung gesen knades a spelfager marbe of spelfager in der Schiffertschung und seine Schiffertschung Further, the Project Tann has yet to finalize components that will make up the BES infrastructure and the additional costs and often configure, test and implement the planned complex environment remain unclear.	Infrastructure is not accurately accounted for and staffed by the ASI, the project could be must with unexpected could and shedule delays. Delay in flushing the components being implemented could excertate this risk and lead to further delays. Complete patients on their present option maintenance and operations challenges as system changes can hold the chroases potential for system failure in a system change can hold the chroases potential for system failure in a clue to the syngificant number of chromate potential for system failure in a clue to the syngificant number of infrastructure and application level lags. Further, some component infrastructure and application levels and the system of infrastructure and application levels and infrastructure and application levels infrastructure and infrastructure a	inglement and maintain the planned infrastructure. The architecture process should include steps to provide a detailed impact of DRS architectural decisions including the integration architects, support required for a decision in the control of t	Next several month	3 3 Med	Open	The work stopped on slegnment y, auch, registrees to the saw more \$1,312,2023. The All Is making updates to the 12 System in Architectural has a contracting the state of the same of the state of the same of the state of the same of th		

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ID Title	Finding Reporter Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizon	Impact Probabil	Analyst ity Priority	Finding Status	Status Update	lient Comments	Vendor Comments
70 Insufficient configuration management could lead to development conductor and reduce the effectiveness of defect resolution and reduce the effectiveness of defect resolution.	Fors, Michael Fedang, Risk n	Development	projects Security Plan has yet to be finalized which may include additional requirements or decisions that could image. ACM. The project currently relies on Github for tracking of some configurations.	includes tools that may provide a level of abundance for Confligation Management that may reduce error and include provide the project than Management that may reduce error and include the Confligation for the Confligat	management tools and Dist work to Nord and procure a CM tool, as required, to anoid any agency lempton to the project. COMPATED 4 totals in the 15°CC for the Configuration branagement Activities that we have a contract to the Configuration branagement Activities that we have a contract to the Configuration branch to the Configuration br	ASSP	,	2 tow	Open	M31/2021. The ASI is currently evaluating which Service New CNN models and what the best fifth of the project and for CNI signs (forward, Clastics) of each; how they'li be using \$14 and the level of configuration management of each; how they'li be using \$14 and the level of configuration management of the configuration of the configuration management of the configuration of the config		9/9/2021 - RAP: We look floward to receiving specific receiving receiving receiving receiving receiving that the plan likely needs to be updated processes in place on the processes in place on the processes in place on the propert for configuration management.
68 Incomplete implementation datements in the BIS system excurity Plan may lead to delay in galling Federal Pather agground for the BIS Project to Jegon the Moor Plane.	Health, Dustion Finding - Rock	7728/2013 Security and Phoney	Over the last several months, the EES project team has been working through the planning efforts to develop the LaS Security Whan while also managing through ACS Security Lead strifling changes. DRS and the ACI (COID) is the control and a currently revised in the project string to align to the requirements and changes to the project since inception.	The BES project must have a clear plan to define, implement, test, and validated all Security and through Regulared March Conference or centering the Pilot plans. These are many standards that must be met, and the project Pilot plans. These are many standards that must be met, and the project conference or co	Planning Document to seek federal Anoling assistance for Incenting and implementation. CoMPILET. Of seal of the 30 year (see Fig. 1) and opposite the seek of the seek of the control of the seek of the control of the seek o		ì	3 Med	Open	GUIJAIDACE - The security meetings continue and have been production. Not NOT STATE - The security meetings continue and have been production. And TRO 20-13 ft. Prototol selection is regarded to complete in June 1987. The STATE - 1987 of the STAT		9/y/2011 - RAP: The decision to move to consider the move to consider the consideration to move the consideration of the consideration of the security plan the security plan the process of planning the effort or make these updates. The effort required to make these updates. The effort required to make the GPC change request or a new consideration of the GPC change request or a new consideration of the GPC change request or a new consideration of the GPC change request or a new consideration of the GPC change request or a new consideration of the GPC change request or a new consideration of the GPC change request or a new consideration of the GPC change request or a new consideration of the GPC change request of
67 The Americans With Disabilities Act (Asia) Section SIG compliance tool has not been installed for the Project, which may cause significant rework.	Tan, Rjeni Proding- Rik	77227023 Testing	While RO. 3 and RD.4 reported that Sections DEC compliance had been successfully compliand the AS confirmed that there is currently no working tool installed and that Sections SRG compliance stetling has not been made to the section of the sectio	The AAD Section 280 intents to make electronic and information technology accessible to people with disabilities (e.g., color bindens, valors and hearing stabilities), it is very that it comparable to the excession and hearing stabilities in a very that it comparable to the excession of the excession in the excession of the exc	The ASI communicates a plan for ASI Asi test execution. — The ASI communicates how the cell of the used to reproduce and non-compliance and how not compliance and how for compliance and how to compliance and how to the compliance and how to the compliance and how to the compliance of the ASI Asi descended and how to interpret the results. Supersided #XI/D/2011.—The ASI should gain 1647 5 approval on the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval on the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval on the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval on the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval on the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval on the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval to the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval to the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval to the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval to the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval to the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval to the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval to the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval to the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval to the tool extended #XII/D/2011.—The ASI should gain 1647 5 approval to the ASI	As soon as possible	1	3 Med		AJJA/2021 - The ADA compliance tool currently used within DHS does not with the BS scrience. The ADA is resultance. The ADA is resultance and ADA compliance tool and is working with DHS is validated in will meet all requirements, in the compliance tool and is working with DHS is validated in will meet all requirements. In the compliance tool and is working with DHS is validated and the ADA compliance tool. DHS currently uses the improve in other areas and the compliance tools. DHS currently uses the improve in other areas and the ADA is receivable in Empirical Biology. Jack Plan (Park Park Park Park Park Park Park Park		9/9/3.2 Mer. The Act has instead the Yeld Vot make contact with the development bears to review the results of the development bears to review the results of the development bears to the development bears the Yeld Vota not contacted the development lead to have further development lead to have fu
63 The bick of early glanning and coordination with inetial spartners may result in schedule delays.	Reynolds, Finding- Mark Risk	1/21/0021 integration and total to	and documented by the ASI. Connectivity is planned to utilize a presently undefined ETS API Gateway; however, there is no evidence that details have been determined or documented in this regard. There is little evidence of active and sufficient communication with interface partners for	defined communication plan and schedule that includes the coordination, planning, and execution activities along with milestone dates can minimize the risk of potential delays. In addition, after planning has been completed,	OFR15. Complete all MOAs and obtains formal approach. Ex Conferm testing date with infertise patients in wirting. 7. Complete only profit of concept infertises to avoid unespected delays, due to external approach incommunication or the own uniternal delays assisting Peter Spreach, the developer of the profit of the profit of the profit of the profit of the developer of the BEST DOS activities. COMPLETIO BIO/29. 2 Settlement developer of the BEST DOS activities. COMPLETIO BIO/29. 2 Settlement developer of the BEST DOS activities. COMPLETIO BIO/29. 2 Settlement developer of the BEST DOS activities. COMPLETIO BIO/29. 2 Settlement per complete and the profit of the BEST DOS activities. COMPLETIO BIO/29. 4 Committee of the COMPLETIO DIGINAL COMPLETION and developed with include the database all interfaces. COMPLETIO DIGINAL COMPLETIO BIO/24.	Q4 2221	•	1 Low	Open	0/13/10/23 - Interface design began in March with the Int Department of health (DOI) with arrow date schedups. The All created an interface darbboard in Confluence which shows several near-term light start dates, but in gedmain are only completed for all interfaces. The interfaces are with regional proof of the confluence of the confluence of the confluence of the confluence of the confluence of the confluence of the confluence of the confluence of the confluence of the confluence darbboard to track and progress and status of each interface. The interface and bear darbboard to track and progress and status of each interface. Or 13/10/23 - The reaching in the reporting proof concentrated progress are why the began. We will reasons this finding once related progress are why the began. We will reasons this finding once related progress are why the began. We will reasons this finding once related progress are why the began. We will reason the finding once interface progress are confluenced to the confluence of the confluence that the confluence of the confluence was the confluence of the confluence to the confluence of the confluence was the confluence to the confluence of the confluence which the confluence to		7/20/21 RAP - The AG team requests that the commence of the co

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Finding ID Title Reporter Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizon	Impact Proba	Analyst ability Priority	Finding Status	Status Update	Client Comments	Vendor Comments
Et Roelly excuted MD and design sections Mollins, Badd Practiques Could lead to haccount design and reservi.	11/90/2020 System Design	concerns being observed No clear introduction to all gardropents on the goal of the AID, overview or the process and the importance of their participation On many occasion, not econversation needed to be drivenly not only only one of the control of their participation On their participation of the control of their participation The control participation of the control of their participation of the other or the control of their participation of the other or the control of their participation of the other or the control of their participation of of the control of their participation of	the users and client? Tomotories or unclear ADD sessions with insufficions documentation could lead to a poor clearly, scheding the details needed to support business requirements; as well as mixing opportunities to improve work flow and related system design.	leading section But should come to design sections fully prepared to fincilitate discussion on the registed of the design section Alst to quickly gain leasons issued to pagin to father sections. Clode: - 120 and design part of the section o	5 5 8 8 8 8 8 8	2	5 Med	Open	1931/2023. Due to the small number of deeps associate NY observed the control, see could normake on a young seek and implement the finite has Asis increasing efforts on processes, usage of new tools, and different workflows—which included ampior designs effort in Asia. The Asia State of the seek is a seek of the control of a place of the control of the control of a place of the control of the		9/h/21 RAP - The n&W does participate in many facets of the design process design process growing services, and Sprint demo's. Product owner discussions are meant participation. The team is concerned about the participation of the N&V for two main reasoner. If N&V for two does not always title participation design despired control of the N&V for two does not always title participation of the N&V for the design despired control of the N&V for the
43 DSTMO project team members have translored of the Project, which is not provided to the project which may cause gaps in Investigate surface and feedbaships on the Project.	1/30/2020 Priject Manugement	project team members are planning to retire or leave the project within the next few months or have already transitioned off the project. While there are plans and actions being taken, a formal transition/succession plan has not been documented. In January, the ASI did announce and introduce an	planning efforts for BES Maintenance and Operations activities. Additionally, as per the budget, DHS stated if they are unable to fill these	borrowed from other agencies) to fill these positions if there is ongoing difficulty in finding permanent hires. 5/31/2021. DHS continue to work with the appropriate organizations to identify the funds necessary to fill these positions In progress The state should document a transition plan for the project and PMD resources as identified in the RFP (reference RFP section 3.4.3 DHS Staffing). The plan should include the possible CDVID-19.		3	5 High	Open	J/J.1/2013045 continues to advertise and accept applications for three good profession for the profession and profession and profession for the profession and profession and profession for the professi	Final DSF Product Charer Roles and Responsibilities document to TW or QUIV/2013 (04/2016). Shart Charl is becaming now involved in the project. Involved in Arch Sections and PFF discussion around stool state. The project involved in Arch Sections and PFF discussion of Charles around stool state. Section 2015 (14) and the Charles Section 2015 (14) and Economic Sectio	the ASI perspective, the Asia present of the BES project of the perspective of the perspective of the perspective of the perspect of the perspect of the perspect of the BES project of the BES project of the Post
39 Uberhaltink androx a lack of communication. Fors, Michael Federa around long parm architecture decision consistence conditinguist the project budget, schedule, system design, and planning decisions.	S(28)(2015) Project Musagement	system architecture decisions have not always been clearly communicated and socialized to all relevant project stakeholders. For example, the ASI and DHS had not broadly communicated their decision implementing two Siebel instances (one for KDLEA, one for BES) in a timely manner, and the decision	available. These architecture plans and future state designs and capabilities should be thoroughly vetted by a broad base of relevant stakeholders and available experts and broadly communicated to relevant stakeholders as soon as possible. Architecture plans and changes that are not effectively communicated can lead to confluxion and revervie. For example, if Por example, if	Deliverable with additional details as they become available and with any malarized architectural changes. Polls Soutoil fauliate the Profits at strategy and implementation details and clearly communicate out to takeholders and project teams. Complete 13/11. The Project should continue to the possible architectural change impacts to the platform (e.g., ADA, Configuration Management tools), M and Qi MQDL, and ES systems before finalizing architectural decisions IMS continue to request ASI perform due diligent on any recommendation for foundational architecture change decisions and	e d d n	2	2 Low	Open	this project. Uncertainty remains around the use of some tools including	PMS. From Ander perspective, we are full unified in Lifery. Future Integration of the persists is still be determined, but is not one complex than originally planned for data sharing. If change is made to Adobe, this would require a CIC.	4/23/21 rap - The ASI and DHS continue to

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