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June 16, 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 <u>http://ets.hawaii.gov</u> (see "Reports").

Sincerely,

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)



Hawaii Department of Human Services \$ystems Modernization Project

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

Submitted: June 14, 2023



Solutions that Matter

Overview

- Executive Summary
- <u>IV&V Findings and Recommendations</u>
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- <u>Appendices</u>
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Solutions that Matter

Executive Summary



Executive Summary



In May, the IV&V team retired four findings based on the positive changes by the ASI and DHS over the last few months. Although this is good news, the ASI did report development delays due to the unanticipated rework of the Self-Service Portal (SSP) software code. DHS and the ASI developed mitigation actions to avoid any further delays or schedule slippage.

Other Key Events in this reporting period include:

- IV&V opened a preliminary concern to research possible gaps in test coverage of Release 11 requirements. We are
 working with both DHS and the ASI to determine that all Release 11 requirements and functionality will be tested before
 the code is available for DHS UAT verification.
- Two additional BES functionality demonstrations occurred in May. DHS requested and the ASI provided the schedule of all future demonstrations on May 31, 2023. IV&V is concerned that any issues discovered in the demonstrations will require the development teams to remain focused on Release 11 and delay the development of Release 12 functionality.

Overall, good progress was made by the project team in May. The DHS and ASI leadership team are actively managing to the schedule to include issue resolution as they arise without negatively impacting the BES schedule. The project is quickly approaching the Release 11 user acceptance testing phase milestone, the results of this activity will validate the BES project's revised approach and provide some expected lessons learned.

Mar	Apr	Мау	Category	IV&V Observations
м	М	Z	Project Management	The ASI delivered a Jira overview to DHS that provided details into how Jira is being used in conjunction with the project schedule to manage project activities. Additional Jira boards that the ASI uses to track work were shared with DHS and IV&V. Release 11 development delays were identified with corrective actions planned.

Executive Summary



Mar	Apr	May	Category	IV&V Observations
м	м	-	System Design	Most of the software demonstrations to confirm the design of the Release 11 functionality are occurring late in the release schedule and may impact the schedule based on the DHS feedback or result in DHS accepting suboptimal designs to keep the schedule on track.
L	L	L	Configuration and Development	The ASI has reported increasing development team velocity, a measure of productivity. It is unclear if this will help mitigate further development delays as IV&V has not seen the overall project backlog of development work remaining.
L	L	-	Integration and Interface Management	IV&V continues to monitor the progress of the BES project interfaces.
M	М	M	Testing	The Release 11 User Acceptance Plan draft has been released for DHS and IV&V review. The ASI will deploy the ADA compliance tool in June.
М	L	M	Security and Privacy	DHS and the ASI team continue to develop implementation controls. The lack of finalized system technical documentation may result in delays in the completion of the BES System Security Plan.

As of the May 2023 reporting period, PCG is tracking 8 open findings (6 risks, 2 issues) and has retired a total of 68 findings. Of the 8 open findings, 3 are Medium, and 5 are Low.



The following figure provides a breakdown of the 77 IV&V findings (positive, risks, issues, concerns) by status (open, retired).





Findings Retired During the Reporting Period

#	Finding	Category
43	Issue – DHS PMO project team members have transitioned off the Project, which may cause gaps in knowledge transfer and leadership on the Project. This finding has been open for three years and despite attempts by DHS to fund and hire staff in these positions, they remain open and unfilled. DHS stated they have addressed the most critical needs and accept this risk to the BES Project; therefore, IV&V is retiring this finding. IV&V has limited visibility into the budgeting process and overall DHS PMO organization so it is doubtful IV&V can determine the future impact of DHS accepting this risk.	Project Management
61	Issue – Poorly executed JAD and "design sessions" could lead to inaccurate design and rework. The focus of this finding, inadequate facilitation, is no longer materially affecting design sessions and outcomes. Therefore, IV&V is retiring this finding.	System Design
68	Risk - Incomplete implementation statements in the BES System Security Plan activities may lead to delays in gaining Federal Partner approval for the BES Project to begin the Pilot Phase. IV&V is retiring this finding based on the progress and knowledge level of the DHS and ASI team members developing and executing the BI-13 Systems Security Plan. IV&V notes, one recommendation regarding the procurement and implementation of an Electronic Governance, Risk, and Control (eGRC) system may be pursued in the future by DHS.	Security and Privacy
79	Issue – External vendor delays in the development of the BES task management system interface have impacted the project schedule. The ASI stated that the task management vendor provided specific details on the solution to meet the BES requirements for the upcoming design of Epic 104, which is specific to the BES task management system. Therefore, IV&V retired this finding.	Integration and Interface Management



Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
	Gaps in test coverage and slower-than-expected progress in integration testing (INT) may result in schedule delays if subsequent test phases uncover a higher volume of defects and user feedback than initially anticipated.	
83	Observation : After examining the Project's Release 11 QA Dashboards, Release 11 Traceability Dashboards, and Test Repository, gaps in testing coverage may exist and the progress of testing might be lagging. Concerning testing coverage, it appears that not all epics and use cases in Release 11 have associated test cases or are testing the correct use cases. In terms of progress, some test cases remain unexecuted, and not all defects have been resolved as the project commences System Integration Testing (SIT). The ASI has plans to complete the INT exit criteria by June 16, 2023, about 2 weeks after SIT begins.	Testing
	Significance : Identifying defects early is vital for effective testing, as it is more efficient and cost- effective to address issues during the early testing stages. If there is slow progress or incomplete testing in the early stages, it can result in more defects leaking into subsequent testing phases, necessitating more extensive and rigorous testing efforts. Insufficient testing coverage or slower-than-anticipated progress throughout the project lifecycle increases the risk of encountering significant delays, extensions, or the introduction of defects into the production environment during the final testing stage, known as Final Acceptance Testing (FAT).	



Findings Opened During the Reporting Period

#	Finding	Category
	None	

Project Management

#	Key Findings	Criticality Rating
	Issue – Uncertainty and/or a lack of communication around long-term architecture decisions could impact the project budget, schedule, system design, and planning decisions.	
29	Med-QUEST Division (MQD) leadership expressed there is ambiguity on the 2-portal scope-of-work and features (KOLEA integration with BES). The ASI plans to meet with MQD and other stakeholders to resolve any confusion and will include a broader MQD audience in future MQD/Benefit, Employment, and Support Services Division (BESSD) collaboration efforts.	

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

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.	
To mitigate encountered Release 11 development delays, the ASI will begin system integration testing as planned at the beginning of June, creating an overlap with the ongoing development activities. IV&V is concerned with this approach in that it requires close coordination and communication between the test and development teams and may require some rework by the test team to validate that all functionality was fully tested prior to moving into the User Acceptance Test (UAT) phase.	
Unexpected rework of the Self-Service Portal (SSP) module caused a second development delay. The ASI will use a Release 11.01 'point release' to complete development and deploy SSP to Release 11 UAT before DHS' planned finish of UAT in late July. Similar to the previous concern, depending on the timing and functionality deployed, this may cause rework by the DHS UAT test team which may have further downstream or schedule impacts.	M
The ASI published a calendar for the remaining Epic demos, as requested by DHS. However, both DHS and IV&V remain concerned that most of the demos have been pushed out too late in schedule - which could lead to significant rework and schedule delays.	
ommendations	Progress
lonitor, evaluate and revise scheduling estimates for accuracy.	In process
onfirm current assumption that a delay with the current go-live date will not result in major implications.	In process
	In process
	Not Started
	 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. To mitigate encountered Release 11 development delays, the ASI will begin system integration testing as planned at the beginning of June, creating an overlap with the ongoing development activities. IV&V is concerned with this approach in that it requires close coordination and communication between the test and development teams and may require some rework by the test team to validate that all functionality was fully tested prior to moving into the User Acceptance Test (UAT) phase. Unexpected rework of the Self-Service Portal (SSP) module caused a second development delay. The ASI will use a Release 11.01 'point release' to complete development and deploy SSP to Release 11 UAT before DHS' planned finish of UAT in late July. Similar to the previous concern, depending on the timing and functionality deployed, this may cause rework by the DHS UAT test team which may have further downstream or schedule impacts. The ASI published a calendar for the remaining Epic demos, as requested by DHS. However, both DHS and IV&V remain concerned that most of the demos have been pushed out too late in schedule - which

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Integration and Interface Management

#	Key Findings	Criticality Rating
63	 Risk - The lack of early planning and coordination with interface partners may result in schedule delays. Interface definitions and partner agreements for 6 of 25 interfaces remain outstanding. Considering that Release 12 development ends on October 5, 2023, there is little time left to complete the agreements and gain partner input/confirmation on testing and implementation dates. NDNH (National Directory of New Hires) DLIR (Department of Labor and Industrial Relations) HYCF (Hawaii Youth Correctional Facility) DoTax (Department of Taxation) AVS (Asset Verification Services) Hawaii Child Support Enforcement Agency Completing these open items will support the ASI in completing the interface development in Release 12. 	
Recommendations		
• C	Complete all MOAs and obtain approval.	

- Confirm testing dates with interface partners in writing.
- 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

In process



Configuration and Development

#	Key Findings	Criticality Rating
70	 Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution. The ASI continues to make progress with its utilization of the ServiceNow Configuration Management (CM) tool. They have recently performed an initial import of Google Cloud Platform server details into the ServiceNow Configuration Management Database. 	L
Re	ecommendations	Progress
•	ASI adhere to plans for configuration management as documented in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DHS.	In process
•	ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track.	In process
•	DHS and ASI work to clarify/solidify plans for the potential use of configuration management tools and DHS work to fund and procure a CM tool, as required, to avoid any negative impacts to the project.	In process



Configuration and Development

#	Key Findings	Criticality Rating
	Risk – Development delays could negatively impact the project schedule and delay go-live.	
80	The ASI is experiencing development delays. Two BES modules that had been completed by the previous ASI need unexpected rework [e.g., Self-Service Portal (SSP), Administrative Hearings]. The ASI also decided to rewrite the SSP rather than upgrade the version of the software used to develop the module, which resulted in an unanticipated level of effort.	L
	The ASI intends to mitigate the Release 11 BES-SSP development delay risks by deploying a planned late- July dot release (Release 11.01) to User Acceptance Testing (UAT) after Release 11. This release will overlap with System Integration Testing and most of UAT but is planned to be tested before UAT ends to avoid impacts to the overall schedule and go-live.	

Recommendations	
• DHS request the ASI strategically add the right project team resources to effectively increase velocity. Note that adding additional junior resources may not be as effective as staffing additional expert-level development, analysis, and other resources that can lead and mentor junior resources.	In process
 ASI effectively track and regularly provide DHS (potentially via the weekly DDI status meeting) with an accurate velocity (e.g., story points per day/week/month) and assure that the current velocity is accurately and consistently reflected in the project schedule. 	In process
The ASI should provide DHS with the time needed to effectively evaluate the software demonstrations.	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 made significant progress in mitigating this risk and has remedied many issues and complexities introduced previously. IV&V continues to observe productive discussions and details of architecture progress while participating in the weekly project Architecture meetings. Therefore, IV&V has lowered the Criticality Rating from 'Medium' to 'Low'.	L

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



Testing

#	Key Findings	Criticality Rating
67	Risk - The Americans With Disabilities Act (ADA) Section 508 compliance tool has not been installed for the Project, which may cause significant rework. The ASI is preparing to assess the BES system using the selected ADA compliance tool and plans to publish the first compliance test results on June 7, 2023.	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
82	Risk – The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan. The ASI is meeting in early June to develop a plan to complete the recommendations of this finding.	M

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





IV&V Engagement Status

IV&V Engagement Area	Mar	Apr	Мау	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final April IV&V Monthly Status Report.
IV&V Staffing				
IV&V Scope				

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

IV&V Activities



- IV&V activities in the May reporting period:
 - Completed April 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 June 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	05/06/2023 05/15/2023 05/20/2023 50/27/2023	N/A
BI-5 Project Schedule - BES 2023 DDI	05/06/2023 05/13/2023 05/20/2023 50/27/2023	N/A
BI-12 System Architecture		N/A

Additional Inputs – Artifacts



Artifact Name	Artifact Date	Version
BES 2023 Design Kanban board	N/A	N/A
R0.11 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
BES QA Dashboard	N/A	N/A
Decision log - Project Management Office - Confluence (atlassian.net)	N/A	N/A
Interface Dashboard – Confluence page	N/A	N/A
BES 2023 Implementation Planning – Confluence page	N/A	N/A
Release 0.11 Integration Testing Defects - Jira (atlassian.net)	N/A	N/A
ExcelAnalyzerScorecard-BI-5Project Schedule-BES2023 Primary-2023-05-02 08-44-16Z.xlsx	5/3/2023	N/A
ExcelAnalyzerScorecard-BI-5Project Schedule-BES2023 Primary-2023-05-17 09-01-08Z.xlsx	5/17/2023	N/A
ExcelAnalyzerScorecard-BI-5Project Schedule-BES2023 Primary-2023-05-25 09-20-11Z.xlsx	5/25/2023	N/A
ExcelAnalyzerScorecard-BI-5Project Schedule-BES2023 Primary-2023-05-31 08-55-49Z.xlsx	5/31/2023	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. IV&V Team Meeting 5/1/2023, 5/4/2023, 5/8/2023, 5/15/2023, 5/18/203, 5/22/2023, 5/25/2023, 5/30/2023
- 2. IV&V April 2023 Pre-Draft MSR Findings Review 5/2/2023
- 3. HI DHS BES April Draft IV&V Report Review 5/11/2023
- 4. IV&V May Findings Roast 6/1/2023
- 5. PMO End of Day Huddle 5/2/2023, 5/4/2023, 5/9/2023, 5/11/2023, 5/16/2023, 5/18/2023, 5/23/2023, 5/25/2023,
- 6. Bi-Weekly DHS and IV&V Touch Base 5/2/2023, 5/19/2023
- 7. Weekly BES Infrastructure meeting 5/5/2023, 5/12/2023, 5/19/2023, 5/25/2023
- 8. DHS/IV&V Check-in 05/11/2023, 5/25/2023
- 9. Bi-Weekly Client BES 2023 Project Status Meeting 5/3/2023, 5/17/2023, 5/31/2023
- 10. Security Touchpoint 5/24/2023, 5/31/2023
- 11. (External) BES 2023 Jira Overview 5/4/2023
- 12. (External) BES System Security Plan Controls Implementation Discussion- 5/2/2023, 5/16/2023
- 13. (External) UI Standards Monthly Review 5/3/2023
- 14. (External) Readiness and OCM General Meeting 5/3/2023, 5/17/2023, 5/31/2023
- 15. (External Sprint Demo) Epic 110: Alerts and Special Indicators 5/10/203
- 16. [External] Bi-weekly BES CCB Meeting 5/10/2023, 5/24/2023
- 17. (External- Demo) Epic 113 Sprint 7 5/11/2023
- 18. (External) UAT Test Team Huddle 5/11/2023, 5/18/203
- 19. (External-Pre-Design) Epic 240: Revising the Notice of Overpayment and DHS 1029, Reviewing FM15 Payment Agreements 5/11/2023
- 20. (External) DHS New Training Tools 5/11/2023
- 21. (External Sprint Demo) Epic 122 5/25/2023
- 22. (External) Epic Demo for Epic 128 5/26/2023
- 23. (External) UAT Test Team Working Session 5/30/2023
- 24. (External) Sprint Demo for Epic 108 5/30/2023
- 25. (External Sprint Demo) Epic 207 Interface Framework 5/30/2023
- 26. (External) Sprint Demo for Epic 110 Alerts and Special Indicators 5/31/2023





Appendices



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
РМО	Project/Program Management Office
PMP	Project Management Plan
QA	Quality Assurance
QM	Quality Management
RFP	Request for Proposal
ROM	Rough Order of Magnitude
RMP	Requirements Management Plan
RTM	Requirements Traceability Matrix
SEI	Software Engineering Institute
SLA	Service-Level Agreement
SME	Subject Matter Expert

Appendix C – Acronyms and Glossary



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

HI DHS Monthly IVV Status Report Final - May 2023

10 704	Durantes	Finding	Identified		Partition of		Funda Hadana		Analyst	Finding			Man day Community
10 Table It test coverage and slower than- expected progress in integration testing (NTT may scale in schedule deby of subsequent test phases uncover a higher volume of debts and user feedback than initially anticipated.	Tan, Ryan (Concern	G/2/2023 Testing	progress of testing might be lagging. Concerning testing coverage, It appears that not all epics and use asses in R1 that was sociated the tacks or are testing the correct use cases. In Items of progress, some test cases remain nonexcited, and not all defects have been resolved at the project commences System Integration Testing (S1T). The ASI has plans to complete the NT exit criteria by June 16, 2023, about 2 weeks after SIT begins.	and cost-effective to address issues during the enry testing tages. If there is solve progress or incomplete testing in the enry tages, it can result in more defects leaking into subsequent testing phases, necessitating more than-anticipated progress throughout the project if lengch increases the mix- dimountainty giving limited address, advanced on the increase of advance in mountainty giving limited address, advanced on the dimoustening giving final Acceptance Testing (FAT).		LUCII (Holicon UAT 2	impact Probau	iny Pricency	Open	384 (1996)	Unit Combu	
82 The lack of technical documentation may lead to incore: Implementation statements or delay the System Security Plan	Heath, Dustin I	Finding - Risk	4/27/2023 Security and Privacy		of the SSP is scheduled to be published August 1, 2023, and the final SSP (ready for federal partner review) is scheduled for September 15, 2023. The	Determine when documentation will be created, updated, and available for the SSP authors Collaborate and communicate with SSP authors about	August 1st, when the full draft of the SSP is scheduled for completion.	3	3 Med	Open	5/11/203 - The ASI is meeting in early juncto develop a plan to complete the recommendations of this finding.		
80 Development delays could negatively impact the project schedule and delay go live.		euk Č	Development	As thad providually regorded development activities have been slowed as here have been involved to scheen acidy on maticals their expected development which provides have been acidy material to the development of the scheme scheme acids and the scheme acidy materials provide acids	militorons, schedule delays nay lead to a diskyed system pa-lve dista. Talante to achieve a level of accorary levelimiting development tasks could lead to a point is chedule that is lineed and unrealistic. Provideoly, bitto bit endicaticat, and that yare clith tartisticate that the same bit endication and that yare clith tartisticate that the distance and a same specifications that developers could consume without registing and left to the failed that that SIA MA Isaan. Disk and WV bistarvel initiataress where ASI Bids/SiA tartes are distance and tartes and WV bistarvel initiatations that that SIA MA Isaan. Disk and WV bistarvel initiatations where ASI Bids/SiA tartes are distance and tartes and WV bistarvel initiatations that that SIA MA Isaan. Disk and WV bistarvel tartess where ASI Bids/SiA tartes are distance and tartess where ASI Bids/SiA tartess are distance and tartess are distance and tartess are distance and tartess are distance and tartess are distance and tartess are distance and tartess are distance and tartess	resource to diffectively increase velocity. Note that adding additional upper trade development, analysis, and other resources that can lead additional experiment development, analysis, and other resources that can lead and enseting Junes provide the State of the period provide the state of the state of the state of the state of the with the time needed to effectively evaluate the software demonstrations	Immediate	3		Open	\$11/23—The ALI is experimenting development distys. The BETS modules that a base in complexity by the province. Alter down more takes the constraint of the province ALT respective to the state of the anticipation of the state	1 9 1 1 1	
74 A 185 Project schedule based on inaccurate estimation deminishe effective by danning and resource management, which could not explore the schedule of the schedule and a late go-live.		SSUR	11,22(7,022 Project Minagement	of multiple tools to track recource editicate resource management. Previous WM United Sectored as previous holder components such as resource management and critical path analysis, all of which were addressed and closed.	If estimates for project include activities annot accurate, this can lead to construct schedul change, resources no bays paralable who meeted, nucled activities, and general frustration which can lead to schedule delays, there quality output, scope changes, and budget traves.	Confirm current assumption that a delay with the current go lve date with toroutil in margin millications. And wy millions to the project schedule, such as principal control of the project schedule control of the control of the principal control of the principal control of the control of the principal control of the principal control of the principal control of the principal control of the principal control control of the principal control of the principal control of the principal control of the principal control of the principal control control of the principal control of the principal control of the principal control of the principal control of the principal control of the principal control of the principal control of the principal control of the an eccessary and provide the Driff All control revel All has a strated ly parts and the principal control of the principal control of the principal control of the control of the principal control of the principal control of the principal control of the control of the principal control of the principal control of the principal control of the control of the principal control of the principal cont	Immediate	4	2 Med	Open	5/11/2022. The InV team continues to assess correct activities and terming for devolgement and unities, writing they also with accurrent tacking the devolgement and unities of the transmissing task denses, and accurate the devolgement and accurate the transmissing task denses are accurate to the lense shared on too the res shared-we have provide and accurate the transmission task of the transmission team and the shared accurate transmission task and the transmission of the transmission task of the transmission team and the transmission task of the transmission transmission task and the transmission task of the transmission transmission task of the correlation task of the transmission transmission task of the transmission task of the transmission transmission task of the transmission transmission task of the transmission transmission transmission task of the transmission transmission task of the transmission transmission transmission task of the transmission transmission task of the transmission transmission transmission task of the transmission transmission transmission task of the transmission transm		
73 The planned IIIS infrastructure is complex which could a diffucit to implement and lead to schedul/cost impacts.		inding - itak	30/36/2023 System Design	Carnet AS infrastructure plans include a significant number of loophisticated composes that make age applications domains under the BS infrastructure plans in the significant output of the BS infrastructure and the additional costs and the bis 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 met with unexpected costs and schedule delays. Lealys in finalising the components being implemented could executate this risk and lead to further delays. Complex platforms often present system maintenance and operations challenges as system changes can hold the increased potential for system failure (i.e., due to the significant number of the significa	tools/components. • ASI allot time in the schedule to conduct proof of concepts to assure infrastructure components work as expected. • ASI	months	2	2 low	Open	5 12/12/23: The AKI mode agentican programs in mitigating the nick and the memoder analysism can comparison is include previous). FWC continues to lower productive discussions and deals of architecture commender analysism can be observed to the second s		

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) Title	Reporter	Finding Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizon	Impact Prol	Analyst sability Priority	Finding Status	Status Update	Client Comments	Vendor Comments
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	ASAP	2	2 Low	Open	5/31/2023 - The ASI continues to make progress with its utilization of the		
could lead to development confusion and		Risk	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 clarify details and/or any changes with DHS.					ServiceNow Configuration Management (CM) tool. They have recently		9/9/2021 - RAP: We
reduce the effectiveness of defect resolution				progress has been made toward establishing CM 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					performed an initial import of Google Cloud Platform server details into the		look forward to
				selecting CM tools (e.g., CMDB), and building out the CM infrastructure. The	Management that may reduce errors and should provide the project team	meaningful set of configuration items or settings they will track.					ServiceNow Configuration Management Database. 4/30/2023 - The ASI		receiving specific
				projects Security Plan has yet to be finalized which may include additional	with accurate, dynamic and timely information on some of the configuration	ASI work to clarify/solidify plans for the potential use of configuration					finalized the ServiceNow (SN) modules they will utilize for the project.		inquiries from the
					items. However, it is critical that DHS/ASI agree to the full list of items that are included in the configuration plan along with the details regarding the						3/31/2023 - 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		IV&V team on
				relies on Github for tracking of some configurations.	are included in the configuration plan along with the details regarding the management of the configuration items, reporting and audit features.	configuration Management Activities that would provide oversight of configuration management activities and assure defined CM steps and plans					exactly how they'll be using SN and the level of configuration management		configuration management and
					management of the companion nems, reporting and addit remarks.	are being followed, are effective, and are achieving DHS objectives for CM.					they intend to perform has yet to be determined. 2/28/2023 - The new ASI		having conversations.
						7/31/2022					intends to utilize ServiceNow (SN) for most configuration management		We do acknowledge
											tracking Details of exactly how they'll be using SN and its multitude of		that the plan likely
											modules and capabilities remain unclear. 1/31/2023 - Activity in the		needs to be updated
											reporting period concentrated on project restart tasks, and IVV will reassess this finding once related project activity has begun. 12/31/2022 - No		to reflect the processes in place on
											material update in the reporting period as the work stoppage continued and		the project for
											the new ASI conducted restart planning. IW will reassess this finding and		configuration
											our associated recommendations once more is known. 11/30/2022 - No		management.
											material update in the reporting period as the work stoppage continues and		
											the new ASI conducts restart planning. 10/31/22 - No work has been		
											performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. IVV will reassess our recommendations for this		
											finding once more is known. 09/29/22 - The ASI announced the departure		
											of key resources including their lead CM strategist, which could exacerbate		
											this risk. With the recent work stoppage and planned reassignment, IVV is		
											not aware of the plans to mitigate this risk. 08/30/22 - The ASI updated the Configuration Management Plan (CMP) with additional configuration		
											management details. 07/27/22 - DHS has identified technical and functional		
											primary points of contacts for ASI to work with for configuration		
57 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	1/31/2022 - The following recommendations will be evaluated for this	As soon as possib	ale 3	3 Med	Open	5/31/2023 - The ASI is preparing to assess the BES system using the selected		
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.	finding The ADA tool meets contractual and project requirements The ASI communicates a plan for ADA test execution The ASI	and prior to final				ADA compliance tool and plans to publish the first compliance test results		9/9/21 - RAP: The ASI has invited the IV&V to
installed for the Project, which may cause significant rework.				tool installed and that Section 508 compliance testing has not been performed. This risk has been discussed with the ASI over the past several	The ADA Section 508 intent is to make electronic and information technology accessible to people with disabilities (e.g., color blindness,	communicates a plan for AUA test execution The ASI communicates how the tool will be used to report compliance and non-	solution acceptance.				on June 7, 2023. 4/30/203 - The Project adopted Usability.net to perform ADA compliance testing. In addition, the ASI continues to enhance		make contact with the
				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	compliance and how non-compliance will be addressed/corrected The					automated compliance testing. 3/31/2023 - The ADA compliance tool		development team to
				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	ASI communicates how and when DHS/IVV will be provided the reports from					currently used within DHS does not work the BES architecture. The ASI is		review the results of
				top tool for ADA compliance as an interim solution. IVV has not received	"all applicable State and federal policies, laws, regulations, and Standards,	the ADA tool execution and how to interpret the results. Superseded					evaluating an ADA Compliance tool and is working with DHS to validate it		the desk-top tool to
				any data to demonstrate the desk-top tool results nor if it provides coverage	including without limitation the Electronic and Information Technology	8/30/2021 - The ASI should gain DHS' approval on the tool selected after the					will meet all requirements. In the interim, the ASI implemented automated		gain insight. To date,
				for all ADA compliance items.	Accessibility Standards associated with Section 508 of the Rehabilitation Act, which was verified in the ASI proposed Technical Requirements	ASI validates it will perform as expected within the BES architecture, meeting all contractual and project requirements. The ASI create and					testing to check for screen reading compatibility. 2/28/2023 - The Project is evaluating different ADA compliance tools. DHS currently uses Site Improve		the IV&V has not contacted the
					Act, which was verified in the ASI proposed Technical Requirements Approach that states "The system complies with DHS branding standards as	communicate the plan for when the ADA compliance tool will be put into					in other areas and the ASI is reviewing its feasibility for this project. The ASI		development lead to
					defined by DHS and adheres to W3C level 2 accessibility guidelines, sub-	action, how the tool will report compliance or non-compliance, how non-					requested access to the Site Improve tool for a Proof of Concept (POC)		havefurther
					parts of Section 508 of the Americans with Disabilities Act (ADA),	compliance will be corrected, and how and when DHS/IVV will be provided					Additionally, the ASI previously evaluated Usability.net and will use it if the		discussions on this
					nondiscrimination safeguards in 45 CFR 85.". If the Hawali guidelines	the reports from the ADA compliance tool and how to interpret those					Site Improve POC is unsuccessful. 1/31/2023 - Activity in the reporting		topic.
					(https://www.hawaii.edu/access/uh-guidelines-for-accessibility/), FNS Guidelines from the 901 Handbook, and contractual obligations to adhere to	reports for the code from previous, current and future releases.					period concentrated on project restart tasks, and IVV will reassess this finding once related project activity has begun. 12/31/2022 - No material		
					Guidelines from the 901 Handbook, and contractual obligations to adhere to the Section 508 compliance guidelines (https://section508.gov/) there may						update in the reporting period as the work stoppage continued and the new		
					be a significant amount of rework to the solution.						ASI conducted restart planning. IVV will reassess this finding and our		
											associated recommendations once more is known. 11/30/2022 - No		
											material update in the reporting period as the work stoppage continues and		
											the new ASI conducts restart planning. 10/31/2022 - No work has been		
											performed regarding this finding due to the work stoppage and ongoing transition to the new ASI. I/V/ will reassess our recommendations for this		
											finding once more is known. 9/30/2022 - DHS issued a work stoppage, and		
											no progress was made to move forward with purchasing the ASI		
											recommended ADA compliance tool. 8/30/2022 - No change in status.		
											Waiting on DHS acceptance/approval to move forward with purchase, installation, configuration, and implementation of the ASI recommended		
53 The lack of early planning and coordination	Reynolds	Finding -	1/21/2021 Integration and	The following planning and execution items have not yet been addressed	DDI project often underestimate the time needed to effectively manage all	OPEN 5. Complete all MOAs and obtain formal approvals 6. Confirm	Q3 2023	4	1 Low	Open	05/31/2023 - Interface definitions and partner agreements remain		
with interface partners may result in		Risk	Interface	and documented by the ASI Connectivity is planned to utilize a presently	the tasks and activities to successfully implement data sharing. A clearly	testing dates with interface partners in writing. 7. Complete early proof of					incomplete for the following interfaces: NDNH (National Directory of New		
schedule delays.			Management		defined communication plan and schedule that includes the coordination,	concept interfaces to avoid unexpected delays due to external organization					Hires) DDH (Department of Health) DLIR (Department of Labor and		7/20/21 RAP - The ASI
				been determined or documented in this regard. There is little evidence of	planning, and execution activities along with milestone dates can minimize	miscommunications or their own internal delays in assisting the BES project.					Industrial Relations) HYCF (Hawaii Youth Correctional Facility) DoTax		team requests that the
				active and sufficient communication with interface partners for coordination, design, and testing activities (Unit Test, SIT, UAT) Interface	the risk of potential delays. In addition, after planning has been completed, interface partners will have to be available during interface implementation	COMPLETE 1. Establish a communication plan for each interface partner for the duration of the BES DDI activities. COMPLETED 10/29 2. Identify and					(Department of Taxation) AVS (Asset Verification Services) Hawaii Child Support Enforcement Agency Completing these open items will support the		IV&V reassess the severity of this risk in
				planning and execution tasks and activities, including those for interface	to ensure that the interfaces are properly developed and tested before	document all interface partners' contacts. COMPLETED 10/29 2. Identify and document all interface partners' contacts. COMPLETED 3/31/2022 3.					ASI in completing the interface development in Release 12. 04/27/2023 -		light of the following
				partners, are neither resident nor managed within the Project Schedule.	deploying the system to production.	Define a release schedule for each interface to include milestone dates,					The ASI took positive action on this risk during this reporting period. The		reasons: a) the ATC
						coordination, and execution and share with the interface partners.					Interface dashboard was revised and updated to provide the information		schedule extension
						COMPLETED 01/04 4. Determine which deliverable will include the details					necessary to manage this activity. The MOA's continue to be reviewed and		has made the urgency
						associated with the planned connectivity and detailed technical designs of all interfaces. COMPLETED 01/04					updated, if needed. 03/31/2023 - Interface design began in March with the HI Department of Health (DOH) vital records data exchange. The ASI created		for tackling these tasks less than it was before
											an interface dashboard in Confluence which shows several near-term Epic		that started lessening
											start dates, but key details are not yet completed for all interfaces. The		the schedule risk, b)
											interfaces are also included in the DDI schedule under Release 12. The ASI		the increase from
											will assess the IVV recommendations as interface work proceeds.		Medium to High in
											02/28/2023 - The new ASI is reviewing all the BES interfaces and is building a Confluence dashboard to track and progress and status of each interface.		May was based on a
											a contiuence dashboard to track and progress and status or each interface. 01/31/2023 - Activity in the reporting period concentrated on project		misunderstanding of the current state of
											restart tasks, and IVV will reassess this finding once related project activity		the MOA's and contact
											has begun. 12/31/2022 - No material update in the reporting period as		metrics, c) substantial
											the work stoppage continued and the new ASI conducted restart planning.		progress has made
											IVV will reassess this finding and our associated recommendations once more is known. 11/30/2022 - No material update in the reporting period		against each of the In
											as the work stoppage continues and the new ASI conducts restart planning.		Progress recommendations,
											10/31/22 - No work has been performed regarding this finding due to the		and it continues to
											work stoppage and ongoing transition to the new ASL IVV will reassess our recommendations for this finding once more is known. 09/29/22 - No		trend in the right
29 Uncertainty and/or a lack of communication	Free Minhou	Finder	5/28/2019 Project	The such as defined as a second s	The current project architecture and design should be as representative and	The SPI employee is employeed at the RUSS Proton A	asap		2 Low	0		06/30/2020 - Combined application is still planned. App still not finalized b	direction. In regards to
29 Uncertainty and/or a lack of communication around long-term architecture decisions	rois, Michael	Issue	5/28/2019 Project Management	system architecture decisions have not always been clearly communicated	inclusive of all known future solution plans as soon as details become	Deliverable with additional details as they become available and with any	MGAP	2	2 LOW	Upen		06/30/2020 - Combined application is still planned. App still not finalized b DHS. From Arch perspective, we are building in Liferay. Future Integration	
could impact the project budget, schedule,				and socialized to all relevant project stakeholders. For example, the ASI and	available. These architecture plans and future state designs and capabilities	finalized architectural changes - DHS should finalize the Portal strategy and					with BES). The ASI plans to meet with MOD and other stakeholders to	of the portals is still to be determined, but is not more complex than	and DHS continue to
system design, and planning decisions.				and socialized to all relevant project stakeholders. For example, the ASI and DHS had not broadly communicated their decision implementing two Siebel	should be thoroughly vetted by a broad base of relevant stakeholders and	implementation details and clearly communicate out to stakeholders and					resolve any confusion and will include a broader MQD audience in future	originally planned for data sharing. If change is made to Adobe, this would	refine the final plan
				instances (one for KOLEA, one for BES) in a timely manner, and the decision	available experts and broadly communicated to relevant stakeholders as	project teams. Complete 3/31 - The Project should continue to vet possible					MOD/Benefit, Employment, and Support Services Division (BESSD)	require a CR.	for the two portal
				was not immediately reflected in the project change log or the project decision log. Further, the details of the rationale for this decision or the plan	soon as possible. Architecture plans and changes that are not effectively communicated can lead to confusion and rework. For example, if	architectural change impacts to the platform (e.g., ADA, Configuration Management tools), M and O, MQD, and BES systems before finalizing					collaboration efforts. 4/30/23 - No material update in the reporting period.		vision. We expect that
					communicated can lead to confusion and rework. For example, if infrastructure tools, governance for these tools, and important	Management tools), M and O, MQD, and BES systems before finalizing architectural decisions DHS continue to request ASI perform due diligence					3/31/2023 - The ASI continues to reevaluate previous infrastructure decisions and is recommending other tools they have deemed a better fit for		final decisions will likely be made during
				communicated.	capabilities/features of these tools are not clearly communicated to	in any recommendation for foundational architecture change decisions and					this project. Uncertainty remains around the use of some tools including		this reporting period
					development teams, they may have to rework their designs once they realize	continue to review with appropriate DHS stakeholders to assure a common					ServiceNow (SN), Splunk, and Chronicle. The ASI will go live with their		and communicated to
					more advanced platform capabilities/features are available after	understanding of the implications of these decisions The Project should					interlinked 2 portals (BES and KOLEA) strategy but may initially go live with		the project. The ASI
					development planning has completed.	continue to ensure communication between development leads and					less functionality than originally planned and/or communicated.		refers the IV&V to our
						architecture leads to assure optimal collaboration on possible architecture capabilities/features and changes that could impact planning and decisions					2/28/2023 - The ASI has made efforts to clarify the scope of BES 2023 in the recent Agile training sessions. There remains some uncertainty around the		February update regarding
						in each area Maintain current communication processes to ensure regular					use of ServiceNow (SN) and the tools that will be utilized for eGRC.		Recommendation #3.
						communication between the architecture team and the rest of the project					01/31/23 - It remains unclear if the scope of the BES 2023 phase 1 has been		From our perspective
						team to assess impacts of architecture decisions to the Project. CLOSED					clearly communicated to stakeholders. For some, the understanding is that		all necessary actions
						11/30/2022					the ASI is developing a lift-and-shift of their existing legacy system (HAWI)		are complete. If the
											with little to no improvements (to avoid scope creep) and have labeled it HAWI 2.0. Others seem to think the ASI will continue the work of the		IV&V does not believe it is Complete we
											HAWI 2.0. Others seem to think the ASI will continue the work of the previous ASI that include improvements based on previous ASI design		
											previous ASI that include improvements based on previous ASI design sessions. 12/31/22 - IVV and some DHS stakeholders remain concerned		request supporting detail.
											with the lack of clarity and lack of communication around the plans for and		
											capabilities of the BES public portal. `11/30/22 - The new ASI is developing		4/23/21 rap - The ASI and DHS continue to
											its communication plans so it is unknown at this time if their process will		and DHS continue to refine the final plan
											improve this issue. IVV notes one specific area that does need additional communication to the project team in the plan and future use of the BES		for the two portal
											communication to the project team is the plan and future use of the BES portal. The previous ASI had built the bulk of the portal (based on LIfeRay)		vision. We expect that