

#### OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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October 13, 2022

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

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

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

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

Sincerely,

uglas Murdock (4ct 14, 2022 11:59 HST

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)



## Hawaii Department of Human Services Systems Modernization Project

Final IV&V Status Report for Reporting Period: August 1 – 31, 2022

Submitted: September 16, 2022



#### Overview

- Executive Summary
- IV&V Findings and Recommendations
- IV&V Engagement Status
- Appendices
  - A IV&V Criticality Ratings
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# Executive Summary

### **Executive Summary**



In August, although progress occurred in some areas, the Project is facing significant challenges that must be addressed, including:

- Corrective Action Plan (CAP) DHS requested a CAP from the ASI to address the root causes of the continued schedule
  delays. The ASI provided a "plan to create the plan", requiring more time for the ASI to identify and document the muchneeded corrective actions. Should DHS accept this approach, the BES project duration is likely to extend further.
- Project Schedule Although the ASI agreed to provide a revised Project Schedule to DHS by August 12, 2022, the ASI failed to deliver, and they have yet to provide DHS with a revised target date.
- ASI Staffing As reported in prior status updates, the ASI stated the development delays were primarily the result of severe ASI staffing shortages. The ASI reported they developed a staffing mitigation plan but, have not shared it with DHS or IV&V. The ASI leadership communicated that they are pausing the implementation of the staffing mitigation plan until they have Project Schedule approval, but no Project Schedule was delivered to DHS.

IV&V continues to question the ASI's ability to deliver the BES solution in accordance with all contractual requirements. This is based on factual data that the ASI has not delivered the expected results as planned and scheduled over the last 4 years. This challenge is immense and requires strong experienced DD&I leadership to develop a realistic plan with a corresponding schedule and deliver the solution as planned.

Jun	Jul	Aug	Category	IV&V Observations
Н	Н	H	Project Management	This category remains a red status. The ASI did not deliver the revised project schedule or CAP as planned and has not completed the GCP Change Request (CR) for DHS' review/approval. (Red since July 2020)

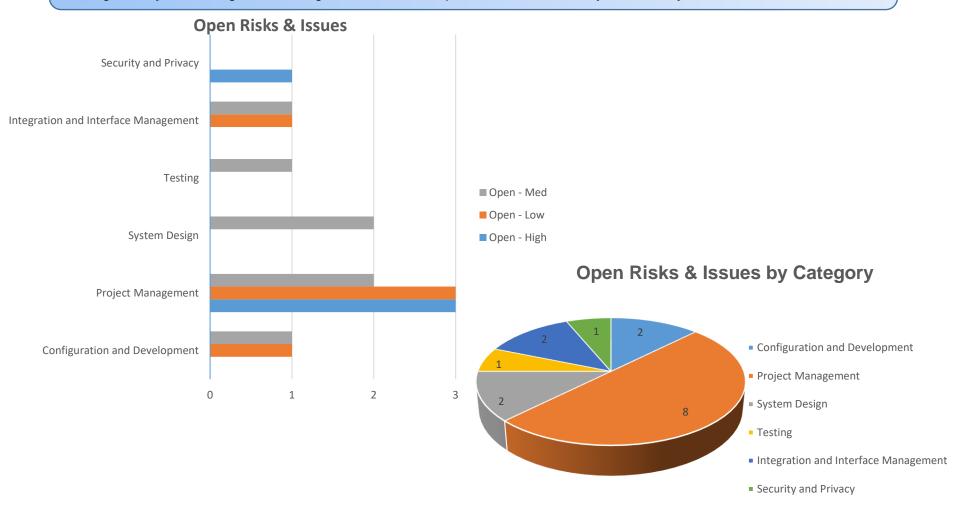
## **Executive Summary**



Jun	Jul	Aug	Category	IV&V Observations
M	M	M	System Design	Although the ASI is now assigning multiple Business Analyst (BA) staff to all design sessions, the Senior BA for the CMM module left the project, which may impact the project team's ability to facilitate the design and associated artifacts for this module.
M	M	M	Configuration and Development	The ASI plans to add 50 resources to the project to address the ongoing development delays. However, the ASI does not plan to hire those resources until the schedule is approved by DHS even though the ASI has not provided a revised project schedule to DHS for review and approval.
M	M	M	Integration and Interface Management	Progress toward finalizing the Memorandums of Agreements with two interface partners continued in August, with a third continuing to move through design. The lack of a schedule to share with the interface partners may have an impact to interface activities.
M	Testing ASI's recommendation. The ASI is waiting on DHS approval/acceptance before comm		The ASI recommended an ADA Compliance tool to DHS. DHS is currently evaluating the ASI's recommendation. The ASI is waiting on DHS approval/acceptance before completing the purchase and installation.	
Н	Н	Н	Security and Privacy	There continues be a significant amount of work for the BES Security functionality. The ASI is adjusting security staffing assignments to minimize the risk, but time is needed to determine the impact.

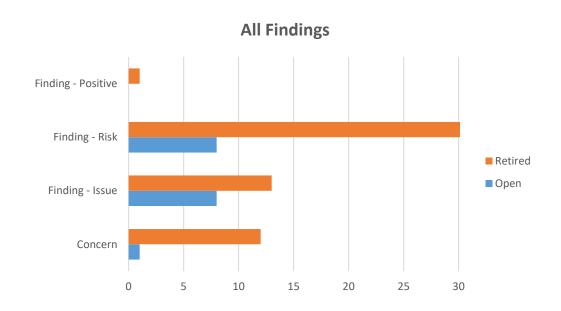


As of the August 2022 reporting period, PCG is tracking 16 open findings (9 risks, 7 issues) and has retired a total of 59 findings. Of the 16 open findings, 8 are related to Project Management, 2 in Integration and Interface Management, 1 in Testing, 2 in System Design, 2 in Configuration and Development, and 1 in Security and Privacy.





The following figure provides a breakdown of <u>all</u> IV&V findings (risks, issues, concerns) by status (open, retired).





#### Findings Retired During the Reporting Period

#	Finding	Category
16	Issue – Lack of clear understanding of the DDI approach may reduce effectiveness of all SDLC Processes.  DHS leadership and IV&V agree that the new design process is understood by the project team and being followed. Therefore, IV&V is retiring this issue.	Configuration and Development
77	Issue – Insufficient DHS Security Resources on the BES Project may lead to delays in completing security tasks and the System Security Plan (SSP) – Low  IV&V is retiring this issue as DHS has remediated the BES security staffing issue.	Security and Privacy



## Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
	Lack of the required ASI staff may reduce project productivity and quality of the BES design that may lead to schedule delays.	
81	Observation: DHS stakeholders and IV&V have observed that working session productivity has been hindered by the lack of sufficient knowledge, capabilities, and expertise of some ASI team members. IV&V acknowledges that some ASI staff are skilled and knowledgeable. However, lack of skilled and experienced staff in all design sessions will likely have negative downstream impacts. Additionally, the ASI recently announced the departure of some of their most capable and experienced resources.	Project Management

#### Findings Opened During the Reporting Period

#	Finding	Category
	None	



#	Key Findings	Criticality Rating
2	Issue – Late Delivery of project deliverables has caused schedule delays.  The ASI is behind schedule with development activities which will impact the critical path. Without an approved schedule, however, it is difficult to determine what is behind schedule and what impacts late deliverables or activities will have to project deadlines.	M

Recommendations	Progress
<ul> <li>Despite not yet having a revised baseline schedule, continue monitoring and analyzing deliverables that have impact to the critical path.</li> </ul>	may In process



:	#	Key Findings	Criticality Rating
2	29	Issue – Uncertainty and/or a lack of communication around long-term architecture decisions could impact the project budget, schedule, system design, and planning decisions.  No material update for this reporting period.	L

Recommendations		
<ul> <li>The Project should continue to vet possible architectural change impacts to the platform (e.g., ADA, Configuration Management tools), M&amp;O, MQD, and BES systems before finalizing architectural decisions.</li> </ul>	In process	
<ul> <li>DHS continue to request ASI 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.</li> </ul>	In process	
<ul> <li>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.</li> </ul>	In process	
<ul> <li>Maintain current communication processes to ensure regular communication between the architecture team and the rest of the project team to assess impacts of architecture decisions to the Project.</li> </ul>	In process	



#	ŧ	Key Findings	Criticality Rating
4:	3	Issue – DHS PMO project team members have transitioned off the Project, which may cause gaps in knowledge transfer and leadership on the Project.	H
		DHS continues to seek applicants for the three PMO positions; these positions remain unfilled.	

Recommendations	
DHS continue to work with the appropriate organizations to identify the funds necessary to fill these positions.	In process
<ul> <li>DHS consider other options (Contractors, State employees borrowed from other agencies) to fill these positions if there is ongoing difficulty in finding permanent hires.</li> </ul>	In process



#	Key Findings	Criticality Rating
47	Risk – The COVID-19 pandemic and the related "stay at home" order could hinder project activities and negatively impact the project schedule and budget.	
	No material update for this reporting period.	

Recommendations	
<ul> <li>Suggest the Project and DHS create a detailed, documented risk mitigation strategy and plan that is reviewed regularly and revised to address the current state of the COVID-19 threat and related impacts over the next 6 to 12 months. The plan should include the possible economic impacts to the state budget directly related to project resources.</li> </ul>	In process
<ul> <li>Send broad communications to stakeholders to assure clear understanding of changes to the Project with this regard to impacts of COVID as well as clarifying communications as to what will remain the same.</li> </ul>	In process
<ul> <li>Project leadership continue to encourage independent phone conversations to enhance and accelerate communications, and for team members not wait for meetings to converse.</li> </ul>	In process



#	Key Findings	Criticality Rating
49	Issue – Poor quality project deliverables may impact system design, testing artifacts and the project schedule.  No material update for this reporting period.	L

Recommendations	
<ul> <li>ASI review the Quality Management Plan to ensure that the Project is working within the Quality guidelines. In particular, the ASI should evaluate and consider if it is in alignment with Section 3.1.2 Measure Project Quality, which states "ASI measures process and product quality by 1) selecting BES implementation process and product attributes to measure; 2) selecting component activities to measure; 3) defining value scales for each component activity; 4) recording observed activity values; and 5) combining the recorded attribute values into a single number called a process quality index." IV&amp;V has not seen evidence indicating the ASI is utilizing metrics to measure its process and product quality.</li> </ul>	In Process



	#	Key Findings	Criticality Rating
		Issue – The lack of the final agreement on the scope and costs of the GCP Change Request (CR) may lead to unanticipated DHS costs, schedule delays, and/or the need to reduce scope.	
71	71	The ASI submitted a detailed project impact analysis to DHS and provided a demonstration of the current environment to DHS. The ASI is planning to provide DHS a GCP Best and Final Offer (BAFO) for review.	Н

Recommendations	
<ul> <li>The ASI should document the current environment M&amp;O activities to ensure all activities are known with a clear understanding of the "AS IS" and "TO BE" model for services beginning with the DDI, through Pilot/Implementation and M&amp;O.</li> </ul>	In process
<ul> <li>The ASI clearly document the scope of work and cost for the GCP CR during DDI and M&amp;O and provide to DHS for approval.</li> </ul>	In process



#	Key Findings	Criticality Rating
	Risk – The lack of a BES Project schedule based on accurate estimations diminishes effective planning and resource management, which could result in late deliverables, cost increases, and a late go-live.	
74	The ASI indicated that substantial changes and improvements were made to the schedule but did not deliver the revised draft to DHS by the August 12 <sup>th</sup> deadline nor has the ASI provided DHS with a new target date for delivery. Without a project schedule, it is difficult for the Project to plan future activities such as hiring required resources to staff the Project.	Н

Recommendations	Progress
<ul> <li>Using the available tools, review the current estimates to complete each activity compared to past actual hours.</li> </ul>	In process
<ul> <li>Update as necessary and provide the DHS/ASI project managers with reports and data that accurately reflect the DHS/ASI resource needs along with over/under allocations of staff for the duration of the Project.</li> </ul>	In process
<ul> <li>Develop mitigation and contingency plans that are tracked/managed by DHS/ASI for all tasks that are behind schedule or are at risk of being behind schedule which includes resource management.</li> </ul>	In process
<ul> <li>Discuss, validate and address additional concerns within the project processes that may cause the project delays other than inaccurate estimates such as over reliance on POs, slow design sprints, and cadence of development teams.</li> </ul>	In process
DHS and the ASI agree to a revised schedule against which project deliverables can be managed.	In process



#	Key Findings	Criticality Rating
76	Risk – Volunteer DHS resources leaving the Project may lead to schedule delays, lower morale, and burnout.  No material update for this reporting period. IV&V continue to monitor.	M

Recommendations	Progress
Allocate more time for the DHS team members to dedicate time to the Project.	In process
<ul> <li>Carefully plan for all project activities with reasonable hour allocations for the DHS resources and adjust dates in the BES Project schedule accordingly.</li> </ul>	In process
Add cushion time to the schedule for unexpected project delays.	In process
<ul> <li>Provide incentives for the DHS resources to help maintain the project team and possibly alleviate attrition or increase the number of volunteers to the team.</li> </ul>	In process



#### Integration and Interface Management

#	Key Findings	Criticality Rating
63	Risk – The lack of early planning and coordination with interface partners may result in schedule delays.  The status-of the three remaining required agreements (DAGS, DLIR, HYCF) have not changed. The lack of a project schedule may impact the interface partners ability to plan for and support BES interface testing. IV&V is evaluating the lack of an approved schedule on the criticality rating for this finding.	L

Recommendations	Progress
Complete all MOAs and obtain approval.	In process
Confirm testing dates with interface partners in writing.	In process



#### Integration and Interface Management

#	Key Findings	Criticality Rating
79	Issue – External vendor delays in the development of the BES task management system (Current) interface have impacted the project schedule.	M
	No material update in the reporting period.	

Recommendations	
Ensure that there is an agreement between DHS and C!A to address roles/responsibilities and outcomes.	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
70	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution.  The ASI updated the Configuration Management Plan (CMP) with additional configuration management details.	L

Recommendations	
<ul> <li>ASI adhere to plans for configuration management as documented in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DHS.</li> </ul>	In process
<ul> <li>ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track.</li> </ul>	In process
<ul> <li>Project work to clarify/solidify plans for the potential use of configuration management tools and DHS work to fund and procure a CM tool, as required, to avoid any negative impacts to the project.</li> </ul>	Not Started



#### Configuration and Development

#	Key Findings	Criticality Rating
	Risk – Development delays could negatively impact the project schedule and delay go-live.	
80	The ASI continues to onboard additional development resources, stating they added 2 on-shore and 2 off-shore developers to their team. Though an updated schedule has yet to be completed by the ASI, they estimate they will need approximately 50 additional resources to assure adequate velocity and cadence to complete the project in the proposed timeframe. However, until a revised schedule is available the actual number of additional resources needed is not known. The ASI is delaying full recruitment for these positions until the project schedule is approved but have not submitted the revised schedule to DHS.	M

Recommendations	Progress
Complete and execute remediation plan based on the result of a Root Cause Analysis (RCA).	In process
ASI consider moving/adding/replacing project team resources strategically to effectively increase velocity.	In process
<ul> <li>ASI track and regularly provide DHS 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.</li> </ul>	In process



#### System Design

#	Key Findings	Criticality Rating
61	Issue – Poorly executed JAD and "design sessions" could lead to inaccurate design and rework.  The ASI's addition of senior BAs to the design sessions has resulted in improvement. The Senior BAs offer guidance to ensure the project team remains focused on the design. Unfortunately, one of the Senior BAs has left the project so it is unknown if this practice will continue for all BES design sessions.	M

Recommendations	Progress
The facilitator should use their expertise to drive discussions through leading questions.	In process
<ul> <li>BAs should come to Day one of Design Sprint fully prepared to facilitate discussion on topic of sprint, with adequate knowledge about business process and approach for design based on JAD/JAR notes and other pertinent material.</li> </ul>	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 intends to engage two 3rd-party vendors to assist with the production environment build (once the GCP change order is approved), which could increase their velocity. The inclusion of these vendors could also mitigate the risk of maintaining a complex infrastructure if these vendors can provide experts who have significant experience with cloud infrastructure and related tools.	M

Recommendations	Progress
ASI clearly communicate the potential costs and schedule impacts to implementing the planned infrastructure.	In process
<ul> <li>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 support costs.</li> </ul>	In process
<ul> <li>ASI develop a process to closely monitor cloud and other product changes (software updates/new releases), manage changes, and regression test once updates are applied.</li> </ul>	In process
The project team work to establish strong governance over the utilization and maintenance of various components to simplify their use and monitoring.	Not Started
<ul> <li>ASI development team identify infrastructure components and techniques that are new to them and take action to assure potential integration problems do not lead to unexpected delays.</li> </ul>	Not Started



#### **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.	M
67	No change in status. Waiting on DHS acceptance/approval to move forward with purchase, installation, configuration, and implementation of the ASI-recommended ADA compliance tool.	

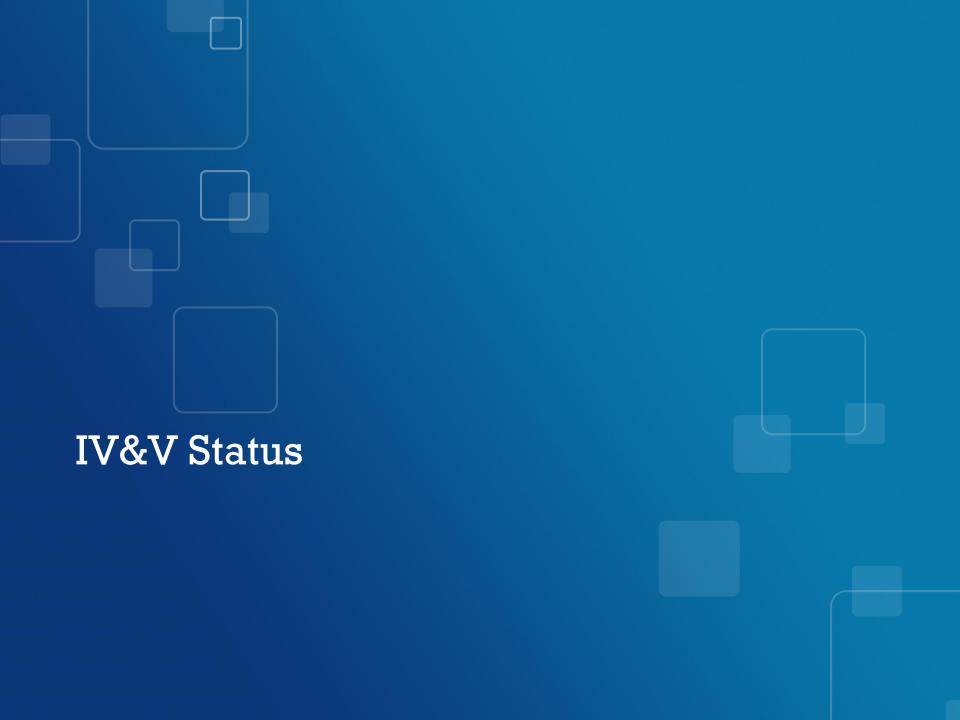
Recommendations	
The ADA tool meets contractual and project requirements.	In process
The ASI communicates a plan for ADA test execution.	In process
The ASI communicates how the tool will be used to report compliance and non-compliance and how non-compliance will be addressed/corrected	In process
The ASI 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
68	Risk - Insufficient planning/execution of the BES Security Plan activities may lead to delays in gaining Federal Partner approval for the BES Project to begin the Pilot Phase.  IV&V recommends that Security SMEs leading security and privacy-focused workshops and technical sessions have a depth of experience in NIST 800-53 and with experience authoring implementation statements of System Security Plans (SSP). The ASI will be changing the ASI security lead in September 2022.	Н

Recommendations	Progress
The ASI continue to develop the BI-13 Security Plan in close collaboration with DHS.	In process
<ul> <li>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).</li> </ul>	In process
ASI add a Security Architect to the Project ASAP to assist with the Security Plan activities.	In process
<ul> <li>ASI ensure that the ASI Security Lead has a depth of experience in NIST 800-53 and experience authoring implementation statements of System Security Plans (SSP).</li> </ul>	Not Started



## IV&V Engagement Status



IV&V Engagement Area	May	Jun	Jul	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final July IV&V Monthly Status Report.
IV&V Staffing				Al Pangelinan has left PCG and is no longer supporting the BES IV&V team.
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 August reporting period:
  - Completed July Monthly Status Report
  - Ongoing Review the BES Project Artifacts and Deliverables
  - Ongoing Attend BES Project meetings, (see <u>Additional Inputs</u> pages for details)
  - Reviewed available ASI Original Contract and BES Optimization contract amendment documentation
- Planned IV&V activities for the September reporting period:
  - Ongoing Observe BES Design and Development sessions as scheduled
  - Ongoing Observe Bi-Weekly Project Status meetings
  - Ongoing Observe Weekly Architecture meetings
  - Ongoing Observe Weekly Security meetings
  - Ongoing Observe Agile Development 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 weekly DHS and IV&V Touch Base meetings
  - Ongoing Review BES artifacts and deliverables

### **Deliverables Reviewed**



Deliverable Name	Deliverable Date	Version
BI-15 Release 0.8 Fully Configured and Developed System – DRAFT	8/26/2022	V0.2
BI-10 Release 0.9b CMM Broadcast Notification – DRAFT	8/25/2022	V0.1
BI-10 Release 0.8 FMM EBT Core(Iteration 3)	8/25/2022	V1.0
BI-10 Release 0.8 FIS Interface Consumption (Iteration 3)	8/25/2022	V1.0
BI-10 Release 0.8 FMM Card Issuance (Iteration 3)	8/25/2022	V1.0
BI-22 Release 0.9a System Test Report – DRAFT	8/24/2022	V0.1
BI-10 Release 0.10 FMM – DRAFT	8/15/2022	V0.1
BI-10 Release 0.9b Financial Management Module – DRAFT	8/55/2022	V0.1
BI-10 Release 0.8 FMM EBT Core(Iteration 2)	8/11/2022	V1.0
BI-10 Release 0.8 FIS Interface Consumption (Iteration 2)	8/11/2022	V1.0
BI-10 Release 0.8 FMM Card Issuance (Iteration 2)	8/11/2022	V1.0
BI-10 Release 0.9 CF Create a Task - DRAFT	8/3/2022	V0.1
BI-22 Release 0.8 System Test Report (Iteration 1)	8/2/2022	V1.0

## Additional Inputs – Artifacts



Artifact Name	Artifact Date	Version
Unisys Contract Amendment 3	4/17/2020	N/A
FNS Handbook 901	01/2020	V2.4
BES Project Schedule (BI-5)	8/05/2022	_08052022
BES Weekly Status Report	8/31/2022 8/24/2022 8/17/2022 8/10/2022 8/3/2022	N/A
BES Risks and Issues Log	N/A	N/A
BES Interface Communication Plans and Interface Control Documents	N/A	N/A
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	12/20/2020	Rev.5
BESControls_8_22_22.docx	8/22/2022	N/A
BES New System Certifications_8_28_22.pptx	8/28/2022	N/A

## Additional Inputs



#### **Meetings and/or Sessions Attended/Observed:**

- Weekly Platform Status Meeting 8/2/2022, 8/9/2022, 8/16/2022, 8/23/2022, 8/30/2022
- 2. Bi-Weekly Project Status Meeting 8/3/2022, 8/17/2022, 8/31/2022
- 3. Bi-Weekly BES PMO and IV&V Touch Base 8/4/2022, 8/18/2022
- 4. Weekly BES Dev Stand-up 8/3/2022, 8/10/2022, 8/17/2022, 8/24/2022, 8/31/2022
- 5. Weekly BES Project Schedule Review Meeting-8/2/2022, 8/9/2022, 8/16/2022, 8/23/2022
- 6. IV&V Team Meeting 8/1/2022, 8/4/2022, 8/8/2022, 8/11/2022, 8/15/2022, 8/18/2022, 8/22/2022, 8/25/2022, 8/29/2022, 8/31/2022
- 7. Weekly DHS-Unisys Security Touchpoint 8/2/2022, 8/9/2022, 8/16/2022, 8/23/2022, 8/30/3033
- 8. C!A Bi-Weekly Meeting 8/4/2022, 8/4/2022, 8/18/2022
- 9. BES Security Controls Meeting 8/4/2022, 8/11/2022, 8/18/2022, 8/25/2022
- 10. BES Testing Touch base 8/10/2022, 8/24/2022
- 11. HI DHS BES July Draft IV&V Report Review 8/11/2022
- 12. Bi-Weekly DHS and IV&V Touch Base Meeting 8/9/2022, 8/23/2022
- 13. ASI/IV&V Mid-month Check-in 8/19/2022
- 14. ASI and IV&V Pre-Draft Report Review 8/2/2022
- 15. Executive Steering Committee Meeting 8/18/2022
- 16. HI BES ASI and IV&V Touch Base Functional Team 8/17/2022
- 17. HI BES ASI and IV&V Touch Base Technical Team 8/17/2022
- 18. Monthly Project Risk and Issue Review Meeting 8/17/2022
- 19. Implementation Planning 8/10/2022, 8/24/2022
- 20. CO19 Manage Provider 8/1/2022, 8/3/2022, 8/5/2022, 8/10/2022

## Additional Inputs – Continued



#### **Meetings and/or Sessions Attended/Observed:**

- 21. R0.13 Correspondence Specs 8/1/2022, 8/3/2022, 8/5/2022, 8/10/2022
- 22. CO23b Manage Interface Verification 8/1/2022, 8/3/2022,
- 23. FM50k Receive FIS Data Inactive/Dormant/Expunged File / FM50l Receive FIS Data Grant Expungement File 8/2/2022, 8/4/2022, 8/5/2022, 8/9/2022
- 24. R0.14 Report Specs 8/2/2022, 8/3/2022, 8/3/2022, 8/4/2022, 8/9/2022, 8/11/2022, 8/15/2022, 8/18/2022, 8/23/2022, 8/24/2022, 8/25/2022, 8/29/2022, 8/30/2022
- 25. Manage SMRF 8/2/2022, 8/4/2022, 8/9/2022, 8/10/2022, 8/11/2022, 8/16/2022
- 26. CO11 Restore Program 8/2/2022, 8/4/2022, 8/9/2022, 8/11/2022, 8/29/2022
- 27. PE04 Override Eligibility 8/3/2022, 8/9/2022, 8/11/2022, 8/16/2022, 8/18/2022, 8/23/2022, 8/24/2022
- 28. FM53 Receive Lockbox Data 8/4/2022, 8/10/2022, 8/18/2022, 8/23/2022, 8/23/2022
- 29. CF52a Manage Documents 8/12/2022, 8/15/2022, 8/17/2022, 8/22/2022
- 30. FM23a Manage Write-Offs 8/12/2022, 8/16/2022, 8/18/2022, 8/23/2022, 8/25/2022, 8/29/2022
- 31. FM51b Receive FNS Data 8/15/2022, 8/17/2022, 8/22/2022, 8/24/2022, 8/24/2022, 8/30/2022
- 32. CO54b Send BEER Data 8/16/2022, 8/18/2022, 8/23/2022, 8/29/2022
- 33. CF71 Manage Supervision 8/17/2022, 8/22/2022, 8/23/2022
- 34. FM30 View Overpayment List 8/29/2022
- 35. PE11a Review Additional Budget Details 8/29/2022
- 36. IF25 CYRCA ICD 8/30/3033
- 37. MDM Consent Management 8/30/2022
- 38. Weekly Functional PMO Meeting 8/1/2022, 8/8/2022, 8/15/2022, 8/22/2022, 8/29/2022
- 39. Data Conversion PMO meeting 8/1/2022, 8/8/2022, 8/15/2022, 8/29/2022
- 40. Weekly Interfaces PMO Meeting 8/1/2022, 8/8/2022, 8/15/2022, 8/22/2022, 8/29/2022

## Additional Inputs – Continued



#### **Meetings and/or Sessions Attended/Observed:**

- 41. PMO Meeting Structure Testing 8/4/2022, 8/11/2022, 8/18/2022, 8/25/2022
- 42. PMO Meeting Structure BES Development 8/4/2022, 8/11/2022, 8/18/2022, 8/25/2022
- 43. PMO Meeting Structure AH/MDM/SSP Development 8/9/2022, 8/16/2022, 8/23/2022, 8/30/2022
- 44. BES Design Sprint Retrospective & Planning 8/5/2022, 8/26/2022
- 45. BES CCB Monthly Meeting 8/10/2022
- 46. DDI Architecture Review 8/4/2022, 8/22/2022
- 47. [BES] Screen Prototype Review FMM FM50k Receive FIS Data Inactive/Dormant/Expunged File / FM50l Receive FIS Data Grant Expungement File 8/11/2022
- 48. [BES] Screen Prototype Review CMM CO19 Manage Resources 8/11/2022
- 49. R0.9 SIT Go/No Exit 8/16/2022
- 50. [BES] Screen Prototype Review CMM CO14 Manage SMRF 8/18/2022
- 51. Disqualification List 8/23/2022
- 52. [BES] BI-22 Release 0.9a Walk-Through System Test Report 8/25/2022
- 53. [BES] Screen Prototype Review CMM PE04 Override Eligibility 8/25/2022
- 54. [BES] Screen Prototype Review FMM FM53 Receive Lockbox Data 8/25/2022
- 55. [BES] RO.9c Sprint End Client Demo SSP Accessibility 8/29/2022
- 56. Review Draft UAT Outline 8/31/2022





# Appendix A – IV&V Criticality Ratings

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

# Appendix B – Findings Log



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

## Appendix C – Acronyms and Glossary



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



# Appendix C – Acronyms and Glossary

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



# Appendix C – Acronyms and Glossary

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

## Appendix D – Background Information



#### **Systems Modernization Project**

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

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

#### **Systems Modernization IV&V Project**

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

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

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

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

### Appendix D – Background Information



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

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

#### PCG's Eclipse IV&V® Technical Assessment Methodology

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

#### **IV&V** Assessment Categories for the BES Project

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

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

### Ending Slide



**Solutions that Matter** 

Begater Total  BL Cack of the required ASI staff may reduce project productively and quality of the BES design that may lead to schedule delays.	Osta Category 9/8/2022 Project Management	expertise of some AS team members. NV actions but some AS staff are skilled and knowledgeable. However, excluded skilled and experted staff in all design sections will fill skill have negative downstream impacts. Additionally, the Asternativa recorded the departure of some of their most capable and experienced resources.	productive, and high-functioning team. If the ASI is not able to maintain high pool fraces, project schooler links could be research. The ASI recently determined that in order to meet the current projected go live date, they determined that in order to meet the current projected go live date, they will be asset to be compared to the control of the ASI or the AS		Event Horizon Impact ASAP 3	Probability Priori	y Status Open	Status Update	Client Comments Ver	ndor Comments
80 Development delays could negatively impact. Michael Fors - Finding - the project schedule and delay go-live. Bisk	6/30/2022 Configuration and Development	All reported development activities have been slowed at they have been unable to active and of multitus fitter ejected development velocity. The AS is working to produce a root cause susyles and remediation jake to the produce a root cause susyles and remediation jake to the produce and the produce an	create system designs and specifications that developers could consume without having to get extensive clarification from the ASI BA/SA team. DHS and IVV observed instances where ASI BAs/SAs have presented less than	Root Cause Analysis (RCA). 455 consider moving/adding/replacing project team resume that trapically to reflect trapically additional purior resources may not be as effective as staffing additional expert-level development, analysis, and other resources. * Request the ASI effectively track and regulary provide DHS (potentially via the weekly DMI stafficking the right was considered and regular provide DHS (potentially via the weekly DMI stafficking the right was considered as a country of the resources of the considered and regular provide DHS (potentially via the weekly DMI stafficking the right was considered as a considere	immedate 3	3 Med	Open	OR/2012 - The ASI continues to solvabard additional development resource statistic plays added to solve and off shistone development to their statistic plays added to solve and off shistone development to their status. Though an apulated include his spir to be completed by the GN. Bry Though and a solvent ship of the solvent ship of additional resources medied not not seen which so deskips all the development resources and ASI of solvenys full the ship of the solvent ship of additional resources and other ship of the solvent ship of the shi	eer da	
79 External vendor dello in discolarment of Michael Fors Finding - the BES hak management system (Gurren) Issue lieferface have impacted the project schedule.	Interface Management	AS has not received any status from CIA. The webbook is currently holding up the design of the C744 – Manage CIA Data use case for Release 0.8.	developed by the Change and Innovation Agency (CIA). The Department of Human Services (DRI) uses the Current system to manage and create care related task. The Benefits Eligibility Solution (EIX) wall restrict well that the second to the Care of	relativesponsibilities and outcomes. Not applicable and completed. 2. Schedule recurring relently soft ICA to emerge consistent communication between DNS, the ASI, NV, and CAL Completed. 3. The ASI provide text results from the task management integration to emoire that the Interface works.	Q3 5	1 Med	Open	OLD/2022. The material update is the reporting period. 68(1):7(2022. Delth has decided not be realth with an agreement with CRIST test an amargument vanishing. The control of the second period of the control of the		
76 Voluntee Dist resources lavage the Project. Earl Burba may lead to scholled distys, lowered morals, and burnout.  Risk	\$\frac{1}{2}7022 Project Management	volunteers except one. Resources are not in dedicated roles within the team	before some critical anth development tasks can commence.  The replacement of Pris resources in project risk (e.g., buttors and product for replacement of Pris resources in project risk (e.g., buttors and product replacement of Pris replacement o	more time for the DHS team members to dedicate time to the Project. • Carefully plan for all project activities with reasonable hour allocations for the DHS resources and adjust dates in the BES Project schedule accordingly. • Add cushion time to the schedule for unexpected project delays. • Provide	Immediate 4	2 Med	Open	All/DOZI2 - No material update for their reporting period. An Victoriana of monitor. 17/12/DOZI - No material update for the reporting period.  The reporting period is to material update for the reporting period.  The reporting period is to material update for the reporting period.  The reporting period is to make the desirable for the reporting period.  The reporting function. (Dit Stated they plan on adjusting staff as respect to the period that the total report for the reporting function. (Dit Stated they plan on adjusting staff as reporting the reporting period of the reporting function. (Dit Stated they plan on adjusting staff as reporting the reporting period of the reporting function. (Dit Stated they plan on substitute the reporting period of the reporting period period of the reporting period p		
74 The lack of a BES Project schedule based on Ryan Tam Finding - accruze entimations dimensions effective focus could result in lead deliverables, cost increases, and a late go-live.	11/29/2021 Project Management	results that have not yielded improvement. Concerns with the structure, estimating practices, and ability to manage to the schedule persist. The use	If estimates for project schedule activities are not accurate, this can load to constant schedule changes, resources not being available when needed, the schedule changes, resources not being available schedule dissipation of the schedule dissipation of the schedule dispression of	activity compared to past actual hours • Update as necessary and provide	immedate 4	4 High	Open	process, losing recourses will have increased impact on delivery and the BIT/2022. The Bit Disclaimed that substantial registers and improvement were made to the attention of the bit of	he he se	

D Finding	Identified	Observation	Continue	December delta	December 1997	Analyst	Finding	Parker Medica	Class Community	Vandas Communita
73 The planned BES infrastructure is complex which could be filled. to implement and lead to schedule/cost impacts.  Bisk	10/28/2021 System Design	Current & Minfrastructure plans include a significant number of sophisticated compens that make up complex cloud infrastructure. Further, the Project Team has yet to finalise components that will make up and implement the planned complex environment remain sunclear. It is a significant to the planned complex environment remain sunclear.	finalizing the components being implemented could executable this risks and sade for further design. Complie patients of the present yellow and sade for further design. Complie patients of the present yellow the control of the present yellow the formation of the present yellow the formation of the present yellow the components of the present yellow the present yellow the present yellow the proper recently experienced a system failure because Google components. For example, the proper recently experienced a system failure because Google components (as meaning and the proper recently experienced a system failure because Google components (as meaning and the proper recently experienced a system failure because Google components (as meaning down of the proper recently experienced a system failure of the proper recently experienced a system failure and as the mature of the proper recently experienced as a first mature of the	Implement and maintain the planned infrastructure. The Architecture process should include steep its provide a design on a CHIEF and FORTY and FOR		3 3 Med	Open	OUR/2012. The ASI intends to engage the Drie party wendon to soaks with the production environment build (once the CCC) change order is approved), which could increase their velocity. The inclusion of these vendors could which could increase their velocity. The inclusion of these vendors can produce the velocity of the CCC of the could be compared to the CCC of the could be could be compared to the CCC of the could be could be could be compared to the could be could be could be compared to the could be		
72. The lack of the final agreement on the scope lose Fracca Finding - and coats of the Google Cool Platform Issue (IGCP) Change Request (CR) may lead to unstrictionated Usins, such edition, and on the need for reduce scope, and for the need for reduce scope.	8/23/2021 Freget Management	however, not all details were verticed at that point in time. In the July/August 2020 terreframe, Chica and the Asia greet on two all ESE environments to the Chica Stoke this, the scape has been algorized for the Chica Stoke the Line to the Chica Stoke the Line and Line an	maintenance of Good environments from the SIs to the ASI was included in the ACI/DISS SLOW CONTEXT Atmendment Historial in April 2020. The the ACI/DISS SLOW CONTEXT Atmendment Historial in April 2020. The S. July/August 2020 timeframe. Lift of lines in Sir this CR to be cost-resulted s. July/August 2020 timeframe. Lift of lines in Sir this CR to be cost-resulted within the SIS spatiation is being developed in the Cloud, clinical lines the specific services to be provided and by which vendor during the BIS DOI and Maintenance and Operations Phases have not been finalized.	"TO BE" mode for services beginning with the DOL through Info/Implementation and Jul and O. The Sol Sellowy (bocument the scope of work and cost for the COF CR, during DOL and IV and CD and provide to DOS when DH's will receive the GCP CR, 12/16/2021 Complete  When DH's will receive the GCP CR, 12/16/2021 Complete		4 4 High		\$13,120.22. The ASI submitted a detailed project impact analysis to DSI star provided a demonstration of the current emitted memory and provided as a provided as demonstration of the current emitted comment to DSI. The ASI is planning to provide DSI as CSI that and Flast Office (EMO) for review. So that the CSI is a planning to provide the CSI is a planning to provide the CSI is a planning and the CSI is a flast plant and the CSI is a flast plant and the CSI is a flast plant a florad document to DSIS in August 2002. NY concerns an increasing a three competence (Linearism's) certainty is provided in the competence (Linearism's) certainty is and the competence (Linearism's) certainty in this open recope trace has already responsibilities of the ASI, ESI and CSI. There are many possible impacts to the project rangely from contract changes to procurement and emissions of the project rangely from contract changes to procurement and emissions of the contract changes to procurement and emissions of the contract changes to procurement and emissions of the CSI and activities in the schedule to complete this work. STIL2022: NY has increased concerns robot the slow propress and back of detail arganding the GCP change request, as this has been in discussion since halp/linguist 2004. The ASI is added that their senior to task within the accept of the CSI and approved CCP decision is delaying security work. Asi is that material land to an issue and the critical procurity and exported the lack of an approved CCP decision is delaying as exclusion is High. 430/2022; *The ASI developed a Raugh Oliver of ASI Security Lead reported the lack of an approved CCP decision is delaying as exclusion by the ASI and ASI		S/H/2011 - RAP- Pair of clarification. The SOZPA agreement of clarification. The SOZPA agreement of clarification are stabilish that the project would be deployed to the Cloud SOZPA provided that in the Cloud and specification in the Cloud. The find decision to move the Cloud Text India Cloud
10 Insufficient configuration management Michael Fors   Finding - could last old orderposent confusion and are could last of orderposent confusion and reduce the effectiveness of defect recolution   Risk	8/23/2021 Configuration and Development	The Bit Bit COO Plan Deliverable, Section 3.2 establishes the framework for the Configuration Management Plan, however, it remails uncline it in difficient perges that been travel or stabilishing of any processes, selecting COI BitOS. The COO Plan Plan Plan COI Colong Request and Security Plan have yet to be finalized which may include additional requirements or decisions that could impact COI. The project currently relies on Gifful for tracking of some configurations.	ensures the BES is understood and works correctly. The BES solution includes tools that may provide a level of automation for Configuration	management tools and DHS work to fund and procure a CM tool, as	ASSP	2 2 tow	Open	OR/2012 - The AN i updated the Configuration Management Fain (CMP) and additional configuration management destine. OR/27/12 - De No Head additional configuration management destine. OR/27/12 - De No Head additional configuration management (CMI)		9/9/2011 - RAP: We look forward to receiving specific inquiries from the NAV team on configuration configuration amangement and having conversations with the property of the new to the part of the new to
28 Instifficient planning/lexecution of the BES. Dustin Health Finding - Security Plan active may less to believe may less to believe in Bisk in gaining Federal Partner approval for the BES Project to begin the Pilot Phase.	7/28/2021 Security and Privacy	Over the List serval months, the BSE project team has been working through the planning efforts to develop the E13 Security Plan while also managing through ASE security used staffing charges. DSEs and the ASE agreed to modify the B13 Security Plan of West Plan ASE and the ASE agreed to modify the B13 Security Plan Otherwise Despectation Document (DSD) last month and are currently revising it to align to the requirements and changes to the project since inception.	Pilot phase. There are many standards that must be met, and the project	collaboration with DRS DRS 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.	ASAP	4 S High	Open	of 27,1022 — NY recommend that Scrarity SMS: leading executly and privacy focusion who whospins and technical sections have a significant privacy focusion who whospins and technical sections have a significant privacy focusion who whospins and the section sections have a significant privacy focusion who whospins and the section of the section section of the section of the section section of the section of the section of the section section of the section of the section of the section section of the section section of the section sect		9/h/2021. RAP: The decision to move to GCF for deployment has driven the need for a complete reward for a complete reward for a complete reward for the security plan per IDF. The ASI is the process of

- Keporter	Finding	Identified Date Category	Observation	Significance	Recommendation	Event Horizon	Analy	t Finding	Status I Indate	at Comments	Vendor Commande
	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 possible	3 3 Med	Open	8/30/2022 - No change in status. Waiting on DHS acceptance/approval to		vendor comments
Section 508 compliance tool has not been Ris	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				move forward with purchase, installation, configuration, and		9/9/21 - RAP: The
installed for the Project, which may cause			tool installed and that Section 508 compliance testing has not been	The ADA Section 508 intent is to make electronic and information	The ASI communicates a plan for ADA test execution The ASI				implementation of the ASI recommended ADA compliance tool. 7/27/2022		has invited the IV
significant rework.			performed. This risk has been discussed with the ASI over the past several	technology accessible to people with disabilities ( e.g., color blindness,	communicates how the tool will be used to report compliance and non-				The ASI successfully completed the ADA compliance tool proof of concept		to make contact
			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				and provided reports to DHS for their review and approval. The final steps		the developmen
			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 "all applicable State and federal policies, laws, regulations, and Standards,	ASI communicates how and when DHS/IVV will be provided the reports from	1			remaining would be the purchase, installation, and implementation of the tool. 6/29/2022 - The ADA compliance tool is still in the trial phase and a		to review the re- of the desk-top t
			top tool for ADA compliance as an interim solution. IVV has not received any data to demonstrate the desk-top tool results nor if it provides coverage	"all applicable State and federal policies, laws, regulations, and Standards,	the ADA tool execution and how to interpret the results. Superseded 8/30/2021 - The ASI should gain DHS' approval on the tool selected after the				tool. 6/29/2022 - The ADA compliance tool is still in the trial phase and a compliance report will be run once the initial testing has been completed.		of the desk-top t gain insight. To o
			any data to demonstrate the desk-top tool results nor if it provides coverage for all ADA compliance items.	including without limitation the Electronic and Information Technology Accessibility Standards associated with Section 508 of the Rehabilitation	8/30/2021 - The ASI should gain DHS' approval on the tool selected after the ASI validates it will perform as expected within the BES architecture,	2			compliance report will be run once the initial testing has been completed.  The ASI is expected to provide results of the testing to DHS when the trial		
			tor all ALIA compliance items.	Accessibility Standards associated with Section 508 of the Renabilitation Act., which was verified in the ASI proposed Technical Requirements	meeting all contractual and project requirements. The ASI create and				phase is finished, and the report generated. 5/31/2022 - The ASI has		the IV&V has no contacted the
				Approach that states "The system complies with DHS branding standards as	meeting an contractour and project requirements. The Asi create and				identified an accessibility compliance tool that will meet the needs of the		development lea
				defined by DHS and adheres to W3C level 2 accessibility guidelines, sub-	action, how the tool will report compliance or non-compliance how non-				Project and DHS has approved opening a firewall to facilitate a		have further
				parts of Section 508 of the Americans with Disabilities Act (ADA),	compliance will be corrected, and how and when DHS/IVV will be provided				demonstration of that tool. The ASI completed a Proof of Concept for the		discussions on th
				nondiscrimination safeguards in 45 CFR 85.". If the Hawaii guidelines	the reports from the ADA compliance tool and how to interpret those				tool and now needs to 1) receive DHS approval to use the tool. 2) purchase		topic.
				(https://www.hawaii.edu/access/uh-guidelines-for-accessibility/), FNS	reports for the code from previous, current and future releases.				the tool, 3) configure the system to accommodate the tool, and 4) institute		
				Guidelines from the 901 Handbook, and contractual obligations to adhere to					the tool into the delivery pipeline. 4/26/2022 - The ASI is evaluating four		
				the Section 508 compliance guidelines (https;//section508.gov/) there may					ADA testing tools for consideration due to high pricing for the tool selected		
				be a significant amount of rework to the solution.					in March. This tool was demonstrated to the ASI and appeared to provide the required reporting features and the needed integration with the BES		
									the required reporting features and the needed integration with the BES		
									architecture. A second ADA tool under review has a proof of concept		
									scheduled for the week of 5/1/2022. The ASI has stated that little impact is		
									expected from the delay in performing ADA compliance testing and that a tool will be tested and selected shortly. 3/28/2022 - The ASI testing lead		
									tool will be tested and selected shortly. 5/26/2022 - The ASI testing lead		
									confirmed that an ADA tool has been selected for consideration and a demonstration held. Next step is to execute a proof of concept within the		
									BES application. To mitigate this risk, the ASI stated that problems identified		
									by a tool or through manual evaluation to Section 508 criteria for web		
									applications can be easily rectified with little impact to development and		
The lack of early planning and coordination Michael Fors Fin	Finding -	1/21/2021 Integration and	The following planning and execution items have not set been addressed	Interfaces is one of the areas where DDI projects often underestimate the	COEN 5 Complete all MOAr and obtain approval 6 Confirm testing dates	04 2021	4 1 low	Open	08/26/2022 - The statuses of the three remaining required agreements		
with interface partners may result in Ris	rinuing - Rick	Interface	and documented by the ASI - Connectivity is planned to utilize a presently	time needed to effectively manage all the tasks and activities to successfully	with interface partners in writing COMPLETE 1 Establish a communication	Q4 2021	4 I LOW	Open	(DAGS_DLIR_HYCE) have not changed_08/01/2022 - DHS executed the DPS		
schedule delays.		Management	undefined ETS API Gateway; however, there is no evidence that details have	implement data sharing. A clearly defined communication place and	plan for each interface partner for the duration of the BES DDI activities.				agreement (MOA) on 07/20/2022. The statutes of the three remaining		7/20/21 RAP - Th
		magement							agreement (MOA) on 07/20/2022. The statuses of the three remaining required agreements are as follows. The DAGS agreement is moving forward		team requests the
			active and sufficient communication with interface partners for	along with milestone dates may minimize the risk of possible delaws. In	COMPLETE 3/31/2022 3. Define a release schedule for each interface to				with design work. DHS reviewed the DLIR MOA and resubmitted it to DLIR		IV&V reassess the
			coordination, design, and testing activities (Unit Test, SIT. UAT) Interface	along with milestone dates may minimize the risk of possible delays. In addition, after planning has been completed, interface partners will have to	include milestone dates, coordination, and execution and share with the				with design work. DHS reviewed the DLIR MOA and resubmitted it to DLIR. The latest draft of the HYCF was sent to the DHS Directors' office with		severity of this ris
			planning and execution tasks and activities, including those for interface	be available during interface implementation to ensure that the interfaces	interface partners. 01/04 COMPLETE 4. Determine which deliverable will				feedback from BESSD and MQD. 06/30/2022 - There are 4 agreements		light of the follow
			partners, are neither resident nor managed within the Project Schedule	are properly tested before deploying the system to production.	include the details associated with the planned connectivity and detailed				outstanding (DAGS_DLIR_DPS_and HVCF). DHS plans to discuss the		rearons: a) the A7
			A mitigation plan has not been developed to address the unavailability of		technical designs of all interfaces. 01/04 COMPLETE				agreement at the next meeting with DAGS, which is tentatively scheduled		schedule extensio
			interface partners during interface implementation after MOAs have been approved, testing dates have been confirmed, and communications have						for 07/06/2022. DHS is currently reviewing the DLIR, DPS, and HYCF agreements. 05/31/2022 - There were no changes to the interface		has made the urg
			approved, testing dates have been confirmed, and communications have						agreements. 05/31/2022 - There were no changes to the interface		for tackling these
			been frequent.						communication plans in this reporting period. There are 5 agreements		tasks less than it i
									outstanding (DLIR, DPS, HYCF, DAGS, and CYRCA). DPS, HYCF, and DLIR have		before that starte
									all been drafted and are going through reviews with DHS and the interested		lessening the scho
									parties. DAGS has not been drafted by DHS; DHS is in discussions with the		risk, b) the increas
									Department of Tax for an interface that would bypass DAGS. The CYRCA		from Medium to F
									interface has been escalated within DHS as the business requirements		in May was based
									CYRCA meets are being evaluated by DHS executive management. IVV has		misunderstanding
									opened a new issue #79 related to vendor development delays for the task management software. 04/28/2022 - There were no changes to the		the current state
									interface communication plans in this reporting period. The DAGS, DLIR,		contact metrics, c
									DOH, and HYCF agreements are still outstanding. In addition, there is a new		substantial progre
									element to this risk regarding DLIR because the interface will not be able to		has made against o
									offer additional data elements which DMS needs 02/29/2022 - There were		of the In Progress
									offer additional data elements which DHS needs. 03/29/2022 - There were no changes to the interface communication plans in this reporting period.		recommendations
									02/25/2022 - There were no changes to the interface communication plans in this reporting period. 01/28/2022 - There were no changes to the		and it continues to
									in this reporting period. 01/28/2022 - There were no changes to the		trend in the right
									interface communication plans in this reporting period. Based on		direction. In regard
Poorly executed JAD and design sessions Brad Molina Fin	Finding -	11/30/2020 System Design	ASI-led Workflow JAD sessions have been held for CMM, with the following	The CMM Workflow JAD sessions restarted in November. DHS indicated	OPEN - The facilitator should use their expertise to drive discussions	ASAP	2 5 Med	Open	8/31/2022 - The ASI's addition of senior BAs to the design sessions has		
could lead to inaccurate design and rework. Iss	ssue		concerns being observed, - No clear introduction to all participants on the	some concern regarding the CMM Workflow JAD sessions, specifically; (1)	through leading questions BAs should come to Day one of Design Sprint				resulted in improvement. The Senior BAs offer guidance to ensure the		
			goal of the JAD, overview on the process and the importance of their	Do the JAD participants understand how the Case will be managed through	fully prepared to facilitate discussion on topic of sprint, with adequate				project team remains focused on the design. Unfortunately, one of the		9/9/21 RAP - The
			participation On many occasions the conversation needed to be driven by	workflow? (2) What improvements will be made in the new BES to support	knowledge about business process and approach for design based on				Senior BAs has left the project so it is unknown if this practice will continue		IV&V does particip
			leading questions, as expected, but was instead lead by business users -	the users and clients? Incomplete or unclear JAD sessions with insufficient	JAD/JAR notes and other pertinent material. Closed - JAD and design				for all BES design sessions. 7/31/2022 - Although the ASI has implemented		in many facets of t
			Too much pause time when participants did not know the answer to a	documentation could lead to a poor design, lacking the details needed to	sessions should be lead by experienced senior BAs, with goals, objectives				preparatory sessions for their Business Analysts (BAs) prior to design Sprint		deisgn process
			question; several occasions where complete silence on the call for 30 seconds or more - Lack of thought leadership from the ASI on how	support business requirements; as well as missing opportunities to improve workflow and related system design.	and results communicated to all participants. (additional Senior BA being				Day 1 NV continues to observe occurrences of RAs not being fully prepared		including screen m
			seconds or more - Lack of thought leadership from the ASI on how	workflow and related system design.	added, rest of recommendation being met - Closed 4/30/2022) - The DHS				for the initial session. DHS has also raised concerns that the ASI support		up reviews, backlo
			workflow could be designed to ease/improve process for client		and ASI product owners should actively participate to ensure the system meets the requirements, designed taking advantage of new technology and				admins are not always assigned to meetings, leaving the BA solely		grooming sessions and Sprint demo's
					meets the requirements, designed taking advantage of new technology and				responsible to lead discussions and capture notes, update artifacts, and		and Sprint demo's
					aligns to the 'to be' business process. (Closed 4/30/2022) - The ASI should back-track significant differences in design direction to determine the root				capture action items. DHS requested the ASI to address these concerns going forward. 6/30/2022 - The ASI continues to revise the Design Sprint		Product owner discussions are me
					back-track significant differences in design direction to determine the root				going forward. 6/30/2022 - The ASI continues to revise the Design Sprint		discussions are me to have limited
					cause to identify these items as early in the SDLC as possible. COMPLETE				process by engaging the DHS SMEs and ASI systems analysts earlier in the		
					The Product Owners should have more direct interaction with the development team, proactively seeking collaboration. 10/5/21 Complete -				process and conducting prep sessions with the ASI Business Analysts (BA) prior to each Sprint. These pre-sprint sessions with BAs are starting to		participation. The team is concerned
					The Constituted Device Devices Devices to Section 2015 The Constitute Device Devices D				prior to each sprint. These pre-sprint sessions with BAS are starting to		
					The Functional Design Document process, to include the Design Sprint concept, should be clearly defined and shared with all project team				address the remaining recommendations. IVV will continue to observe and look for impactful results from these latest changes to the process.		about the participation of the
					members. (Closed, 1/31/2022) - Invite IVV to all future design sessions and				5/31/2022 - The ASI instituted a new process to align ASI BAs to similar Use		IV&V for two main
					members. (Closed, 1/31/2022) - Invite IVV to all future design sessions and design sprints to allow IVV to observe and assess the effectiveness of the				5/31/2022 - The ASI instituted a new process to align ASI BAs to similar Use Cases to build knowledge of common business processes, strengthening		IV&V for two main reasons: 1) IV&V di
					revised design processes. (Closed, 1/31/2022) - ASI and DHS should work				their facilitation during design meetings. DHS Lead Product Owners are also		not always stay sile
					together to vet the in-progress design with all SMEs for the area of focus.				their facilitation during design meetings. DHS Lead Product Owners are also taking an active role to ensure the BES Design meets the requirements as		in discussions on
					(being met by new design sprint process, closed 2/28/2022) - ASI staff all				noted in this month's positive finding. 4/30/2022 - The ASI is working to		design despite
					design sprint meetings with additional support staff to ensure the meetings				mitigate the issues raised regarding inconsistent BA performance, including		assurances from ti
					are adequately documented and ASI Business Analyst are not running the				the migration of Senior BA to CMM team and providing additional		IV&V PM that it is i
					meetings alone. Complete 7/31/2022				training/onboarding for new BAs. Additionally, a System Analyst will		their role, and 2) IV
									participate in early days of design sprints to help with initial discussions of		participtation typic
									design. The IVV team and DHS look to observe improved facilitation in		drives what are me
									design sprints as these changes take effect. An additional recommendation		to be informal
Poor quality project deliverables may impact Brad Molina Fin	Finding -	4/16/2020 Project	In April, four Bi-10 design deliverables and one Interface Control Document	The staff time spent on reviewing deliverables is exceeding the plan for all	- IVV recommends that a facilitated root cause analysis be performed by the	Immediate	2 2 Low	Open	8/31/2022 - No material update for this reporting period. 7/31/2022 - The 06/30	0/2020 - New deliverables this month included BI-10 and BI-20. BI-10	.0
	Issue	Management	deliverable were submitted for client review. There was an average of 85	project entities and has caused schedule delays due to the associated	ASI with DHS and IVV in attendance. Quality issues are rarely generated by a	1			ASI plans to provide resources to develop and report on quality metrics, was in	initially called back for quality issues, and the issues were corrected.	7/30/21 RAP - The
system design, testing artifacts and the lss			comments submitted for each of these deliverables. The documents	rework needed for remediation. If poor quality deliverables continue to be	single entity in a project, so there could potentially be multiple causes or				which will be addressed in the CAP. 6/30/2022 - No significant change to DHS is	is not comfortable with BI-10 re-format, will be revised again.	team will review a
system design, testing artifacts and the lss project schedule.			exhibited erroneous information, a lack of a logical organizational flow, an	produced and submitted for review, this can continue to result in	root causes of this current condition. Once the root cause(s) are identified,				the status of this finding although ASI has assigned a resource to research a		respond to this iss
system design, testing artifacts and the lss project schedule.			insufficient level of detail, and a lack of understanding of the subject matter	unproductive use of time, unanticipated rework, misguided development	IVV recommends immediate action be employed to resolve quality concerns				solution for creating quality metrics. 5/31/2022 - The revised DDI process,		again when a mat
system design, testing artifacts and the less project schedule.			from both a functional and technical perspective. DHS logged this issue in	and testing activities, potentially unfulfilled functionality, and additional	on in-process deliverables prior to submission of subsequent deliverables]				in particular the design sprints, is bringing more focus and attention on		update is made by
system design, testing artifacts and the lss project schedule.				schedule delays.	Closed 7/30/2021 - ASI reviews its Quality Management Plan to ensure that	:			design documents, which has a positive effect on quality when measured by		IV&V. We also
system design, testing artifacts and the liss project schedule.			the Project Issue Log for corrective action by the ASI. The ASI acted by		the Project is working within the guidelines of this Plan document. In				the lower number of comments in deliverable reviews. IVV will validate this		recommend the
system design, testing artifacts and the lss project schedule.			the Project Issue Log for corrective action by the ASI. The ASI acted by conducting an internal root cause analysis and provided DHS and IVV the						metric is fully documented in the Quality Management Plan, when published		rethinking of the fi
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system design, leating artifacts and the to			the Project Issue Log for corrective action by the ASI. The ASI acted by conducting an internal root cause analysis and provided DHS and IVV the		particular, the ASI should evaluate and consider if it is in alignment with Section 3.12 Measure Project Casally, which states, ASI measures process and product quality by 11 selecting BSI implementation process and product statistics to measure, 21 selecting component activities to measure, 21 selecting component activities to measure, 21 selecting component activities, 11 measure activities to measure activities and exact selection selections are activities and exact selection selections are activitied and exact selections are selected activities where the activities water, and 50 containing the recorded arthorist values to a single when ASI is callising metrics to measure its process and product quality. As when the ASI is callising metrics to measure its process and product quality and when the ASI is calling metrics to measure its process and product quality. Asi when the ASI is calling metrics to measure its process and product quality and when the ASI is calling metrics to measure its process and product quality and when the ASI is called the ASI is a support to the ASI is a su				awalts updates to the Cautily Management Plan. 3/20/2022. When includes film tast results are publisher. We will re-evaluate the finding- shictane film tast results are publisher. We will re-evaluate the finding- shictane film tast results are publisher. We will re-evaluate the available metrics. The intital results show a positive trend, which is concuraging since Release 0.6 has the most complex functionality developed and tested by the project team to date. If the number of defects starbhinder to design remain low threegolds release 0.6 bestime, the focus of starbhinder to design remain low threegolds release 0.6 his film focus of and defect validation progress. VM r not cause recommendation is complete. If remaining existing for all size cheeses in Release 0.6 shows a low cause of defects from design, the primary concern of this finding should provide curvay on overall defects, specifically on those related to design. and defenses 1.273/2023. The complication of Release 0.6 stems included provide curvay on overall defects, specifically on those related to design.		recommendation based on the assessment from 1 IV& that this is a risk. The tone, ten and substance of t recommensation is of step with a risk perceived by the II for a number of months now to be low. 4/23/21 rap - The team agrees that t

Finding	Identified	Observation	Post of the second seco	B	and the date of the control	Analy	st Finding	fine the day	Charles	Manday Communication
Title Reporter Type The COVID-19 pandemic and the related Michael Fors Finding -	Date Category 3/29/2020 Project	Observation On 3/23/2020, the Governor of Hawaii issued a "stay at home, work from	Significance DHS stakeholder participation in key activities could be significantly	Recommendation Event - Continue to make efforts to setup, train, and assist new stakeholders on ASAP	ent Horizon Impact AP 7	Probability Prior 2 2 Low	ty Status Open	Status Update  08/30/22 - No material update for this reporting period. 07/31/22 - No	Client Comments  06/30/2020 - Office opening may be delayed until September/October.	Vendor Comments
"stay at home" order could hinder project Risk	Management	home" order that has reduced state departments' ability to be fully	hindered, not only by working remotely but also by the need to focus on	remote work devices and tools and continue to assist stakeholders with	-			material update for this reporting period. 06/30/22 - The ASI has stated	TBD.	7/30/21 RAP - The A
activities and negatively impact the project		functional as the large majority of state workers will be required to work	delivering services to beneficiaries. Planned key activities such as design	becoming highly functional with remote access technology (e.g. MS				they have removed the vaccination requirement for working in person and		agrees that COVID a
schedule and budget.		from home/remotely at least until the end of May and some offices may be	sessions may be facilitated remotely which may impact the quality of the	Teams/Skype) Complete - Suggest the project and DHS create a detailed,				are encouraging staff to spend time in the office. DHS team members are		this time is likely a l
		completely shut down until that time as well. Unclear if the order will	sessions. Going forward, most if not all project activities will more than	documented risk mitigation strategy and plan that is reviewed regularly and				still not required to work in the office but DHS is also encouraging office		risk to both schedule
		extend beyond that date.	likely be conducted remotely until this crisis passes. The DHS project team will soon lose some key members of the PMO, the PMO lead will retire on	revised to address the current state of the COVID-19 threat and related impacts Update the OCM Plan to include any new activities or updates to				time. Three DHS team members currently work out of the ASI's downtown Honolulu office. 05/31/22 - The ASI and their subcontractor are making		and budget for the project despite som
			4/30/20 and another key member in June 2020. DHS has concerns that the	impacts Update the OLM Plan to include any new activities or updates to				efforts to increase in-office/in-person work which could help to increase		increases related to
			state could experience a significant loss of revenue due to COVID, which	in the short and long term Complete - Send broad communications to				productivity and communication as well as overall quality of project work.		the delta variant. Th
			could lead to DHS budget challenges. If the state/DHS institutes a hiring	stakeholders to assure clear understanding of changes to the Project with				04/29/22 - No material update for this reporting period. 03/31/22 - State		ASI team continues t
			freeze, DHS PMO may not be able to replace these key resources.	regard to impacts of COVID, as well as clarifying communications as to what				leadership has rolled back most COVID mandates this month, however, mo	t	maintain social
			Additionally, if the state institutes furloughs, DHS project team resources could be further constrained. Unclear if the state budget challenges will	will remain the same Explore options for freeing up key BESSD SME's to work on the project Complete - Project leadership continue to encourage				individual State departments have been given the option of not requiring		distancing in the offi
			impact overall project funding.	work on the project Complete - Project leadership continue to encourage independent phone conversations to enhance and accelerate				their staff to work in-person. DHS will likely maintain remote work policies for the foreseeable future. IVV recommends DHS consider strategically		in line with State mandates. However.
				communications, and for team members to not wait for meetings to				requesting in-person meetings for discussions that can be significantly mor		the team has
				converse.				productive in-person. 2/28/22 - The State of Hawaii is planning on		essentially reached
								eliminating most COVID mandates as of 3/5/22. In-person meetings could		the new normal in
								improve collaboration for design and other sessions, if the Project elects to increase in-person meetings. 1/31/22 - The ASI has reaffirmed that remot		Honolulu. This includes fewer
								meetings are a less effective form of communication than in person		resources travelling
								meetings are a less effective form of communication than in-person meetings and therefore, COVID continues to have a negative impact on the		and more conference
								quality of some project activities, albeit difficult to quantify. 12/31/21 -		calls; however, the
								Though Omicron COVID cases are surging, the project has indicated they d		project has adjusted to the lack of in
								not plan to make changes to current protocols and do not expect this surge will materially impact the project. 11/29/21 - The ASI has transitioned		person meetings. In
								their team from working remotely to primarily working in their Honolulu		our off-shore office,
								office as of October 2021. It remains unclear whether the new COVID.		we still have staff
								variant (Omicron) will disrupt project activities. 10/28/21 - No material		working from home
B DHS PMO project team members have Ryan Tan Finding - transitioned off the Project, which may Issue	1/10/2020 Project	As reported in various project meetings, several key DHS PMO, BES and ASI	The key resources leaving the BES Project provide knowledge and history of	2/28/2022 - DHS consider other options (Contractors, State employees ASAP	AP 3	3 5 High	Open	8/31/2022 - DHS continues to seek applicants for the three PMO positions	02/08/2021 - Brian Donohoe does not agree with IVV's high-criticality ratio	ng 4/23/21 RAP - From
transitioned off the Project, which may Issue	Management	project team members are planning to retire or leave the project within the	DHS and its software, solutions, and business processes, along with a level of consistency and continuity to the extended project team. This experience	borrowed from other agencies) to fill these positions if there is ongoing				these positions remain unfilled. 7/29/2022 - DHS has received minimal applications for the open PMO positions therefore, they may fill the	on this Finding (#43) and DHS rolled out the DHS Product Owner Roles and Responsibilities to the DHS team on January 29, 2021. (Gary provided the	the ASI perspective, the changes to the
cause gaps in knowledge transfer and leadership on the Project.		are plans and artions being taken, a formal transition/succession plan has	and knowledge is critical for the RES DDI and KOLEA Modifications, and	with the appropriate organizations to identify the funds necessary to fill				applications for the open PMO positions therefore, they may fill the positions with contractors. IVV does not have visibility to the full impact of	Final DHS Product Owner Roles and Responsibilities document to IVV on	the changes to the project managemen
		not been documented. In January, the ASI did announce and introduce an	planning efforts for BES Maintenance and Operations activities.	these positions In progress The state should document a transition plan				the delay in filling these positions. However, some of the administrative an	02/8/2021), 06/30/2020 - Mark Choi is becoming more involved in the	of the BES project
		interim Project Manager, but a plan for a permanent replacement is not	planning efforts for BES Maintenance and Operations activities.  Additionally, as per the budget, DHS stated if they are unable to fill these	for the project and PMO resources as identified in the RFP (reference RFP				contract management activities are significant so DHS assigned these	project. Involved in Arch decisions and PM decisions around tool sets,	have provided little
		currently known.	positions timely, DHS may fall out of federal funding compliance and lose	section 3.4.3 'DHS Staffing'). The plan should include the possible COVID-19				activities to internal staff on an interim basis. 6/30/2022 - DHS continues	future vision, etc. Day to day PM working closely w/ Gary and Emerald. W	e impact on the overal
			the \$37 million needed matching funds for continued development of BES.	economic impact to the state budget, directly in relation to the project				recruit for PMO resources. No other material updates for this reporting	have no insight into other DHS staffing.	project. At this point
				resources Closed The ASI should document a transition plan for each key resource as required by the RFP (reference RFP section 3.5.1.2 'Benefits				period. 5/31/2022 - DHS continues to recruit for PMO resources, but the three positions remain unfilled. However, some PMO responsibilities are		the knowledge transfer gaps have
				Eligibility Solution Project Staffing'.) - Closed				being addressed through existing resources. For example, the contracted		been closed and the
								DHS PM has filled in leadership gaps and and has positively impacted the		leadership of the
								Project. 4/28/2022 - No material updates for this reporting period.		project remains stro
								3/31/2022 - DHS continues to recruit for these positions but received minimal interest to-date. 2/28/2022 - DHS posted the PMO positions but		hands from DHS. We
								are having difficulty identifying candidates. While online metrics show		recommend that the IV&V reassess the
								there is interest and the positions are being viewed, as of this date, there		probability of impac
								has only been one application. 1/28/2022 - No material updates in this		and severity of impa
								reporting period. 12/30/2021 - No material updates in this reporting		and lower the overal
								period. 11/26/2021 - No material updates in this reporting period.		rating for this
								10/31/2021 - No material updates in this reporting period. 9/30/2021 - TR BESSD Administrator, serving as the interim DHS BES Project Manager	e	risk.3/3/2020 - The ASI PM stated the
								resigned from DHS. To mitigate the knowledge and leadership risk, DHS		Project Coordinator
								backfilled the DHS BES Project Manager with a contractor possessing		porition is filled and
								backfilled the DHS BES Project Manager with a contractor possessing extensive BES project experience. The Assistant BESSD Administrator will		they will begin work
							provide an active decision-making role in the project. IVV will monitor the		on 3/9/2020,	
							impact of these project management changes. The remaining DHS PMO positions continue to be unfilled. 8/30/2021 - No material update in this		transition activities from Donna will beg	
Uncertainty and/or a lack of communication Michael Fors Finding -	5/28/2019 Project	Some platform and BES rurtem architecture decisions have set to be made	The current project architecture and design should be as representative and	- The ASI continue to make updates to the BI-12 System Architecture ASAP	AD 2	2 2 Low	Open	8/30/22 - No material update. 7/31/22 - IVV remains concerned with the	06/20/2020 - Combined application is still planned. Ann still not finalized	Hom bonna win beg
around long term architecture decisions Issue	Management	and socialized to the project. For example, the ASI and DHS have stated that	t inclusive of all known future solution plans as possible. As an example, if	Deliverable with additional details as they become available and with any	~ .	1 100	Орен	lack of clear communication around the planned configuration managemen		4/23/21 rap - The At
could impact the project budget, schedule,		they have reached agreement that the project will move forward with	KOLEA and BES are to move to a single instance of Siebel in the future,	architectural changes are finalized Complete - DHS should finalize the				tool and its intended use. DHS prefers Service Now but it is currently not	Integration of the portals is still to be determined, but is not more complex	and DHS continue to
system design, and planning decisions.		implementing two Siebel instances (one for KOLEA, one for BES), but this is	planning for that integration should be incorporated into the project now. If	Portal strategy and implementation details and communicate clearly				funded, and IVV is unaware of contingency plans in the event Service Now	than originally planned for data sharing. If change is made to Adobe, this	refine the final plan
		not currently reflected in the project change log or the project decision log.	such significant future changes are not planned for now, the project is likely to see increased complexity, rework, and costs when integrating the two	communicate out to stakeholders and project teams. Complete 3/31 - The				funding is not approved The project is currently assessing the additional level of effort that will be required to comply with the latest revision	would require a CR.	for the two portal
		for integrating the two instances post go-live have been thoroughly vetted	to see increased complexity, rework, and costs when integrating the two	rightform (e.g. ADA Configuration Management tools), MandO, MAD, and				(Revision 5) of Enderally required recurity controls INV is concerned that		vision. We expect th
		and/or documented. Further, there may be some uncertainty around	systems in the rotale.	platform (e.g., ADA, Configuration Management tools), MandO, MQD, and BES systems before finalizing architectural decisions DHS continue to				(Revision 5) of Federally required security controls. IVV is concerned that the move to Revision 5 and potential impact to the project architecture has		final decisions will likely be made durin
		whether when/if all environments (including KOLFA and RFS production)		request ASI perform due diligence in any recommendation for foundational architecture change decisions and continue to review with appropriate DHS						this reporting period and communicated t
		will be moved to the cloud.		architecture change decisions and continue to review with appropriate DHS				stated that their cloud infrastructure will continue to evolve as the		and communicated t
				stakeholders to assure a common understanding of the implications of these decisions The Project should continue to ensure communication between				technology improves or the cloud provider(s) make changes and that some architecture decisions have yet to be finalized (e.g., use of Splunk vs.		the project. The ASI refers the IV&V to or
				development leads and architecture leads to assure optimal collaboration				Dynatrace). IVV has little to no visibility into whether these changes are		February update
				on possible architecture changes that could impact decisions in each area.				being effectively communicated to, or vetted by, the right stakeholders.		regarding
				Maintain current communication processes to ensure regular				Further, the Project has previously stated their intention to utilize		Recommendation #3
				communication between the architecture team and the rest of the project				ServiceNow (SN) for Configuration Management (CM), however, it remains		From our perspectiv
				team to assess impacts of architecture decisions to the Project.				unclear if progress has been made on finalizing this decision, how it will be		all necessary actions
								used, how it will be licensed, division of responsibility between the ESI/DHS/ASI, and the status of funding for licenses. 5/31/22 - The ASIs		are complete. If the IV&V does not believe
								addition of resources including backfilling of key positions may help to		it is Complete we
								increase communication of architecture changes. The ASI stated they are		request supporting
								evaluating the benefits of moving the BES portal (SSP) off Oracle DBMS.		detail.
								4/29/22 - The ASI OCM team is developing a communication plan for communicating the 2-portal strategy, which may include a portal overview		4/23/21 rap - The At
								walkthrough with the project team and videos prepared for DHS		and DHS continue to
								stakeholders. 03/31/22 - The ASI has onboarded a new Lead Architect who		refine the final plan
								will be responsible for managing the system infrastructure which should		for the two portal
								improve clarity around governance, capabilities of the different		vision. We expect th
	11/28/2018 Project	Based upon the project schedule dated 11/26/18 (refer to schedule for	Late deliverables can lead to schedule impacts and too many late	IN PROGRESS Despite not yet having a revised baseline schedule, continue TBD	D 3	3 3 Med	Open	8/30/2022 - The ASI is behind schedule with development activities which will impact the critical path. Without an approved schedule, it is difficult to		7/20/21 RAP - The A will continue to refir
Late delivery of project deliverables has Ryan Tan Finding -		the date of this report, these deliverables include the Project Management	f deliverables may cause significant disruption to schedules or delays.  ***OLD***Without a PMP that depicts all Project Management processes,	nath. COMPLETE 5/31/2021 - When the revised schedule is published the				will impact the critical path. Without an approved schedule, it is difficult to determine what is behind schedule and what impacts late deliverables or		will continue to refir the published
Late delivery of project deliverables has Ryan Tan Finding - caused schedule delays. Issue			the Project can suffer unplanned consequences in scope, schedule, cost, and	project team should restart the weekly practice of reporting actions being				activities will have to project deadlines. 7/29/2022 - Fewer project		schedule based on
Late delivery of project deliverables has Ryan Tan Finding - caused schedule delays. Issue		Plan (PMP), which is the formal document that is used to manage the		taken for late tasks and develop mitigation plans for those tasks that may be				deliverables are delivered late, and critical path activities do not appear		feedback from DHS
Late delivery of project deliverables has Ryan Tan Finding - caused schedule delays. Issue		Plan (PMP), which is the formal document that is used to manage the execution of the project. In some instances, this risk may be compounded by	quality parameters. Without a schedule that provides the required level of					impacted when this happens since they are not dependent on those		and the IV&V while
Late delivery of project deliverables has Ryan Tan Finding - caused schedule delays.		a backlog of Deliverable Expectation Documents (DED) requiring approval	y quality parameters. Without a schedule that provides the required level of detail to manage the work, the project is at risk to be successful.	late Complete 4/30/2021, 7/29/2021, 12/30/2021 - DHS and the ASI						
Late delivery of project deliverables has Ryan Tan Finding - caused schedule delays.		Plan (PMP), which is the formal document that is used to manage the execution of the project. In some instances, this risk may be compounded by a backlog of Deliverable Expectation Documents (DED) requiring approval and acceptance from the State.	y quality parameters. Without a schedule that provides the required level of detail to manage the work, the project is at risk to be successful.	late Complete 4/30/2021, 7/29/2021, 12/30/2021 - DHS and the ASI agree to a revised schedule against which project deliverables can be				deliverables. For example, development delays found in Finding #80 do no		work through the fin
Late delivery of project deliverables has Ryan Tan Finding - caused schedule delays.		a backlog of Deliverable Expectation Documents (DED) requiring approval	q quality parameters. Without a schedule that provides the required level of detail to manage the work, the project is at risk to be successful.	late Complete 4/30/2021, 7/29/2021, 12/30/2021 - DHS and the ASI agree to a revised schedule against which project deliverables can be managed. 9/30/2020 Recommendation - IVV recommends the project team				deliverables. For example, development delays found in Finding #80 do no appear to be caused by late deliverables. Schedule impacts from late		change request for t
Late delivery of project deliverables has Ryan Tan Rinding - caused schedule delays:		a backlog of Deliverable Expectation Documents (DED) requiring approval	quality parameters. Without a schedule that provides the required level of detail to manage the work, the project is at risk to be successful.	late Complete 4/30/2021, 7/29/2021, 12/30/2021 - DHS and the ASI agree to a revised schedule against which project deliverables can be managed. 9/30/2020 Recommendation - IVV recommends the project team evaluate the estimating process to determine if changes should be made to				deliverables. For example, development delays found in Finding #80 do no appear to be caused by late deliverables. Schedule impacts from late deliverables are minimal during this stage of the Project as opposed to the		change request for t ATC which is nearing
Late delivery of project deliverables has Pipa Tan Finding- caused schedule delays.		a backlog of Deliverable Expectation Documents (DED) requiring approval	quality parameters. Without a schedule that provides the required level of detail to manage the work, the project is at risk to be successful.	late Complete 4/30/2021, 7/29/2021, 12/30/2021 - DHS and the ASI agree to a revised schedule against which project deliverables can be managed. 9/30/2020 Recommendation NV recommends the project team evaluate the estimating process to determine if changes should be made to reduce the number of late tasks and or conduct a root cause analysis to determine and address the root cause(s) Closed 8/31/200				deliverables. For example, development delays found in Finding #80 do no appear to be caused by late deliverables. Schedule impacts from late deliverables are minimal during this stage of the Project as opposed to the planning/Initiation stages where deliverables directly impacted subsequent activities. Given the reduced impact this finding has on the Project, IVV is		change request for t ATC which is nearing completion. Regardi the recommendation
List editively of project deliverables has Pipa Tan Finding- caused schedule delays.		a backlog of Deliverable Expectation Documents (DED) requiring approval	qualify parameters. Without a schedule that provides the required level of detail to manage the work, the project is at risk to be successful.	late Complete 4/30/2011, 17/3/2021, 12/30/2012 - OHS and the ASI agree to a reviside schedule against with project deliverable can be managed. 9/30/2020 Recommendation - NV recommends the project team evaluate the estimating process to determine if changes should be made to reduce the number of late tasks and conduct a rote cause analysis to determine and address the root cause(s) Closed \$3/1/2020 Recommendation: - Prior to accessed of the new baseline. finalities the				deliverables. For example, development delays found in Finding 880 do no appear to be caused by late deliverables. Schedule impacts from late deliverables are minimal during this stage of the Project as opposed to the planning/initiation stages where deliverables directly impacted subsequent activities. Given the reduced impact this finding has on the Project, IVV is lowering the criticality rating to Medium." IVM has separate findings for the lowering the criticality rating to Medium." IVM has separate findings for the medium of the control of the control of the control of the medium of the control of the control of the medium of the control of the control of the medium of the control of the medium of the control of the medium of medium of		change request for t ATC which is nearing completion. Regardi the recommendation Recommendation #3
List delivery of project deliverables has Ryan Tan Finding - country schedule delays.		a backlog of Deliverable Expectation Documents (DED) requiring approval	quality parameters. Without a schedule that provides the required level of detail to manage the work, the project is at risk to be successful.	late Complete 4/30/2011, 17/3/2021, 12/30/2012 - OHS and the ASI agree to a reviside schedule against with project deliverable can be managed. 9/30/2020 Recommendation - NV recommends the project team evaluate the estimating process to determine if changes should be made to reduce the number of late tasks and conduct a rote cause analysis to determine and address the root cause(s) Closed \$3/1/2020 Recommendation: - Prior to accessed of the new baseline. finalities the				deliverables. For example, development delays found in Finding 1880 do no appear to be caused by late deliverables. Schedule impacts from late deliverables are minimal during this stage of the Project as opposed to the planning/initiation stages where deliverables directly impacted subsequent activities. Given the reduced impact this finding has on the Project, IVII's lowering the criticality rating to 'Medium'. IVI's superarts findings for the ISI-5 Projects Schoule and BH-13 Security Plan deliverables. 6/BJ/0022 - IVIII		change request for t ATC which is nearing completion. Regardi the recommendation Recommendation #3
Lite delivery of project deliverables has Pipa Tan Finding - caused schedule delays.		a backlog of Deliverable Expectation Documents (DED) requiring approval	quality parameters. Without a checkule that provides the required level of detail to manage the work, the project to at risk to be successful.	Inte. Compiler 4 (30) (2011, 73) (2011, 123) (2011, 105) and the ASI agree to a revised scholar against with rip oper deliverables can be managed. 930 (2012) Recommendation. **O' recommends the project stars and examination that the project stars and examination that the scholar process to determine if changes should be made to reduce the number of last tasks and or conduct a root cause analysis to reduce the number of last tasks and or conduct a root cause analysis to reduce the number of last tasks and or conduct a root cause analysis to reduce the number of last tasks and or conduct a root cause analysis to reduce the number of the star down conduction of the reduced tasks and the reduced tas				deliverables. For example, development delays found in Finding 800 do no appear to be caused by late deliverables. Schedule impacts from late deliverables are minimal during this stage of the Project as opposed to the planning/limitation stages where deliverables directiv impacted subsequent activities. Given the reduced impact this finding has on the Project, IVI is lowering the critically rating to Medium. IVI has separate findings for the 81-5 Project Schedule and 81-13 Security Plan deliverables. (§18/2022 - This AS continues to monitor project activities that may impact the critical pair		change request for t ATC which is nearing completion. Regardi the recommendation Recommendation #1 Based on progress made to date, the AS
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