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July 19, 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 <u>http://ets.hawaii.gov</u> (see "Reports").

Sincerely,

Injula 2

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: May 1 – 31, 2022

Submitted: June 14, 2022



**Solutions that Matter** 

#### **Overview**

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

## **Executive Summary**



#### **Executive Summary**



The inability of the BES Project Team to develop and deliver to a planned schedule continues to be at the forefront as a significant risk to the project. The ASI presented a revised schedule to DHS for their approval, yet delays have already been communicated by the ASI in the development of Release 8, meaning further changes to the schedule are imminent.

The lack of resources to effectively plan, manage and deliver the required security and privacy requirements along with the lack of progress on developing the GCP change request are two other significant risks to the project. Although some actions are being taken, it is unclear if these risks will materialize into further delays or costs to DHS.

On a positive note, the DHS Lead Product Owners are making an impact in the design process. Their active contributions and leadership have ameliorated some of the IV&V concerns raised. The ASI made further adjustments to the design sprint process and staffing assignments in response to lessons learned. IV&V will continue to report on the results of these improvements.

Mar	Apr	Мау	Category	IV&V Observations
н	Ŧ	Ŧ	Project Management	IV&V raised the GCP change request finding to a High-criticality rating. The unapproved project schedule and the probability of needing additional time to complete the Project also inform the criticality rating for this category This category has been at a high criticality rating since July 2020 (23 months).
м	M	M	System Design	The Design Sprint process continues to show increased effectiveness. IV&V added a positive finding this reporting period to highlight the contributions of the DHS Lead POs to the design sprints. As more use cases go through design, the ASI continues to refine and adjust the design sprint process.

#### **Executive Summary**



Mar	Apr	Мау	Category	IV&V Observations
М	М	М	Configuration and Development	IV&V continues to see inconsistent use of the SDLC process causing confusion within the project team. IV&V awaits the expected benefits from the reassignment of ASI leads and added architects to improve communication of the SDLC.
L	L	М	Integration and Interface Management	Coordination of needed changes with two interface partners is currently being discussed and may result in schedule impacts. Additionally, the "Current" task management application is also under review to determine if the interface partner can meet the requirements within the planned timeframe for BES.
М	M	М	Testing	The ASI mitigated the risk related to the number of defects found in testing, and we have retired the related finding. An accessibility tool to measure ADA compliance passed a Proof of Concept and the ASI is planning a BES demonstration.
н	Н	Н	Security and Privacy	The DHS Security Analyst departed as expected in the reporting period and the IV&V risk has been classified as a High-criticality issue. The ASI continues to try to fill their open Security Architect position. IV&V remains concerned with the lack of key security resources from both the ASI and DHS.



As of the May 2022 reporting period, PCG is tracking 16 open findings (7 risks, 9 issues) and has retired a total of 56 findings. Of the 16 open findings, 7 are related to Project Management, 2 in Integration and Interface Management, 2 in Testing, 2 in System Design, 1 in Configuration and Development, and 2 in Security and Privacy. The Positive finding in System Design does not appear in these charts.



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
60	Risk – System Integration of the BES Modules (CMM, FMM, SSP) will be developed in the later releases vs. a continuous integration model within each release which may cause schedule delays. The ASI remains confident that the efforts they've made to mitigate this risk, including planned completion of some integrations earlier in the schedule and stubbing out some interfaces that return dummy data, will prove sufficient. IV&V has retired this finding based on actions taken by the ASI.	Integration and Interface Management
66	Issue – The number of issues/defects found during testing may cause planned work in the future sprints to be delayed due to the resolution and retesting of issues/defects. The ASI addressed this finding by instituting the quality metric Defect Leakage as a standard testing metric. This metric is evaluated during testing meetings and shows defects are identified early in the testing cycle. The ASI categorizes defects by Root Cause to help with understanding and correcting behaviors contributing to introducing defects. Corrective actions have been taken by the ASI that resulted in documenting fewer defects. This finding is retired with an understanding that the Project continues to monitor the quality metric for Defect Leakage throughout the project lifecycle. If the current positive trend of identifying defects earlier in the testing lifecycle does not continue IV&V will open a similar finding.	Testing
	Note: Defects categorized as "Not a Defect" are being evaluated by IV&V to determine if they have been correctly categorized.	



# Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
70	Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution. No material update in the reporting period.	Configuration and Development



#### Findings Opened During the Reporting Period

#	Finding	Category
78	<ul> <li>Positive – DHS Lead Product Owners demonstrate effective leadership</li> <li>Observation: The lead DHS Product Owners show strong leadership skills during the daily design sprints, which positively impact the outcomes of these meetings. In design sprints where the meeting facilitator was struggling, the PO leadership moved the conversation in a direction that drew out needed information regarding the design/use case at hand. The DHS POs are more assertive regarding their input on the proposed design and use their deep experience with DHS business processes to make sure the design aligns with the needs of DHS. The POs have shown to be highly motivated to make these sprints successful for the Project and DHS. The DHS PM's strong support and contributions to the revised Design Sprints, and related support for lead Product owners, has directly impacted the process in a positive way.</li> <li>Significance: The Use Cases and Functional Designs may not align with the needs of DHS without the strong contributions of the Product Owners. IV&amp;V observes positive approval from SMEs and other product owners during prototype meetings and importantly, approval to move forward to development, keeping the overall Project progressing. The contributions by the Lead POs has also helped mitigate the open finding around Design Sprint facilitation (Finding 61) by getting the conversations started and ensuring it stays focused on DHS requirements. Confusion regarding the DDI process (Finding 16) is also mitigated occasionally by Lead POs, who in many cases have a much deeper level of experience with the design sprint process and lead the team through required steps and rituals.</li> </ul>	System Design
	ensuring it stays focused on DHS requirements. Confusion regarding the DDI process (Finding 16) is also mitigated occasionally by Lead POs, who in many cases have a much deeper level of experience	



#### Findings Opened During the Reporting Period

#	Finding	Category
79	<ul> <li>Issue – External vendor delays in development of the BES task management system (Current) interface have impacted the project schedule. Criticality Rating - High</li> <li>Observation: The BES Project expected the C!A developed Current interface (aka., webhook) to be completed by 04/07/2022. C!A reported that the webhook development work would be done by 05/27/2022. As of 05/25/2022, the ASI has not received any status from C!A. The webhook is currently holding up the design of the CF44 – Manage C!A Data use case for Release 0.8.</li> <li>Significance: Current (previously known as ePathos) is a task management system developed by the Change and Innovation Agency (C!A). The Department of Human Services (DHS) uses the Current system to manage and create case related tasks. The Benefits Eligibility Solution (BES) will interface with the Current system to manage tasks. The ASI has stated that webhook is required before some critical path development tasks can commence.</li> </ul>	Integration and Interface Management

Recommendations	Progress
Ensure that there is an agreement between DHS and C!A to address roles/responsibilities and outcomes.	Not Started
<ul> <li>Schedule recurring meetings with C!A to ensure consistent communication between the DHS, the ASI, IV&amp;V, and C!A.</li> </ul>	Not Started
Reconfirm testing dates with C!A and update the Current Interface Communication Plan.	Not Started

#	Key Findings	Criticality Rating
2	<b>Issue – Late Delivery of project deliverables has caused schedule delays</b> . The Project continues to refine SDLC processes to improve project schedule estimates. Although the schedule has not been approved, the ASI continues to monitor project activities that may impact the critical path and conducts meetings to address late tasks. The ASI has reported delays in development that may impact the project schedule.	Н

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



#	Key Findings	Criticality Rating
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. The ASI's addition of resources including backfilling key positions may help to increase communication of architecture changes. The ASI stated they are evaluating the benefits of moving the BES portal (SSP) off Oracle DBMS.	L

Recommendations	Progress
<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



#	Key Findings	Criticality Rating
43	Issue – DHS PMO project team members have transitioned off the Project, which may cause gaps in knowledge transfer and leadership on the Project.	
	DHS continues to recruit for PMO resources, but the three positions remain unfilled. In the interim, some PMO responsibilities are being addressed by existing resources. For example, the contracted DHS PM has filled in leadership gaps and has positively impacted the Project.	Н

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. The ASI and their subcontractor are making efforts to increase in-office/in-person work which could help to	L
	increase productivity and communications as well as the overall quality of project work.	

Recommendations		Progress
•	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.	In process
•	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.	In process
•	Project leadership continue to encourage independent phone conversations to enhance and accelerate communications, and for team members not wait for meetings to converse.	In process

#	Key Findings	Criticality Rating
	Issue – Poor quality project deliverables may impact system design, testing artifacts and the project schedule.	
49	The revised DDI process, in particular the design sprints, is bringing more focus and attention on design documents, which has a positive effect on quality when measured by the lower number of comments in deliverable reviews. IV&V will validate this metric is fully documented in the Quality Management Plan, when published by the ASI.	L

Recommendations	
<ul> <li>ASI review the Quality Management Plan to ensure that the Project is working within the Quality guidelines. particular, the ASI should evaluate and consider if it is in alignment with Section 3.1.2 Measure Project Quali 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 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>	ty, n In Process
ASI verify that the information in design and testing artifacts is kept in sync and consistent.	Complete

#	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	IV&V has increased concerns about the slow progress and lack of detail regarding the GCP change request, as this has been in discussion since July/August 2020. The ASI stated that their work on tasks within the scope of the CR is 'at risk' and may need to stop, pending the CR approval. Based on the ASI Security Lead's report that the lack of an approved GCP decision is delaying security work, this risk has materialized to an issue and the criticality rating is escalated to High.	Н

Recommendations		Progress
•	The ASI should document the current environment M&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&O.	In process
•	The ASI clearly document the scope of work and cost for the GCP CR during DDI and M&O and provide to DHS for approval.	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	A draft project schedule was submitted for DHS approval. It incorporated additional DHS resources into the design sprints and extended the duration of Final Acceptance Testing from 40 to 60 days. DHS approval of this schedule is anticipated in June 2022. IV&V remains concerned with the accuracy and validity of the BES Project schedule due to past performance of the ASI and known current development delays.	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. IV&V updated this finding from a preliminary concern to a risk in this reporting period. The draft schedule plans for multiple releases in the testing phase which may stretch the DHS test team to the point where they request to return to their operations positions. DHS is activity working to mitigate this risk by identifying and instituting retention/incentive policies/practices.	М

Recommendations	
Consider adding DHS resources as needed.	In process
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. There were no changes to the interface communication plans in this reporting period. There are 5 agreements outstanding (DLIR, DPS, HYCF, DAGS, and CYRCA). DPS, HYCF, and DLIR have all been	
	drafted and are going through reviews with DHS and the interested parties. DAGS has not been drafted by DHS; DHS is in discussions with the Department of Tax for an interface that would bypass DAGS. The CYRCA interface has been escalated within DHS as the business requirements CYRCA meets are being evaluated by DHS executive management. IV&V has opened a new issue #79 related to vendor development delays for the task management software.	
Recommendations		Progress
• C	omplete all MOAs and obtain approval.	In process
• 0	onfirm testing dates with interface partners in writing.	In process



#### **Configuration and Development**

#	Key Findings	Criticality Rating
	Issue – Lack of clear understanding of the DDI approach may reduce effectiveness of all SDLC Processes.	
16	DHS Product Owners have noted that some agreed-upon processes (e.g., the reinstatement of formal DHS prototype approvals) were bypassed at some point and now have been reinstated, which created confusion. However, overall understanding of the DDI process continues to improve as DHS leads become more adept with the SDLC and project processes.	M

Recommendations	Progress
<ul> <li>ASI make available their DDI approach documentation/materials for stakeholders to review and/or refresh their knowledge on demand.</li> </ul>	In process
<ul> <li>The Project monitor DHS product owner productivity, ability/willingness to provide effective feedback to the ASI for design and other important decisions and provide coaching as needed to assure their effectiveness in their role.</li> </ul>	In process



#### System Design

#	Key Findings	Criticality Rating
61	<b>Issue – Poorly executed JAD and "design sessions" could lead to inaccurate design and rework.</b> The ASI instituted a new process to align ASI BAs to similar Use Cases to build knowledge of common business processes, strengthening their facilitation during design meetings. DHS Lead Product Owners are also taking an active role to ensure the BES Design meets the requirements as noted in this month's positive finding.	м

Recommendations	
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 is adding two resources; a cloud architect and software development architect, as mitigation strategies for this risk. However, the foundational architecture of BES is complex which may limit DHS' ability to transition the ongoing maintenance and support of BES to another vendor or to DHS resources. It remains unclear whether the overall benefits of the numerous modern tools (e.g., better prevention, early detection of infrastructure problems, and quicker recovery from system failures) will outweigh the overall cost, complexity, and level of expertise required to maintain. Development of accurate architectural artifacts must continue to be a focus for this Project.	L

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
<ul> <li>The project team work to establish strong governance over the utilization and maintenance of various components to simplify their use and monitoring.</li> </ul>	Not Started



#### Testing

#	Key Findings	Criticality Rating
	Risk - The Americans With Disabilities Act (ADA) Section 508 compliance tool has not been installed for the Project, which may cause significant rework.	
67	The ASI has identified an accessibility compliance tool that will meet the needs of the Project and DHS has approved opening a firewall to facilitate a demonstration of that tool. The ASI completed a Proof of Concept for the tool and now needs to 1) receive DHS approval to use the tool, 2) purchase the tool, 3) configure the system to accommodate the tool, and 4) institute the tool into the delivery pipeline.	м

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



#### Security and Privacy

#	Key Findings	Criticality Rating
	Risk - Insufficient planning/execution of the BES Security Plan activities may lead to delays in gaining Federal Partner approval for the BES to begin the Pilot Phase.	
68	The ASI plans to add a security resource in June and may need to add additional resources. While the lack of a completed GCP change request is impacting security tasks, the loss of the DHS Security Analyst covered in finding #77 is a project issue. The ASI states that the security activities are six weeks behind schedule, and it will take a couple of months to mitigate this risk.	Н

Recommendations		Progress
•	The ASI continue to develop the BI-13 Security Plan in close collaboration with DHS.	In process
•	DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, such as security governance, risk, and control (GRC software). The process should define the level of detail needed to track progress (estimates, target dates, risks, issues, evidence) along with the Requirement Traceability Matrix, and plans of actions and milestones (POAM).	In process
•	ASI add a Security Architect to the Project ASAP to assist with the Security Plan activities.	In process
•	ASI have a security SME attend the weekly security planning meetings and workshops.	Not Started



#### Security and Privacy

#	Key Findings	Criticality Rating
77	<ul> <li>Issue – Insufficient DHS Security Resources on the BES Project may lead to delays in completing security tasks and the System Security Plan (SSP)</li> <li>IV&amp;V changed this finding from a risk to an issue due to the resignation of the DHS Security Analyst assigned to the BES Project. DHS has identified a temporary replacement resource and are taking action to acquire contract resources to support the BES Project.</li> </ul>	Н

Recommendations	Progress
<ul> <li>DHS contract for a qualified Security resource(s) as soon as possible to support BES while the Department security positions are filled.</li> </ul>	In process
DHS aggressively recruits and promotes the open DHS Security positions to obtain a pool of applicants.	In process
<ul> <li>DHS and ASI agree in writing to clear expectations of what security efforts the ASI should complete while the DHS fills positions.</li> </ul>	In process
Fill all available DHS Security positions as soon as possible.	Not Started

### IV&V Status



#### **IV&V Engagement Status**

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



#### **IV&V** Activities



- IV&V activities in the May reporting period:
  - Completed April Monthly Status Report
  - Ongoing Review the BES Project Artifacts and Deliverables
  - Ongoing Attend BES Project meetings, (see <u>Additional Inputs</u> pages for details)
  - Reviewed available ASI Original Contract and BES Optimization contract amendment documentation
- Planned IV&V activities for the June reporting period:
  - Ongoing Observe BES Design and Development sessions as scheduled
  - Ongoing Observe Bi-Weekly Project Status meetings
  - Ongoing Observe Weekly Architecture meetings
  - Ongoing Observe Weekly Security meetings
  - Ongoing 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-14 Release 0.6c Technical Design Document - SSP (Iteration 1)	5/31/2022	1.0
BI-14 Release 0.6c Technical Design Document - Administrative hearings (AH) (Iteration 1)	5/31/2022	1.0
BI-10 R0.7 CMM Verifications (Iteration 1)	5/27/2022	1.0
BI-20 Release 0.8 BES Test Scenarios, Cases, and Scripts (Iteration 1)	5/25/2022	1.0
BI-15 Release 0.6 Fully Configured and Developed System (Iteration 1)	5/26/2022	1.0
BI-14 Release 0.6d Technical Design Document - CMM (Iteration 1)	5/24/2022	1.0
BI-22 Release 0.6d System Test Report (Iteration 1)	5/23/2022	1.0
BI-25 Training and Knowledge Transfer Plan (Iteration 1)	5/20/2022	V1.0
BI-10 Release 0.7 FMM Overpayments (Iteration 1)	5/17/2022	V1.0
BI-22 Release 0.6d System Test Report – DRAFT	5/9/2022	V1.0
BI-25 Training and Knowledge Transfer Plan – DRAFT	5/6/2022	V1.0
BI-21 Release 0.5 Updated and Completed Detailed Functional and Technical RTM (Iteration 1)	5/6/2022	V1.0
BI-15 Release 0.6 Fully Configured and Developed System – DRAFT	5/5/2022	V0.2
BI-10 Release 0.6d CMM Interview (Iteration 2)	5/3/2022	V1.0
BI-14 Release 0.6d Technical Design Document - CF (Iteration 1)	5/3/2022	V1.0
BI-14 Release 0.6c Technical Design Document - Administrative hearings (AH) - Draft	5/2/2022	v0.2
BI-14 Release 0.6c Technical Design Document - SSP - Draft	5/2/2022	v0.7

### Additional Inputs – Artifacts



Deliverable 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)	5/24/2022 5/13/2022 4/30/2022	V0.26 V0.25 V0.24
BES Weekly Status Report	5/25/2022 5/18/2022 5/11/2022 5/4/2022	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

#### **Additional Inputs**



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

- 1. Weekly Platform Status Meeting 5/3/2022, 5/10/2022, 5/17/2022, 5/24/2022, 5/31/2022
- 2. Bi-Weekly Project Status Meeting 5/11/2022, 5/25/2022
- 3. Bi-Weekly BES PMO and IV&V Touch Base 5/12/2022, 5/26/2022
- 4. Weekly BES Dev Stand-up 5/4/2022, 5/11/2022, 5/18/2022, 5/25/2022
- 5. Weekly SSP Backlog Grooming Session 5/4/2022
- 6. Weekly CMM Backlog Grooming Session 5/10/2022, 5/18/2022, 5/26/2022, 5/31/2022
- 7. Weekly BES Project Schedule Review Meeting -
- 8. IV&V Team Meeting 5/2/2022, 5/5/2022, 5/9/2022, 5/12/2022, 5/16/2022, 5/19/2022, 5/23/2022, 5/26/2022, 5/31/2022
- 9. Weekly DHS-Unisys Security Touchpoint 5/24/2022, 5/31/2022
- 10. BES Testing Touch base 5/5/2022, 5/20/2022
- 11. HI DHS BES April Draft IV&V Report Review 5/11/022
- 12. Bi-Weekly DHS and IV&V Touch Base 5/3/2022, 5/18/2022, 5/31/2022
- 13. ASI/IV&V Mid-month Check-in 5/17/2022
- 14. ASI and IV&V Pre-Draft Report Review 5/3/2022
- 15. HI BES ASI and IV&V Touch Base Functional Team 5/17/2022
- 16. Implementation Planning 5/4/2022, 5/18/2022
- 17. CF09a Generate Case Notes 5/2/2022, 5/4/2022
- 18. R0.11 Correspondence Specs 5/2/2022, 5/4/2022
- 19. PE01a View Eligibility History 5/2/2022, 5/4/2022, 5/6/2022, 5/13/2022, 5/17/2022, 5/18/2022
- 20. CO01b, CO01c, CO01d and CO01e 5/3/2022
- 21. R0.11 Report Specs 5/3/2022, 5/5/2022, 5/9/2022, 5/11/2022, 5/13/2022, 5/19/2022, 5/23/2022
- 22. D-SNAP Process / Enhancement 5/3/2022

#### Additional Inputs – Continued



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

- 23. FM15 Manage Repayment Plans 5/3/2022, 5/5/2022, 5/6/2022, 5/9/2022, 5/11/2022, 5/12/2022, 5/17/2022, 5/19/2022, 5/23/2022
- 24. FM07a Receive FIS Data Returned Direct Deposit 5/5/2022, 5/9/2022, 5/11/2022, 5/13/2022, 5/17/2022, 5/19/2022, 5/20/2022
- 25. CF09b Generate Client Notes 5/6/2022
- 26. R0.12 Correspondence Specs 5/6/2022, 5/16/2022, 5/18/2022, 5/24/2022, 5/26/2022, 5/31/2022
- 27. CF08a Manage Client Notes 5/10/2022, 5/12/2022, 5/16/2022, 5/18/2022, 5/20/2022, 5/31/2022
- 28. CO54a BEER Data 5/10/2022
- 29. CO50 Manage SAVE Data Clean-up 5/16/2022, 5/24/2022
- 30. MDM Consent Management Design Sessions 5/17/2022, 5/24/2022, 5/31/2022
- 31. CF70 Manage Approvals 5/23/2022, 5/25/2022, 5/27/2022
- 32. FM50o Receive FIS Data Account Activity File 5/23/2022, 5/25/2022, 5/27/2022
- 33. FM03 Maintain Funding Source 5/27/2022
- 34. Weekly Functional PMO Meeting 5/2/2022, 5/9/2022, 5/16/2022, 5/23/2022, 5/31/2022
- 35. Data Conversion PMO meeting 5/2/2022, 5/9/2022, 5/16/2022, 5/23/2022
- 36. Weekly Interfaces PMO Meeting 5/2/2022, 5/9/2022, 5/16/2022, 5/23/2022
- 37. PMO Meeting Structure Testing 5/5/2022, 5/12/2022, 5/19/2022, 5/26/2022
- 38. PMO Meeting Structure BES Development 5/5/2022, 5/12/2022, 5/19/2022, 5/26/2022
- 39. PMO Meeting Structure AH/MDM/SSP Development 5/5/2022, 5/12/2022, 5/19/2022, 5/26/2022
- 40. [BI-14 Release 0.6c Walk-Through Technical Design Document SSP 5/2/2022
- 41. R0.6d Sprint Demo CMM Interview Prep 5/3/2022, 5/5/2022, 5/9/2022, 5/11/2022
- 42. [BES] BI-14 Release 0.6c Walk-Through Technical Design Document Administrative hearings (AH) 5/3/2022

#### Additional Inputs – Continued



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

- 43. [BES] Screen Prototype Review CMM CO01b, CO01c, CO01d and CO01e 5/4/2022
- 44. [BES] Screen Prototype Review CMM PE01a View Eligibility History 5/4/2022
- 45. Design Sprint Process Modifications 5/6/2022
- 46. R0.7 Entry SIT Go/ No Go 5/6/2022
- 47. [BES] BI-15 Release 0.6 Walk-Through Fully Configured and Developed System 5/9/2022
- 48. Sprint Demo 5/9/2022, 5/23/2022
- 49. CC requirements review 5/10/2022
- 50. R0.6d Sit Go/ No Go Exit 5/10/2022
- 51. BES] BI-25 Walk-Through Training and Knowledge Transfer Plan 5/10/2022
- 52. [BES] Screen Prototype Review CMM PE01a View Eligibility History 5/10/2022
- 53. BES Project Schedule Review 5/11/2022, 5/18/2022
- 54. [BES] R0.6 Final Release Demo Special Indicator & Interview 5/12/2022
- 55. BES] BI-22 Release 0.6d Walk-Through System Test Report 5/13/2022
- 56. [BES] Screen Prototype Review CMM PE01a View Eligibility History 5/19/2022
- 57. [BES] Screen Prototype Review FMM FM07a Receive FIS Data Returned Direct Deposit 5/24/2022
- 58. [BES] Screen Prototype Review FMM FM15 Manage Repayment Plans 5/24/2022
- 59. FMM Sprint Demo FM06 Manage Bank Information 5/25/2022
- 60. FMM Sprint Demo FM04a Authorize EBT Cards 5/26/2022
- 61. R0.7 SIT Go/No Go Exit 5/27/2022
# Appendices





## Appendix A – IV&V Criticality Ratings

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

### Appendix B – Findings Log



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

### Appendix C – Acronyms and Glossary



Acronym	Definition
APD	Advance Planning Document
ASI	Application System Integrator
BES	Benefits Eligibility Solution
CCWIS	Comprehensive Child Welfare Information System
CM	Configuration Management
СММІ	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 <sup>®</sup>	Project Management Body of Knowledge
PMI	Project Management Institute
РМО	Project/Program Management Office
PMP	Project Management Plan
QA	Quality Assurance
QM	Quality Management
RFP	Request for Proposal
ROM	Rough Order of Magnitude
RMP	Requirements Management Plan
RTM	Requirements Traceability Matrix
SEI	Software Engineering Institute
SLA	Service-Level Agreement
SME	Subject Matter Expert

### Appendix C – Acronyms and Glossary

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

## Appendix D – Background Information



#### **Systems Modernization Project**

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

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

#### Systems Modernization IV&V Project

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

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

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

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

## Appendix D – Background Information



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

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

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

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

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

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

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

### Ending Slide



### **Solutions that Matter**

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ID Finding	Identified						Analyst	Finding		
TB/         Report         Type           75         Extransfund word relays in development.         All Paragetimes Finding - the BS task management system (Current) interface have impacted the project coherade.         Issue	Interface Management	webload; 10 be completed by 4007/2022; CA reported that the webload; development work work and be done by 65/2022, and 65/2/3022, the A3 has not neeheed any status from CA. The webhoad is currently holding up the design of the CF4 – Manage CA. Data sure care for Release 0.8.	Current system to manage tasks. The IES system will create tasks and will see that the Garden task and the tasks and the supervisors will manage task from with the Current system. The webbook is being designed by CA that will provide task details for case that have been designed by CA that will provide task details for case that have been designed by CA that will provide task details for case that have been designed by CA that will provide task details for case that have been designed by CA that will provide task details for case that have been designed by CA that will provide task details for case that have been designed by CA that will provide task details for case that have been designed to CA that the case that the base to the task base been designed to the task of the task of the task details for case that the base been designed to the task of the base tasks of the task of the base tasks of the task of the base tasks of the task of the tasks of the task of the tasks of the task of t	outcomes. 2. Schodule recurring meetings with CIA to ensure consistent communication between the DHS the AS, NV, and CLA. B. Reconfirm testing dates with CIA and update the Current Interface Communication Plan.		Impact Probal	4 High		Status Update 06/02/2022: Issue created.	Cent Connents Veodor Connents
78 DHS Lead Product Owners demonstrate Brad Molina Finding - effective lixedership	5/31/2022 System Design	The primary DIS Froduct Denses show strong laderships skills during the skills design spirate and a pointwyk impact the uncomes of these meetings. In design spirate where the meeting facilitator was straggling, the PG including primary that the promovation is a strateging of the primary of the strateging of the strategi	without the strong contributions of the Frohatz Chemen. We observe popular approach for 2008 and other product chemes during prototype meetings and importantly, approach to move forward to development, have also happed mitigates the upen finding around Design synth. Existing the user of the strong strong strong strong strong strong strong forwards to Bits requestions. Confidence metaling the DOI process (Finding 16) is also mitigated occusionality by Lad POL, who in many cases have and hedre previous the openies with the design prior to process and lead the		Now	o	O NA	Open		
77 Isoufficient DKS Society Recourses on the Dutts Heading - BES Project may lead to delay in concepting lause security tasks and the System Security Plan (SSP).	4/29/2022 Security and Privacy	effectively handle, including: 1] lovel of effort needed to effectively manage the AGY security for St. 2] Det Swin Affects 2] and 3] daily security tasks supporting DES. In addition, the DeS Security Analyst nonnone other resignation from DEG reflective in MAy, loving on BES security resources from DES, Currently, all ASI and DHS security-related meetings for BES are canceled.	for the IES application are appropriate and adequately implemented. There are and or the IES Point Include control implementations that DHS is responsible for implementing that need DHS to provide content to the ALS responsible of the implementing that need DHS to provide content to the ALS responsible of the implementing that need DHS to provide content to the ALS responsible of the ALS and the ALS and the ALS and the ALS and the ALS responsible of the ALS and the ALS	support this which the Department security positions are filled - DHS agreewide yrecurst and promotes the group OES Security positions to obtain a pool of application - DHS and AS agree in writing to clear the observation of the security position as soon as possible. This positions Fill all available DHS Security positions as soon as possible.	Immediate	4			5/12/2022. "Wy changed this finding if onm a risk to an issue due to the regulation of the DE scient/hapking stagend to the IEE Fore(L: DE Scient). Each identified a temporary reglacement resource and are taking action to acquire contrast resources to support the IEE Project.	
76 Volumer D/S resource leving the Project Earl Burba Proding - may lead to check deby, lowered Risk mosile, and burnout.	3/3/2022 Project Management	volunteers except one. Resources are not in dedicated roles within the team	resources will be assigned to the test team. It is a risk to the Project that the remaining DHS resources will be overallocated, risking burnout, and creating	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 incentives for the DHS		4	2 Med	Open	5.01/2022: "Invigented this finding from a partitimatery concern to a nais the reporting particle." The drift head particle of multiple relates in the transport particle of the drift head particle of the string particle and the drift head particle of the string particle and the drift head particle of the string particle and the drift head particle of the string particle and the drift head particle of thead particle head particle of the drift head p	
74 The last of a LIB Project schedule based on Pipan Product accurate estimation dimnishes effective planning and resource management, which could reach the estimation could recrease, and a larg polyto.	11/J9/2021 Project Management	results that have not yielded improvement. Concerns with the structure,	constant schedule changes, resources not being available when needed, rushed activities, and general frustration which can lead to schedule delays,	<ul> <li>Using the valiships tools, review the current extension to complete acab.</li> <li>Statis compared tools acab low set valiships a necessary and provide the DRA/OA Project Managers with reports and data that accurately reflect the DRA/OA Project Managers with reports and data that accurately reflect to accurate the result of the set of the result of the data that accurately extension of the result of the result of the result of the result of the set of the result of the r</li></ul>	Immediate	4	4 High	Open	5/11/2022. A darkit particle tabulation was submitted for DrS approval. It in the recorrected additional Distributions and the recorrect and the distribution of the ind addite the end of the relation of the recorrect and the distribution of the ind addite. Distribution of the ind addite tabulation of the indiad of the ind	а 1 2 2 4
73 The planned BES (initiation tak Loomphe millos Friding - which could be filled to implement and Boa lead to scheduly/cost impacts.	10/28/2021 System Design	current 24 of instructure globa scholds a significant number of opphiscant compares that make use a significant number of number. The Project Team has yet to finitize components that will make the ES infrastructure and the additional containes to compliance, teat, and implement the planned complex environment remain unclear.	Infrastructure is not accurately accounted for and staffed by the ASI, the project could be met with unexpected costs and schedule delays. Delays in finalizing the components being implemented could exacerbate this risks and lead to further delays. Complex platforms often present system	infrastructure costs.   ASI develop a process to closely monitor cloud and other product changes (software updates/new releases), manage changes,		. 2	2 Low	Open	Design Starting articipants being able to competently perform them SU17227. The NA share have prevent and an advertishert and advances for advances of the starting of the starting articipant and the starting and for advances of the starting of the starting article and the starting materials and explorations of the starting article and the starting and the starting of the starting article and the starting article and indications are enough and accurate starting and attributes and the starting of the starting article and the starting article and and accurate the starting article and accurate starting and attributes and and accurate the starting article and accurate starting article and and accurate the starting article and accurate starting article and and accurate the starting article and accurate starting article and and accurate the starting article and accurate and the starting and accurate the starting article and accurate and the starting and accurate the starting article and accurate accurate and accurate and the starting and accurate the starting article and accurate accurate and the starting and accurate the starting article and accurate accurate and the starting and accurate the starting article and accurate accurate and the accurates and the accurate the starting article and accurate accurate accurates and accurates and and accurate the starting article and accurate accurate accurates and and accurate the starting article accurates and the starting article accurates and and accurate the starting article accurates accurates and accurates and and accurate the starting article accurate accurates and accurates and and accurate the starting article accurates and the starting article accurates and accurates and and accurate the starting article accurates and accurates and accurates and and accurate the starting accurates accurates and accurates and accurates and and accurates and accurates accurates accurates and accurates and accurates and and accurates accurates accurates accurat	

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ID	Finding	Identified				An	alyst Finding			
Title Reporter 71 The lack of the final agreement on the scope Joe Frasca	Type a Finding -	Date Category 8/23/2021 Project	Observation In April 2020, the DHS/ASI SOAP contract amendment codified the migratio	Significance	Recommendation Event Horizon The ASI should document the current environment M and O activities to ASAP	Impact Probability Priv	ority Status	Status Update 5/31/2022 - IVV has increased concerns about the slow progress and lack of	Client Comments	Vendor Comments
and costs of the Google Cloud Platform	a Finding - Issue	8/23/2021 Project Management	of some of the BES environments from an on-prem to cloud based solution	maintenance of cloud environments from the ESI to the ASI was included in	ensure all activities are known with a clear understanding of the "AS IS" and	4 4 Hig	in Open	detail regarding the GCP change request, as this has been in discussion since		9/9/2021 - RAP: Point
(GCP) Change Request (CR) may lead to			however, not all details were vetted at that point in time. In the July/August	t the ASI/DHS SDAP Contract Amendment finalized in April 2020. The	"TO BE" model for services beginning with the DDI, through			July/August 2020. The ASI has stated that their work on tasks within the		of clarification. The
unanticipated DHS costs, schedule delays, and/or the need to reduce scope.			2020 timeframe, DHS and the ASI agreed to have all BES environments	decision to migrate all BES environments to the cloud was made in the July/August 2020 timeframe. DHS' intent is for this CR to be cost-neutral.	Pilot/Implementation and M and O. The ASI clearly document the scope of work and cost for the GCP CR during DDI and M and O and provide to DHS			scope of the CR is 'at risk' and may need to stop, pending the CR approval. Based on the ASI Security Lead's report that the lack of an approved GCP		SOAP agreement did not establish that the
and/or the need to reduce scope.			being drafted by the ASI. It has been over 12 months since the project	While the BES application is being developed in the cloud, details regarding	for approval. COMPLETE - DHS and the ASI agree to a firm delivery date for			decision is delaying security work, this risk has materialized to an issue and		project would be
			decided to move all BES environments to the Cloud solution - more than	the specific services to be provided and by which vendor during the BES DD	for approval. COMPLETE - DHS and the ASI agree to a firm delivery date for when DHS will receive the GCP CR. 12/16/2021 Complete			decision is delaying security work, this risk has materialized to an issue and the criticality rating is escalated to High. 4/30/2022 - The ASI developed a		deployed to the Cloud.
			enough time to document, price and negotiate the scope of work. The BES					Rough Order of Magnitude (ROM) for the cost of the change request based on scope discussions with DHS. While progress is being made, the pace is		SOAP provided that
			is being developed in GCP and DHS/ASI consistently report they are working on the CR. however: it is not final.					on scope discussions with DHS. While progress is being made, the pace is slow. The ASI Security Lead reported the lack of an approved GCP decision is		development be done in the Cloud and
								delaying security work. 3/31/2022 - DHS and the ASI have met to further		specifically that
								define the scope of the CR and confirm the responsibilities of the ASI and		deployment would we
								ESI. DHS plans to have the Rough Order of Magnitude (ROM) done by April 15th, and then will engage the HI Attorney General. DHS has extended an		be to the on-premise
								opportunity for IVV to participate in the writing of the change request.		However, we did
								opportunity for IVV to participate in the writing of the change request. 2/28/2022 - IVV has requested a copy of the GCP change request from the		acknowledge that
								DHS Enterprise Technology Officer. When received, IVV will review the GCP CR and provide comments. 1/31/2022 - IVV has requested a copy of the		deployment may move to the Cloud. The final
								GCP change request from the DHS Enterprise Technology Officer. IVV waits		decision to move to
								to see if the ASI addressed our recommendations in the details of the CR.		GCP for production
								12/31/21 - No material update in the reporting period. IVV waits to see if the ASI addressed our recommendations in the details of the CR delivered to		was made in July 2020. The costs for
								DHS on 11/11/2021. 11/30/2021 - DHS has received information and		managing the UAT,
								pricing for the GCP CR from the ASI. The ASI and DHS are working to confirm		Production, and
								the scope of this change request. IVV waits to see if the ASI addressed our recommendations in the CB details 10/28/2021 - The ASI has not		Disaster Recovery environments were
								recommendations in the CR details. 10/28/2021 - The ASI has not submitted the GCP Change Request to DHS. IVV recommends that DHS and		environments were not included in the
								the ASI agree to a firm delivery date for the change request. 09/30/2021 -		SOAP agreement nor
70 Insufficient configuration management mfors	Concern	8/23/2021 Configuration an	d The BI-6 DDI Plan Deliverable, Section 5.2 establishes the framework for the	Configuration Management is a set of processes and procedures that	ASI adhere to plans for configuration management as documented in BI-6 ASAP	2 2 LOV	w Open	05/31/22 - No material update in the reporting period. 4/29/22 - IVV		
could lead to development confusion and reduce the effectiveness of defect resolution		Development	Configuration Management Plan, however, it remains unclear if sufficient progress has been toward establishing CM processes, selecting CM tools	ensures the BES is understood and works correctly. The BES solution includes tools that may provide a level of automation for Configuration	DDI Plan, Section 5.2 and clarify details and/or any changes with DHS. • ASI validate plans for configuration management with DHS and agree on a			expects this concern to be increasingly impactful as the Project approaches go-live. Implementation of all the components of configuration management		9/9/2021 - RAP: We look forward to
reased the effectiveness of detect resolution			(e.g., CMDB), and building out the CM infrastructure. The projects Google	Management that may reduce errors and should provide the project team	meaningful set of configuration items or settings they will track. • Identify			later in the Project could leave the project team scrambling to implement		receiving specific
			Cloud Platform (GCP) Change Request and Security Plan have yet to be	with accurate, dynamic and timely information on some of the configuratio	n the DHS POC for the Configuration Management Activities that would			during pre-go-live when resources are likely to be constrained. Delayed		inquiries from the
			finalized which may include additional requirements or decisions that could	items. However, it is critical that DHS/ASI agree to the full list of items that	provide oversight of configuration management activities and assure			completion may lead to configuration management that does not fully meet the needs of the Project or DHS expectations. 03/31/22 - No material		IV&V team on
			impact CM. The project currently relies on Github for tracking of some configurations	are included in the configuration plan along with the details regarding the management of the configuration items, reporting and audit features.	achieving DHS objectives for CM.			update for this reporting period. 2/28/22 - No material update for this		configuration management and
				o data data data data data data data dat	· · · · · · · · · · · · · · · · · · ·			reporting period. 1/31/22 - No material update for this reporting period.		having conversations.
								12/31/21 - No material update for this reporting period. 11/29/21 - The		We do acknowledge
								ASI stated their plans to utilize Service Now as their Configuration Management Database (CMDB). If utilized to its fullest extent. Service Now		that the plan likely needs to be updated
								can effectively track system configurations and provide system support		to reflect the
								personnel with an effective means to resolve system bugs. IVV will continue		processes in place on
								to monitor for the effective build out of the CMDB and further elaboration by the ASI of their configuration management plans. 10/29/21 -The ASI has		the project for configuration
								by the ASI of their configuration management plans. 10/29/21 - The ASI has made progress in their configuration management (CM) planning, such as		configuration management.
								identifying who will fill the Configuration Manager position but have noted		
								that full implementation of configuration tracking may be delayed as they		
								prioritize build out of more critical components of the BES infrastructure. The ASI will work with DHS to solidify CM tool decisions. The project is		
								currently considering replicating and improving on KOLEA's CM approach		
								which only tracks the most critical configuration items (e.g., firewall and		
								other security configurations) and creating a CM database (CMDB). It		
								remains unclear if the ASI will utilize ServiceNow (currently in use at DHS) for their CMDB. The ASI is currently using bitbucket for configuration		
								tracking purposes. 9/29/21 - The ASI has stated their intention to make		
								updates to the Configuration Management Plan. It is anticipated that the		
68 Insufficient planning/execution of the BES Jeremy Ril Security Plan activities may lead to delays in	iley Finding -	7/28/2021 Security and Privacy	Over the last several months, the BES project team has been working	The BES project must have a clear plan to define, implement, test, and	OPEN - The ASI continue to develop the BI13 Security Plan in close ASAP	4 5 Hig	th Open	04/27/2022 – As of April 22nd, IV&V has not observed any ASI Security SMEs attending security meetings. While Unisys states an open job requisition		9/9/2021 - RAP: The
gaining Federal Partner approval for the BES	NGK	Privacy	through the planning efforts to develop the BI-13 Security Plan while also managing through ASI Security Lead staffing changes. DHS and the ASI	validate all Security and Privacy Requirements/Controls prior to entering th Pilot phase. There are many standards that must be met, and the project	that will be used to document and track security control implementation.			exists for a Security Architect, one has yet to be added to the DHS BES team.		decision to move to
to begin the Pilot Phase.			agreed to modify the BI-13 Security Plan Deliverable Expectation Document	team plans to utilize the BES Security Control Implementation Workbook to document the status of each control. The Security Control Implementation	such as security governance, risk, and control (GRC software). The process			The BES Security Officer gave conditional approval of the system security boundary, based on the BES architecture not being finalized. All current		GCP for deployment
			(DED) last month and are currently revising it to align to the requirements and changes to the project since inception.	document the status of each control. The Security Control Implementation	should define the level of detail needed to track progress (estimates, target			boundary, based on the BES architecture not being finalized. All current		has driven the need
			and changes to the project since inception.	Workbook must be detailed and allow for ease of referencing to the Securit Policies, Standards, Controls, and implementation plan along with evidence	dates, risks, issues, evidence) along with the Requirement Traceability Matrix, and plans of actions and milestones (POAM) ASI add a Security			security-related meetings have been canceled between the ASI and DHS as the DHS security officer has resigned. Between the guidance that DHS has		for a complete rewrite of the security plan
				for each control.	Architect to the Project ASAP to assist with the Security Plan activities ASI			been providing on federal regulatory compliance (Pub 1075, MARS-E, FNS, NIST 800-53r5) and the lack of an ASI security architect and security SMEs to		per DHS. The ASI is in
					have a security SME attend the weekly security planning meetings and			NIST 800-53r5) and the lack of an ASI security architect and security SMEs to		the process of
					workshops. COMPLETE - DHS and the ASI agree and finalize the BI-13 DED. 1/4/22 Complete - ASI, per DHS guidance, should begin to pivot toward the			collaborate with DHS, security components are likely to stall until DHS and the ASI have adequate security staffing to continue with BES security-related		planning the effort to
					adoption of 800-53 Rev 5 since Rev 4 will be obsolete when the system goes			work. A separate finding has been developed by IVV related to DHS security		make these updates. The effort required to
					live, COMPLETE 3/31/2022 -DHS should determine the FNS requirements for			resources 03/31/2022 - DHS has decided to use NIST 800-53 revision 5		complete this work
					go live based on their meeting and provide ASI with proper guidance. FNS			moderate controls, and the ASI has been working on changing the control		will be included in either the GCP change
					requirements should be documented as part of BI-13 Security Plan COMPLETE 3/31/2022			mappings in Confluence to the revision 5 standard. This significant effort is mitigated in part by the efforts the ASI already completed on the Rev 5		request or a new
								controls. The effort to define the security boundary of BES and the		change request We
								components that make up the system has taken a considerable amount of		look forward to
								time and is incomplete. A security architect is essential to defining the security boundary of RFS; bowever, the security architect position remains.		additional discussions with IV&V and DHS
								unfilled. Over the past month, no security SMEs from the ASI have attended		with lock and pris.
								the weekly meetings with DHS. The result is questions raised within the		
								meeting not getting answered, and the response being deferred to the		
								following week. 2/28/2022 - DHS and the ASI continue to populate the in- scope controls. There is renewed discussion regarding the use of Rev 5		
								controls as required by the IRS, while Rev 4 controls are required by FNS.		
								DHS continues to determine the FNS requirements for go live and FNS'		
67 The Americans With Disabilities Act (ADA) Earl Burba	a 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 possil	ible 3 3 Me	d Open	timelines for security approval. 2/2/22 - The format of the security and 5/31/2022 - The ASI has identified an accessibility compliance tool that will		
Section 508 compliance tool has not been	Risk		successfully completed the ASI confirmed that there is currently no working	compliant to obtain State and Federal funds for the development of the BES	finding. The ADA tool meets contractual and project requirements.			meet the needs of the Project and DHS has approved opening a firewall to		9/9/21 - RAP: The ASI
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.			facilitate a demonstration of that tool. The ASI completed a Proof of Concept		has invited the IV&V to
significant rework.			performed. This risk has been discussed with the ASI over the past several months. But there have been evidence of results to date. The ASI did state	technology accessible to people with disabilities (e.g., color blindness,	communicates how the tool will be used to report compliance and non-			for the tool and now needs to 1) receive DHS approval to use the tool, 2) purchase the tool, 2) configure the system to accommodate the tool, and 4)		make contact with the
			that they are coding to some of the ADA requirements and are using a deck	available to others. Part of the system acceptance criteria for RFS is to mee	compliance and how non-compliance will be addressed/corrected The t ASI communicates how and when DHS/IVV will be provided the reports from			purchase the tool, 3) configure the system to accommodate the tool, and 4) institute the tool into the delivery pipeline. $4/26/2022$ - The ASI is		development team to review the results of
			top tool for ADA compliance as an interim solution. IVV has not received	"all applicable State and federal policies, laws, regulations, and Standards,	the ADA tool execution and how to interpret the results. Superseded			evaluating four ADA testing tools for consideration due to high pricing for		the desk-top tool to
			any data to demonstrate the desk-top tool results nor if it provides coverag	including without limitation the Electronic and Information Technology	8/30/2021 - The ASI should gain DHS' approval on the tool selected after the			the tool selected in March. This tool was demonstrated to the ASI and		gain insight. To date,
			for all ADA compliance items.	Accessibility Standards associated with Section 508 of the Rehabilitation Act, which was verified in the ASI proposed Technical Requirements	ASI validates it will perform as expected within the BES architecture, meeting all contractual and project requirements. The ASI create and			appeared to provide the required reporting features and the needed integration with the BES architecture. A second ADA tool under review has a		the IV&V has not contacted the
				Approach that states "The system complies with DHS branding standards a	communicate the plan for when the ADA compliance tool will be put into			proof of concept scheduled for the week of 5/1/2022. The ASI has stated		development lead to
				defined by DHS and adheres to W3C level 2 accessibility guidelines, sub-	action, how the tool will report compliance or non-compliance, how non-			that little impact is expected from the delay in performing ADA compliance		have further
				parts of Section 508 of the Americans with Disabilities Act (ADA), nondiscrimination safeguards in 45 CFR 85.". If the Hawaii guidelines	compliance will be corrected, and how and when DHS/IVV will be provided the reports from the ADA compliance tool and how to interpret those			testing and that a tool will be tested and selected shortly. 3/28/2022 - The ASI testing lead confirmed that an ADA tool has been selected for		discussions on this topic.
				(https//www.hawaii.edu/access/uh-guidelines-for-accessibility/), FNS	reports for the code from previous, current and future releases.			Asi testing lead confirmed that an AUA tool has been selected for consideration and a demonstration held. Next step is to execute a proof of		copill.
				Guidelines from the 901 Handbook, and contractual obligations to adhere t				concept within the BES application. To mitigate this risk, the ASI stated that		
				the Section 508 compliance guidelines (https://section508.gov/) there may				problems identified by a tool or through manual evaluation to Section 508		
				be a significant amount of rework to the solution.				criteria for web applications can be easily rectified with little impact to development and schedule. 2/25/2022 - The ASI team identified a new ADA		
								tool to conduct 508 compliance testing. While a demonstration is planned to		
								confirm the tool can work with the BES architecture, the ASI has stated that		
								if an appropriate ADA tool is not found, a manual ADA testing effort will be		
								conducted along with the ASI's use of an accessibility validation tool used during development. 1/31/2022 - No further demonstrations or		
								communication regarding the use of an ADA compliance tool occurred		
								during the reporting period. Note that this finding is mitigated by the ASI		
								using a desktop ADA compliance checking tool during development. 12/30/2021 - No further demonstrations or communication regarding the		
L								An average a "no recommendations or communication regarding the		

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0	Finding	Identified									
Title Reporter	Туре	Date Category	Observation	Significance	Recommendation	Event Horizon Impact Proba	bility Priority	Status	Status Update Cli	Client Comments	Vendor Comments
63 The lack of early planning and coordination Al Pangelinar with interface partners may result in	IN Finding - Risk	1/21/2021 Integration and Interface	The following planning and execution items have not yet been addressed and documented by the ASL - Connectivity is planned to utilize a presently	Interfaces is one of the areas where DDI projects often underestimate the time needed to effectively manage all the tasks and activities to successfull	OPEN 5. Complete all MOAs and obtain approval. 6. Confirm testing dates with interface pactners in writing. COMPLETE 1. Establish a communication	Q4 2021 4	1 Low	Open	05/31/2022 - There were no changes to the interface communication plans in this reporting period. There are 5 agreements outstanding (DLIR, DPS,		
schedule delays.		Management	undefined ETS API Gateway: however, there is no evidence that details have	implement data sharing. A clearly defined communication plan and	plan for each interface partner for the duration of the BES DDI activities.				HYCF, DAGS, and CYRCA), DPS, HYCF, and DLIR have all been drafted and are		7/20/21 RAP - The A
			been determined or documented in this regard There is little evidence of active and sufficient communication with interface partners for	schedule that includes the coordination, planning, and execution activities along with milestone dater may minimize the sizk of possible delays. In	10/29 COMPLETE 2. Identify and document all interface partners' contacts.				going through reviews with DHS and the interested parties. DAGS has not been drafted by DHS; DHS is in discussions with the Department of Tax for		team requests that the IV&V reassess the
									an interface that would bypass DAGS. The CYRCA interface has been		severity of this risk in
			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				escalated within DHS as the business requirements CYRCA meets are being		light of the following
			A mitigation plan has not been developed to address the unavailability of	are properly tested before deploying the system to production.	include the details associated with the planned connectivity and detailed technical designs of all interfaces. 01/04 COMPLETE				evaluated by DHS executive management. IVV has opened a new issue #79 related to vendor development delays for the task management software.		reasons: a) the ATC schedule extension
			interface partners during interface implementation after MOAs have been						04/28/2022 - There were no changes to the interface communication plans		has made the urgency
			approved, testing dates have been confirmed, and communications have been frequent.						in this reporting period. The DAGS, DLIR, DOH, and HYCF agreements are still outstanding. In addition, there is a new element to this risk regarding DLIR		for tackling these task less than it was before
			been neguen.						because the interface will not be able to offer additional data elements		that started lessening
									which DHS needs. 03/29/2022 - There were no changes to the interface communication plans in this reporting period. 02/25/2022 - There were no		the schedule risk, b) the increase from
									changes to the interface communication plans in this reporting period.		Medium to High in
									01/28/2022 - There were no changes to the interface communication plans		May was based on a
									in this reporting period. Based on discussions with the ASI, two recommendations are complete. 01/05/2022 - No changes to the interface		misunderstanding of the current state of
									communication plans in this reporting period. The ASI and DHS have been progressing although there are 3 MOAs awaiting approval and 3 unit-test		the MOA's and contac
									progressing although there are 3 MOAs awaiting approval and 3 unit-test dates awaiting confirmation. Due to the recent project schedule change and		metrics, c) substantial progress has made
									the 19-month addition to the Go-Live date, IVV has changed the priority to		against each of the In
									Low. 11/29/2021 - No changes to the interface communication plans in this		Progress
									reporting period. IVV has concerns regarding the 120-day certification process for the IRS interface, the DLIR modernization phase, and the		and it continues to
									modernization of the tax interface from a flat file to a direct web service		trend in the right
61 Poorly executed JAD and design sessions Brad	Finding -	11/30/2020 System Design	ASI-led Workflow JAD sessions have been held for CMM, with the following		- JAD and design sessions should be lead by experienced senior BAs, with	ASAP 2	5 Med	Open	with DOTAX. These new items may impact the project schedule, the existing 5/31/2022 - The ASI instituted a new process to align ASI BAs to similar Use		direction. In regards to
could lead to inaccurate design and rework.	Issue		concerns being observed, - No clear introduction to all participants on the	some concern regarding the CMM Workflow JAD sessions, specifically; (1)	goals, objectives and results communicated to all participants. (additional				Cases to build knowledge of common business processes, strengthening		
				Do the JAD participants understand how the Case will be managed through workflow? (2) What improvements will be made in the new BES to support	4/30/2022) - The facilitator should use their expertise to drive discussions				their facilitation during design meetings. DHS Lead Product Owners are also taking an active role to ensure the BES Design meets the requirements as		9/9/21 RAP - The IV&V does participate in
				the users and clients? Incomplete or unclear JAD sessions with insufficient	through leading questions The DHS and ASI product owners should				noted in this month's positive finding. 4/30/2022 - The ASI is working to		many facets of the
			Too much pause time when participants did not know the answer to a question; several occasions where complete silence on the call for 30	documentation could lead to a poor design, lacking the details needed to support business requirements; as well as missing opportunities to improve					mitigate the issues raised regarding inconsistent BA performance, including the migration of Senior BA to CMM team and providing additional		delsgn process including screen mock-
			seconds or more - Lack of thought leadership from the ASI on how	workflow and related system design.	process. (Closed 4/30/2022) - The ASI should back-track significant				training/onboarding for new BAs. Additionally, a System Analyst will		up reviews, backlog
			workflow could be designed to ease/improve process for client		differences in design direction to determine the root cause to identify these items as early in the SDLC as possible. COMPLETE - The Product Owners				participate in early days of design sprints to help with initial discussions of design. The IVV team and DHS look to observe improved facilitation in		grooming sessions, and Sprint demo's.
					should have more direct interaction with the development team, proactively				design sprints as these changes take effect. An additional recommendation		Product owner
					seeking collaboration. 10/5/21 Complete - The Functional Design Document process, to include the Design Sprint concept, should be clearly				has also been added, focusing on BA preparation for Design Sprints. 3/30/2022 - DHS and ASI continue to ramp up design sprints, with positive		discussions are meant to have limited
					defined and shared with all project team members. (Closed, 1/31/2022) -				movement in addressing this finding's open recommendations. IVV has		participation. The
					Invite IVV to all future design sessions and design sprints to allow IVV to observe and assess the effectiveness of the revised design processes.				observed some challenges, including Business Analyst confusion around Use Cases and needing to backtrack as new participants join design sprints mid-		team is concerned about the participation
					(Closed, 1/31/2022) - ASI and DHS should work together to vet the in-				flight. Additionally, the ASI facilitators have stated the JAR/JAD notes from		of the IV&V for two
					progress design with all SMEs for the area of focus. (being met by new				those sessions are not useful, which results in the project team revisiting		main reasons: 1) IV&V
					design sprint process, closed 2/28/2022) - BAs should come to Day one of Design Sprint fully prepared to facilitate discussion on topic of sprint, with				requirements definition efforts already completed. Prototypes of more complex Use Cases in coming weeks should provide a clear picture if designs		does not always stay silent in discussions on
					adequate knowledge about business process and approach for design based				are meeting DHS business needs. 2/28/2022 - The Project adopted the		design despite
					on IAD/IAR notes and other pertinent material.				recommendation to include DHS SMEs in the design process. DHS and IVV have observed improved DHS/ASI team collaboration and design session		assurances from the
									results. IVV notes that DHS may be taking on more responsibility than		their role, and 2) IV&V
									results. IVV notes that DHS may be taking on more responsibility than		
									expected by leading some of the design sessions. The next step is to		participtation typically
									expected by leading some of the design sessions. The next step is to observe/review the results of the sprint prototypes to determine if the number of key issues raised by the stakeholders are reduced. 1/31/2022 -		
									expected by leading some of the design sessions. The next step is to observe/review the results of the sprint prototypes to determine if the number of key issues raised by the stakeholders are reduced. 1/31/2022 - Based on progress by ASI, two of the recommendations are complete. The		participtation typically drives what are meant to be informal processes to more
49 Poor quality project deliverables may impact. Brad system design, testing artifacts and the	Finding -	4/16/2020 Project Management	deliverable were submitted for client review. There was an average of 85	project entities and has caused schedule delays due to the associated	WV recommends that a facilitated root cause analysis be performed by the ASI with DHS and NV in attendance. Quality issues are rarely generated by	Immediate 2	2 Low	Open	expected by leading some of the design sessions. The next step is to observe/review the results of the sprint prototypes to determine if the number of key uses raised by the stakeholders are reduced. J33/2022 - Based on prosress by ASI. two of the recommendations are complete. The 5/31/2022 - the reviewal DDI process, in particular the design sprints, is 06	06/30/2020 - New deliverables this month included BI-10 and BI-20. BI-10 was initially called back for quality issues, and the issues were corrected.	participtation typically drives what are meant to be informal processes to more
	Finding - Issue		deliverable were submitted for client review. There was an average of 85 comments submitted for each of these deliverables. The documents	project entities and has caused schedule delays due to the associated rework needed for remediation. If poor quality deliverables continue to be	ASI with DHS and IVV in attendance. Quality issues are rarely generated by a single entity in a project, so there could potentially be multiple causes or	Immediate 2	2 Low	Open	expected by leading scone of the design sessions. The next step is to observe/freview the results of the spring prototypes to determine if the number of key issues raised by the stakeholders are reduced. 1/31/2022 - Based on notrens: by ASI, two of the recommendations are consider. The 5/31/2022 - The revised DOI process, in particular the design sprints, is of bringing more focus and attention on design documents, which has a with positive effect on quality when researched by the lower number of comments. Division of the processing of the top of the processing of the processing of the top of the processing of the top of the processing of the proce	was initially called back for quality issues, and the issues were corrected.	participitation typically drives what are meant to be informal processes to more 7/30/21 RAP - The ASI team will review and
system design, testing artifacts and the	Finding - Issue		deliverable were submitted for client review. There was an average of 85 comments submitted for each of these deliverables. The documents exhibited erroneous information, a lack of a logical organizational flow, an insufficient level of detail, and a lack of understanding of the subject matter	project entities and has caused schedule delays due to the associated rework needed for remediation. If poor quality deliverables continue to be produced and submitted for review, this can continue to result in unoroductive use of time. unanticicated rework, missuided development	ASI with DHS and IVV in attendance. Quality issues are rarely generated by a single entity in a project, so there could potentially be multiple causes or root causes of this current condition. Once the root cause(s) are identified.	1	2 Low		expected by leading some of the design sessions. The next step is to observe/review the session of the sign introduced stars and the number of lay issues raised by the task-holders are reduced. 1/11/2022 - Based on anorests to A&L next of the recommendations are compared. 5/11/2022 - The reviewed DDI process, in particular the design sprints, is being more from and attention on design decomment, which have an end intervention of the stars and the stars and the stars and the stars are result. The stars are the stars are star- ing discrimination reviews. Thy will unitarize the meric is is build documented in the Calable Management Rev. when patients by the SAL #202022 - 100	was initially called back for quality issues, and the issues were corrected.	participitation typically drives what are meant to be informal processes to more 7/30/21 RAP - The ASI team will review and respond to this issue
system design, testing artifacts and the	Finding - Issue		deliverable were submitted for client review. There was an average of 85 comments submitted for each of these deliverables. The documents exhibited erroneous information, a lack of a logical organizational flow, an insufficient level of detail, and a lack of understanding of the subject matter	project entities and has caused schedule delays due to the associated rework needed for remediation. If poor quality deliverables continue to be produced and submitted for review, this can continue to result in unoroductive use of time. unanticicated rework, missuided development	ASI with DHS and IVV in attendance. Quality issues are rarely generated by y single entity in a project, so there could potentially be multiple causes or root causes of this current condition. Once the root cause(s) are identified, IVV recommends immediate action be employed to resolve quality concerns on in-process deliverables of to submission of subsequent deliverables)	<b>1</b>	2 Low		expected by leading some of the design sessions. The next step is to observe/review the session of the sign introduced stars and the number of lay issues raised by the task-holders are reduced. 1/11/2022 - Based on anorests to A&L next of the recommendations are compared. 5/11/2022 - The reviewed DDI process, in particular the design sprints, is being more from and attention on design decomment, which have an end intervention of the stars and the stars and the stars and the stars are result. The stars are the stars are star- ing discrimination reviews. Thy will unitarize the meric is is build documented in the Calable Management Rev. when patients by the SAL #202022 - 100	was initially called back for quality issues, and the issues were corrected.	participtation typically drives what are meant to be informal orocesses to more 7/30/21 RAP - The ASI team will review and respond to this issue again when a material update is made by the
system design, testing artifacts and the	Finding - Issue		deliverable were submitted for client review. There was an average of 85 comments submitted for each of these deliverables. The documents exhibited erroneous information, a lack of a logical organizational flow, an insufficient level of detail, and a lack of understanding of the subject matter from both a functional and technical perspective. DHS logged this issue in the Project Exus Log for corrective action by the ASL. The ASI acted by	project entities and has caused schedule delays due to the associated rework needed for remediation. If poor quality deliverables continue to be produced and submitted for review, this can continue to result in unoroductive use of time. unanticicated rework, missuided development	ASI with DHS and I/V in attendance. Quality issues are rarely generated by y- single entity in a project, so there could potentially be multiple causes or root causes of this current condition. Once the root cause(s) are identified, V/V recommends immediate action be employed to recolve quality concerns on in-process deliverables prior to submission of subsequent deliverables) (coder 1/30/2021 – X/S reviews its Cuality Management Plan to ensure that	<b>1</b>	2 Low		expected by leading some of the design sessions. The rest steps to be downer/viewed here results of the spring protectings to determine of the number of leavies some starsed by the tableholders are reduced. The selection accessible XM and other accessible some starsed accessible STAJ2022: The revised DDD process, in particular the design sprints, is only protose effect on quality when measure by the loave number of accessible protose effect on quality when measure by the loave number of accessible to chally Management of the Joint AdV 20022. We matterial update for this reporting protect accessible to the Quality Management from XJJ20222. We	was initially called back for quality issues, and the issues were corrected.	participtation typically drives what are meant to be informal orocesses to more 7/30/21 RAP - The ASI team will review and respond to this issue again when a material
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HI DHS Monthly IV Status Report

ID			Finding	Identified					Analys	t Finding		
Title 43 DHS PMO o	project team members have	Reporter Ryan	Type Finding -	Date Category 1/10/2020 Project	Observation As reported in various project meetings, several key DHS PMO, BES and ASI	Significance The key resources leaving the BFS Project provide knowledge and history of	Recommendation 2/28/2022 - DHS consider other ontions (Contractors, State employeer	Event Horizon Impact Pr	obability Priorit	Status	Status Update Client Comments 5/31/2022 DHS continues to recruit for PMO resources, but the three 02/08/2021 - Brian Donohoe does not agree with IVV's high-criticalit	Vendor Comment
transitioned	ed off the Project, which may	regian	Finding - Issue	1/10/2020 Project 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	borrowed from other agencies) to fill these positions if there is ongoing		o righ	Open	positions remain unfilled. However, some PMO responsibilities are being on this Finding (#43) and DHS rolled out the DHS Product Owner Role	and the ASI perspective
cause gaps i	s in knowledge transfer and				next few months or have already transitioned off the project. While there	of consistency and continuity to the extended project team. This experience	difficulty in finding permanent hires. 5/31/2021 - DHS continue to work				addressed through existing resources. For example, the contracted DHS PM Responsibilities to the DHS team on January 29, 2021. (Gary provided	
leadership o	on the Project.				are plans and actions being taken, a formal transition/succession plan has not been documented. In January, the ASI did announce and introduce an	planning efforts for BES Maintenance and Operations activities.	with the appropriate organizations to identify the funds necessary to fill these positions In progress The state should document a transition plan				has filled in leadership gaps and and has positively impacted the Project. Final DHS Product Owner Roles and Responsibilities document to IVV 4/28/2022 - No material updates for this reporting period. 3/31/2022 - 02/8/2021. 06/30/2020 - Mark Choi is becoming more involved in t	e of the BES project
					interim Project Manager, but a plan for a permanent replacement is not		for the project and PMO resources as identified in the RFP (reference RFP				DHS continues to recruit for these positions but received minimal interest to-project. Involved in Arch decisions and PM decisions around tool sets	have provided little
					currently known.		section 3.4.3 'DHS Staffing'). The plan should include the possible COVID-1 economic impact to the state budget, directly in relation to the project	9			date. 2/28/2022 - DHS posted the PMO positions but are having difficulty future vision, etc. Day to day PM working closely w/ Gary and Emeral identifying candidates. While online metrics show there is interest and the have no insight into other DHS staffing.	I. We impact on the over project. At this poi
							resources Closed The ASI should document a transition plan for each ke	/			positions are being viewed, as of this date, there has only been one	the knowledge
1							resource as required by the RFP (reference RFP section 3.5.1.2 'Benefits Elizibility Solution Project Staffing'.) - Closed				application. 1/28/2022 - No material updates in this reporting period. 12/30/2021 - No material updates in this reporting period. 11/26/2021 -	transfer gaps have been closed and th
1							Eligibility solution Project staffing .) - Closed				12/30/2021 - No material updates in this reporting period. 11/26/2021 - No material updates in this reporting period. 10/31/2021 - No material	leadership of the
1											updates in this reporting period, 9/20/3021 - The RESED Administrator	project remains st hands from DHS. V
1											spenning as the interim DHS BEST Project Manager esigned from DHS. To mitigate the knowledge and leadership risk, DHS backfilled the DHS BES	hands from DHS. V recommend that t
1											Project Manager with a contractor possessing extensive BES project	IV&V reassess the
1											experience. The Assistant BESSD Administrator will provide an active decision-making role in the project. IVV will monitor the impact of these	probability of impa and severity of imp
1											project management changes. The remaining DHS PMO positions continue	and lower the over
1											to be unfilled. 8/30/2021 - No material update in this reporting period. 7/28/2021 - No material update in this reporting period. 6/30/2021 - No	rating for this risk.3/3/2020 - Th
1											7/24/021 * No material update in this reporting period. 9(3)/221 * No material update in this reporting period. 5/31/2021 - No material update in this reporting period. 4/30/2021 - DHS reported the 'hiring freeze' has been	PM stated the Proj
1											this reporting period. 4/30/2021- DHS reported the 'hiring freeze' has been	Coordinator positi
1											lifted and are working to secure the budget for these positions. IVV will continue to monitor. 3/31/2021 - No material update to this finding in this	filled and they will bezin work on
											reporting period. 2/28/2021 -No material update to this finding in this	3/9/2020, transitio
1											reporting period. Note - Previously this finding was addressing DHS PMO and DHS BESSD staff, they were split during this reporting period to	activities from Dor will begin next we
	ty and/or a lack of communication	mfors	Finding -	5/28/2019 Project	Some platform and BES system architecture decisions have yet to be made			ASAP 2	2 Low	Open	5/31/22 - The ASIs addition of resources including backfilling of key 06/30/2020 - Combined application is still planned. App still not fina	zed by
	ng term architecture decisions act the project budget, schedule,		Issue	Management	and socialized to the project. For example, the ASI and DHS have stated that they have reached agreement that the project will move forward with	inclusive of all known future solution plans as possible. As an example, if	Deliverable with additional details as they become available and with any				positions may help to increase communication of architecture changes. The DHS. From Arch perspective, we are building in Liferay. Future Integr ASI stated they are evaluating the benefits of moving the BES portal (SSP) off of the portals is still to be determined, but is not more complex than	tion 4/23/21 rap - The and DHS continue
	act the project budget, schedule, sign, and planning decisions.				implementing two Siebel instances (one for KOLEA, one for BES), but this is	KOLEA and BES are to move to a single instance of Siebel in the future, planning for that integration should be incorporated into the project now. If	architectural changes are finalized Complete - DHS should finalize the Portal strategy and implementation details and communicate clearly				Oracle DBMS. 4/29/22 - The ASI OCM team is developing a communication originally planned for data sharing. If change is made to Adobe, this v	ould refine the final pla
					not currently reflected in the project change log or the project decision log. It remains unclear if the details of the rationale for this decision or the plan	such significant future changes are not planned for now, the project is likely	communicate out to stakeholders and project teams. Complete 3/31 - The				plan for communicating the 2-portal strategy, which may include a portal require a CR. overview welkthrough with the project team and videos prepared for DHS	for the two portal vision. We expect
				It remains unclear if the details of the rationale for this decision or the plan for integrating the two instances post go-live have been thoroughly vetted		Project should continue to vet possible architectural change impacts to the platform (e.g., ADA, Configuration Management tools), MandO, MQD, and				overview walkthrough with the project team and videos prepared for DHS stakeholders. 03/31/22 - The ASI has onboarded a new Lead Architect who	final decisions will	
					and/or documented. Further, there may be some uncertainty around		BES systems before finalizing architectural decisions DHS continue to				will be responsible for managing the system infrastructure which should	likely be made dur
					whether when/if all environments (including KOLEA and BES production) will be moved to the cloud.		request ASI perform due diligence in any recommendation for foundations architecture change decisions and continue to review with appropriate DH	4 5			improve clarity around governance, capabilities of the different infrastructure components and how they will be utilized. The strategy for 2	this reporting peri and communicates
					and an end of the state.		stakeholders to assure a common understanding of the implications of the	se			portal integration has been agreed to by DHS OIT, MQD, ASI, and ESI, and	the project. The AS
							decisions The Project should continue to ensure communication betwee development leads and architecture leads to assure optimal collaboration	n			communicated to the architects and project leadership. The Change Request has been distributed to DHS leadership for review and approval, the related	refers the IV&V to February update
							on possible architecture changes that could impact decisions in each area.				project decisions have been logged, and the high-level architecture is	regarding
							Maintain current communication processes to ensure regular communication between the architecture team and the rest of the project				available to the project team. 2/28/22 - IVV remains concerned that details	Recommendation
							communication between the architecture team and the rest of the project team to assess impacts of architecture decisions to the Project.				of the proposed change requests have not been fully communicated to all project stakeholders. If DHS is not able to fund these changes, stakeholders	From our perspect all necessary actio
											could be left with little time to respond if exclusions are discovered late into	are complete. If th
											the development phase. The ASI has stated they are close to onboarding a new lead architect: however, this resource will likely roll off the Project after	IV&V does not beli it is Complete we
											6 months. 1/31/22 - The ASI has yet to fully share and vet details of key	request supporting
											change requests with all relevant stakeholders. The ASI plans to review these details with PACKA (subcontractor) in the coming weeks. 12/31/21 -	detail.
											Details of the outstanding draft Change Requests (CRs) have yet to be fully	4/23/21 rap - The
											shared and vetted by all stakeholders and project impacts remain unclear.	and DHS continue
											Delays in providing these details could leave the project and stakeholders little time to react to significant architecture or other CR changes. 11/29/21	refine the final pla for the two portal
											The ASI reported progress in finalizing details of the Two-Portal and GCP	vision. We expect
	ear understanding of the DDI may reduce effectiveness of all	mfors	Finding - Issue	12/17/2018 Configuration and Development	Several DHS stakeholders have commented that the SI Design, Development, and Implementation (DDI) approach is unclear. While stakeholders can	Lack of stakeholder understanding and buy-in to the SI DDI approach and project activity objectives may reduce the effectiveness of JAR and JAD	OPEN • ASI make available their DDI approach documentation/materials for stakeholders to review and/or refresh their knowledge on demand. • The	w 1/31/19 3	3 Med	Open	5/31/22 - DHS Product Owners have noted that some agreed upon 1/7/19; Note. During the 01-02-18 [sic] status meeting, DHS did not of processes (e.g., the reinstatement of formal DHS prototype approvals) were the offer and made suggestions. To my understanding, Unisys offered	cline 9/9/21 RAP - The i to recent updates on
SDLC Process					observe SI activity and have participated in some SI activities, they do not	sessions as well as other BES project activities and decisions.	Project monitor DHS product owner productivity, ability/willingness to				bypassed at some point and now have been reinstated, which created present the orientation during each JAD session. It was suggested by	HS SDLC have been ad
1					understand how it all fits together and some activity objectives seem unclear. The SI conducted a DDI approach overview session during an initial		provide effective feedback to the ASI for design and other important decisions and provide coaching as needed to assure their effectiveness in				confusion. However, overall understanding of the DDI process continues to that the pre-JAD packet be placed in the SharePoint project site. For n participants in the JADs, a separate orientation before the JAD should	w to Confluence as promised. The test
1					JAR session, however not all stakeholders were present. IVV did not locate		their role. COMPLETE • ASI provide an additional DDI approach overview				processes. 4/29/22 - The Project continues to make efforts to mitigate the held for those new participants.	lead will continue
1					any DDI approach documentation or materials that could be referenced by stakeholders who may have missed to the overview session, by new		session for stakeholders who still may be unclear on elements of the methodology, especially new product owners Complete 8/27/2021.				impact of relying on junior BAs to lead design sessions including moving one	her role as testing and will also conti
1					stakenolders who may have missed to the overview session, by new members of the team, or by other interested parties.		methodology, especially new product owners Complete 8/27/2021.				of their more experienced BAs from the SSP team to the CMM team. DHS product owners continue to express concerns that they don't fully	to play an advisory
1											understand the DDI process and question how effective they can be in	role on the design
1											making important design decisions if they do not fully understand what's being asked, the technology, and/or the DDI process. Other more	the system as she done throughout t
1											experienced DHS participants appear to be stepping up efforts to take	project. The proce
1											control of some sessions when they sense that DHS SMS are not understanding the process. 03/31/22 - The Project appears to be making	changes did not change her role.
											strides in implementing and refining their new SDLC process, though SMEs	7/20/21 RAP - The
											have indicated the process requires a significant amount of their time and participation in the Project can take away from their operational duties. DHS	provides updates of the SDLC processes
											provided feedback to IVV that the lack of senior Business Analysts (BAs) is	published Confluer
											causing confusion in the design process and ASI lack of expertise to design the user interface may result in a cumbersome design. IVV remains	They continue to evolve in response
											concerned that some design sessions are being led by junior resources	lessons learned.
											without the support of more experienced BAs. 2/28/22 - IVV remains	project schedule
											concerned that the new SDLC process may become resource intensive for DHS SMEs, who may struggle with implementation, which could hinder	impacts, and retrospective feed
											productivity and lead to schedule delays. 1/31/22 - The ASI and DHS are	from the developm
											revising their current SDLC/Design process to improve, among other things, overall effectiveness and assure important details are vetted by appropriate	teams. We will leverage the mont
		Ryan	Finding -	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 4	4 High	Open	overall effectiveness and assure important details are vetted by appropriate 5/31/2022 - The Project continues to refine SDLC processes to improve	leverage the mont 7/20/21 RAP - The
caused sche-	hedule delays.		Issue	Management	specifics), several due dates for project deliverables have been missed. As of the date of this report, these deliverables include the Project Management Plan (PMP), which is the formal document that is used to manage the	deliverables may cause significant disruption to schedules or delays.	monitoring and analyzing deliverables that may have impact to the critical path_COMPLETE_5/31/2021 - When the revised schedule is additional the				project schedule estimates. Although the schedule has not been approved, the ASI continues to monitor project activities that may impact the critical	will continue to re the published sche
					Plan (PMP), which is the formal document that is used to manage the	the Project can suffer unplanned consequences in scope, schedule, cost, and	d project team should restart the weekly practice of reporting actions being				path and conducts meetings to address late tasks. The ASI has reported	based on feedback
					execution of the project. In some instances, this risk may be compounded by a backlog of Deliverable Expectation Documents (DED) requiring approval	quality parameters. Without a schedule that provides the required level of	taken for late tasks and develop mitigation plans for those tasks that may	be			delays in development that may impact the project schedule. 4/28/2022 - The Project continues to conduct design sprints with varying degrees of	from DHS and the IV&V while we wo
					a backlog of Deliverable Expectation Documents (DED) requiring approval and acceptance from the State.	occasi comanage une work, une project is at risk to be successful.	agree to a revised schedule against which project deliverables can be				success. Some sprints require additional time due to 1) not having the right	through the final
							managed. 9/30/2020 Recommendation - IVV recommends the project tea	m			resources involved early in the process, 2) business analyst lack of	change request for
							evaluate the estimating process to determine if changes should be made t reduce the number of late tasks and-or conduct a root cause analysis to	, ,			preparation and/or experience conducting the sprints, or 3) the ability of the DHS POs and SMEs to effectively execute their roles. However, the Project	ATC which is neari completion. Regar
1							determine and address the root cause(s) Closed 8/31/2020				conducts retrospectives and is continuously taking steps to the improve the	the recommendati
1							Recommendations; - Prior to acceptance of the new baseline, finalize the needed updates to the project schedule to address the outstanding				process. Additionally, the ASI monitors deliverables that may impact the critical path. 3/31/2022 - The ASI reported most design sprints were	Recommendation Based on progress
						items/issues identified by DHS, the ASI, and IVV to include the Release 0.1				completing 4 days earlier than planned. IVV observed instances where	made to date, the	
							lessons learned Closed - Establish the process for DHS and the ASI to mutually agree to the revised project schedule baseline Complete -				design sprints were not completed as planned, functionality shifting to future releases or paused due to resource challenges. While a certain	is hopeful, that we
												agree in principle of
							Establish the process for on-going schedule management and weekly				amount of delay would be expected for some sprints due to the new	the ATC change
							Establish the process for on-going schedule management and weekly updates, utilizing the Schedule Management sub-plan of the Project				amount of delay would be expected for some sprints due to the new process, it remains unclear if/where delays will occur in future sprints and	request in July and
							Establish the process for on-going schedule management and weekly updates, utilizing the Schedule Management sub-plan of the Project Management Plan (BI-04) Complete 5/31/2020 - Finalize the updates to				amount of delay would be expected for some sprints due to the new process, it remains unclear if/where delays will occur in future sprints and what the effect those will have on the critical path. The project team	request in July and have a final schedu
							Establish the process for on-going schedule management and weekly updates, utilizing the Schedule Management sub-plan of the Project Management Plan (BI-04) Complete 5/31/2020 - Finalize the updates to the project schedule to address the outstanding items/issues identified by DKS and W/ Closed. 5/31/2020 - Establish the process for OHS and the.	SI I			amount of deay would be expected for some sprits due to the new process, it remains uncertain flywhere allows provide and an anticipated proport of Resears 7 Development was underestimated and a santicipated to deay Resears 7 Development mitigation Testing: In and the santicipated to the same state of the same state of the same state of the same state of the same state of the same state of the same state of the same state of the same state of the same state of the same state of the same state of the same state of the same state of the same state of the same state of the same state	request in July and have a final schedu published by the e of the month.
							Establish the process for on-going schedule management and weekly updates, utilizing the Schedule Management sub-plan of the Project Management Plan (Bi-04) Complete 5/31/2020 Finalte the updates to the project schedule to address the outstanding temp/susse identified by DHS and VV Closed. 5/31/2020 Establish the process for DHS and the umutually agree to the revised prodect schedule baseline Closed	SI			amount of deby would be expected for some sprints date to the new process, it remains uncellar if where deby and location if hubre sports and what the effect those will have on the critical path. The project team proprint defeases 7 System Integration Testing, it is not yet known how this deby releases 7 System Integration Testing, it is not yet known how this	request in July and have a final schedu published by the e of the month. Recommendation
							Etablish the process for on going schedule management and weekly updates, utilizing the Schedule Management sub-plan of the Project Management Plan (Bi-04) Complete 5/31/2020 - Enailste the updates to the project schedule to address the outstanding item/isuesistentifield by DHS and IV Closed. 5/31/2020 - Establish the process for DHS and they nutually agree to the revised project schedule baseline Closed 3/31/2020 - Add all tasks that have been performed or planned to be performed in the interim schedule. Closed 5/30/2020 - GHE-05 (SHE-05) (SHE-0	0			amount of delay would be expected for some particle data to the new process, it remains uncertain of yokens delay any accion in flame toported regorder defective 7 Development variante and anticipated to delay fielesses 7 Development varia su underestimuted and in anticipated to delay fielesses 7 Development variante and the subscription of this delay may impact the current proposed gaine lastes. The Project construss delay may impact the current proposed gaine delates. The Project construss that project delay 2012/2012 the subscription of the subscription of the delay may impact the current proposed gaine delates. The Project construss that project delays 2012/2012 the subscription of the support construss that provide delays 2012/2012 the subscription of the support delays that the support toport of the support of the support of the support delays the support delays that the support toport of the support of the support of the support delays that the support delays the support toport of the support of the support delays that the support delays the support toport of the support of the support of the support delays the support of the support toport of the support of the support of the support of the support delays the support of the support toport of the support of the support of the support of the support delays the support of the sup	request in July and have a final schedu published by the e of the month. Recommendation The team has reinstituted every
							Etablish the process for on-going schedule management and weekly updates, uilling the Schedule Management wolf and the Project Management Plus (Bi-04) - Complete 5/31/2020 - Finales the updates to be a project schedule to address the unstraining termin/susce schedule for Dist and MV, - Counce 5/31/2020 - Schedule the prozent of the Sam Management of the Sam	0 at			amount of deby would be expected for some sprints date to the new process, it remains unceller affyheter deby and location. In future sprints and what the effect those will have on the critical path. The project trans reground Merican <sup>2</sup> Development was underwaterable and is anticipated to approximate the critical path. The project continues deby may impact the critical path. The project continues to meet regularly to a critical wave for approximation to a control path. The project debys, 2/2/2/2022. The updated target for Posts to approve the project cheldes, and what projects and uncellar and maintain the project cheldes.	request in July and have a final schedu published by the e of the month. Recommendation The team has reinstituted every other week schedu
							Etablish the process for on going schedule management and weekly updates, utilizing the Schedule Management sub-plan of the Project Management Plan (Bi-04) Complete 5/31/2020 - Enailste the updates to the project schedule to address the outstanding item/isuesistentifield by DHS and IV Closed. 5/31/2020 - Establish the process for DHS and they nutually agree to the revised project schedule baseline Closed 3/31/2020 - Add all tasks that have been performed or planned to be performed in the interim schedule. Closed 5/30/2020 - GHE-05 (SHE-05) (SHE-0	0 at i			amount of delay would be expected for some particle data to the new process, it remains uncertain of yokens delay any accion in flame toported regorder defective 7 Development variante and anticipated to delay fielesses 7 Development varia su underestimuted and in anticipated to delay fielesses 7 Development variante and the subscription of this delay may impact the current proposed gaine lastes. The Project construss delay may impact the current proposed gaine delates. The Project construss that project delay 2012/2012 the subscription of the subscription of the delay may impact the current proposed gaine delates. The Project construss that project delays 2012/2012 the subscription of the support construss that provide delays 2012/2012 the subscription of the support delays that the support toport of the support of the support of the support delays the support delays that the support toport of the support of the support of the support delays that the support delays the support toport of the support of the support delays that the support delays the support toport of the support of the support of the support delays the support of the support toport of the support of the support of the support of the support delays the support of the support toport of the support of the support of the support of the support delays the support of the sup	request in July and have a final schedu published by the e of the month. Recommendation The team has reinstituted every