DAVID Y. IGE GOVERNOR



DOUGLAS MURDOCK CHIEF INFORMATION OFFICER

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES P.O. BOX 119, HONOLULU, HAWAI'I 96810-0119

Ph: (808) 586-6000 | Fax: (808) 586-1922 ETS.HAWAII.GOV

December 16, 2021

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

Dear 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 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 Hawaii 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 Hawaiʻi

Attachment (2)



### Hawaii Department of Human Services Systems Modernization Project

Final IV&V Status Report for Reporting Period: November 1 - 30, 2021

Submitted: December 13, 2021



**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**



In this reporting period the BES project team appears to be at a crossroads, where they are facing several challenges. Some of those challenges include:

- Discrepancies between the ASI's design artifacts and DHS' requirements, which have not been mitigated by modifications to the SDLC process.
- Delays in release 6 development, which includes the CMM Interview, SSP, FMM Overpayments, and Interfaces.
- Inefficient project management, evidenced by a continued inability to accurately plan and execute tasks, and the absence of an approved project schedule.

The BES Project Schedule was opened as a new risk finding by IV&V. While the lack of an approved schedule has been reported for months in conjunction with finding #2 concerning late deliverables, the inability to accurately plan and execute tasks is now tracked as a separate risk.

IV&V notes four of the six categories have a high criticality rating. The BES Project leaders and staff are developing or executing mitigation plans for these risks/issues meaning they are diverted from planned to unplanned activities. Unless new resources are added, this increases the risk the project team cannot meet the planned BES Pilot and Go-Live dates.

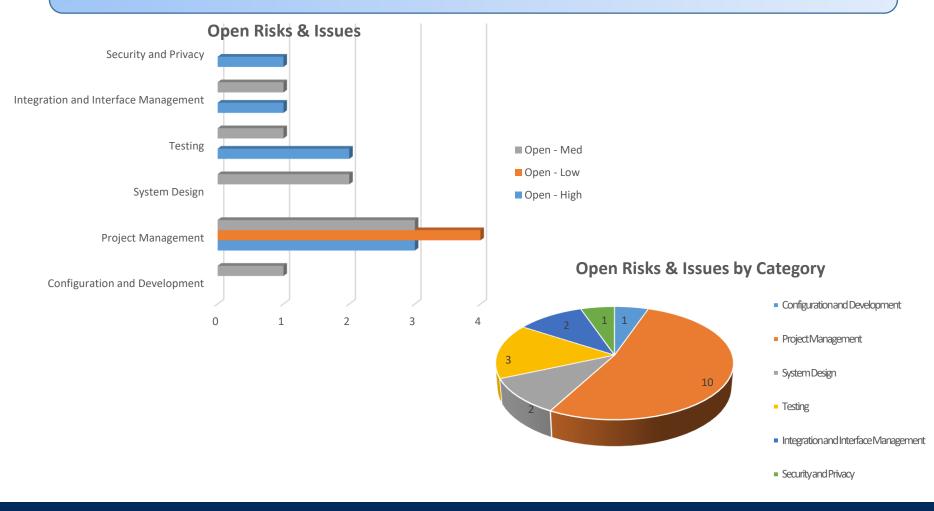
Sep	Oct	Nov	Category	IV&V Observations
н	н	н	Project Management	The criticality rating for this category remains high due to the: 1) absence of an approved and reasonable schedule 2) lack of velocity reporting on FCM (CMM and FMM modules) development that drives project planning, and 3) lack of state funding to fill vacant PMO positions. This category has been at a high criticality rating since July 2020 (17 months).
M	М	M	System	IV&V observed DHS product owners (PO) raising design concerns late in the process. In some cases, the DHS PO assigned has changed over time, and design artifacts do not capture enough detail including prior decisions.
			Design	IV&V remains concerned about the complex design of the BES Infrastructure and possible impacts. The ASI stated that the proposed BES Infrastructure is designed to automate tasks and improve efficiency.

### **Executive Summary**

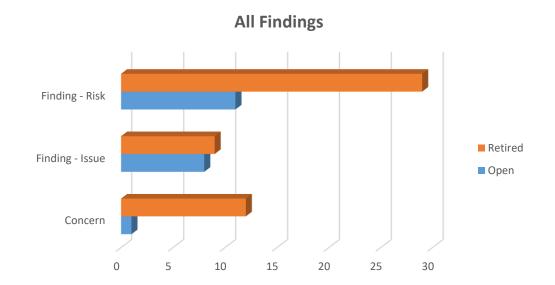


Sep	Oct	Nov	Category	IV&V Observations
М	М	М	Configuration and Development	IV&V is concerned that DHS POs are being asked to finalize designs before they are fully vetted by DHS. The DDI process does not appear to be consistently followed, as design issues are showing up after development.
Н	H	Н	Integration and Interface Management	IV&V is concerned with additional scope regarding the 120-day certification process for the IRS interface, the DLIR modernization phase, and the modernization of the tax interface. These new items may impact the BES project schedule, scope, and previously completed work.
M	M	Н	Testing	<ul> <li>This category has elevated to high based upon the Regression testing finding.</li> <li>IV&amp;V requested the ASI further detail the root cause of defects found during testing and the remediation plans to address.</li> <li>The ASI demonstrated the ADA compliance tool against the vendor's website, but it has not been verified to work for the BES application and environment.</li> </ul>
н	E	н	Security and Privacy	DHS and the ASI continue discussions on the BI-13 BES Security Plan DED to ensure it will meet all State and Federal Partner requirements.

As of the November 2021 reporting period, PCG is tracking 19 open findings (11 risks and 8 issues) and has retired a total of 50 findings. Of the 19 open findings, 10 are related to Project Management, 2 in Integration and Interface Management, 3 in Testing, 2 in System Design, 1 in Configuration and Development, and 1 in Security and Privacy.



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





#### Findings Retired During the Reporting Period

#	Finding	Category
54	Risk – Missing and incomplete artifacts required as entry and exit criteria for each testing stage could lead to schedule slippage or delivery of a solution that does not meet business needs or requirements.IV&V observed multiple go/no go meeting for testing. Artifacts required as entry and exit criteria have been provided by the ASI and approved by DHS for transition to the next testing stage. Therefore IV&V retired this finding.	Project Management



# Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
	Insufficient configuration management may result in preventable defects, schedule delays, budget issues and resource adjustments to compensate for quality and schedule issues.	
70	The ASI stated their plans to utilize Service Now as their Configuration Management Database (CMDB). If utilized to its fullest extent, Service Now can effectively track system configurations and provide system support personnel with an effective means to resolve system bugs. IV&V will continue to monitor for the effective build out of the CMDB and further elaboration by the ASI of their configuration management plans.	Configuration and Development



#### Findings Opened During the Reporting Period

#	Finding	Category
	Risk – The ASI demonstrates the inability to accurately plan and execute tasks in the BES project schedule, which could result in late deliverables, cost increases, and a late go-live.	
	<b>Observation:</b> DHS and the ASI have tried multiple times to rework the schedule with results that have not yielded improvement. Concerns with the structure, estimating practices, and ability to manage to the schedule persist. The use of multiple tools to track resources obfuscate resource management.	
	<b>Significance:</b> If estimates for project schedule activities are not accurate, this can lead to constant schedule changes, resources not being available when needed, rushed activities, and general frustration which can lead to schedule delays, low quality output, scope changes, and budget issues.	
	Recommendations:	Droject
74	- Using the available tools, review the current estimates to complete each activity compared to past actual hours.	Project Management
	<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>	
	- 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.	
	<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>	

#	Key Findings	Criticality Rating
2	Issue – Late Delivery of project deliverables may cause schedule delays. Some project deliverables were late this month. For example, CF Special Indicator and CMM Interview did not go into Release 6 System Integration Testing on schedule. As project deliverables slip, it may be an indication that the schedule itself is unreasonable versus the execution of project tasks. The project team is currently re-evaluating the schedule. IV&V has opened a new risk #74 to monitor planning and scheduling activities.	Н

Recommendations		Progress
•	DHS and the ASI agree and publish the revised schedule based on the KOLEA ATC impact, CMM development delays and any other changes to address the potential SDLC Process adjustments.	In process
•	Despite not yet having a revised baseline schedule, continue monitoring and analyzing deliverables that may have impact to the critical path.	In process



#	Key Findings	Criticality Rating
	Issue – Uncertainty and/or a lack of communication around long-term architecture decisions could impact the project budget, schedule, system design, and planning decisions.	
29	The ASI reported progress in finalizing details of the Two-Portal and GCP change requests (CRs) and vetted several key details with DHS. They are also working to finalize some of the architecture components. However, it remains unclear if these changes are fully communicated and vetted by the larger project team.	L

Recommendations	Progress
• DHS should finalize the Portal strategy and communicate the strategy with the stakeholders and project teams.	In process
<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. No material updates in this reporting period.	Н

Recommendations	Progress
• DHS continue to work with the appropriate organizations to identify the funds necessary to fill these positions.	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 has transitioned their team from working remotely to primarily working in their Honolulu office as of October 2021. It remains unclear whether the new COVID variant (Omicron) will disrupt project activities.	L

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
49	Issue – Poor quality project deliverables may impact system design, testing artifacts and the project schedule. The results of the system test for release 0.6 showed a significant reduction in defects compared to prior releases, which could reflect improvement in the quality of deliverables. IV&V will review the root cause analysis when provide by the ASI.	L

Recommendations	
<ul> <li>ASI review the Quality Management Plan to ensure that the project is working within the Quality guideling particular, the ASI should evaluate and consider if it is in alignment with Section 3.1.2 Measure Project 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 component activity; 4) recording observed activity values; and 5) combining the recorded attribute value 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>	Quality, and or each In process es into a
ASI verifies that the information in design and testing artifacts is kept in sync and consistent.	In process
<ul> <li>ASI perform a root cause analysis with DHS and IV&amp;V in attendance to determine the source of the des defects.</li> </ul>	sign Not started

#	Key Findings	Criticality Rating
62	Issue – Inability to measure development team velocity may impact the projects' ability to forecast the delivery date of the remaining features. IV&V met with the ASI on November 3rd to discuss the velocity charts. There are six development teams (3 for FCM and 3 for SSP). IV&V found that the velocity charts contain aggregated data that does not represent each team's velocity. At this time, IV&V cannot determine if each development team is tracking its velocity.	Н

Recommendations	
Calculate the average velocity from past iterations to be used as a historical reference.	In process
Provide velocity charts with committed and completed story points for projects documented in Jira.	In process
Optimize work based on estimations.	In process

#	Key Findings	Criticality Rating
	Risk – Insufficient project availability of DHS BESSD staff with expansive business knowledge could lead to a BES solution design that falls short of the DHS business needs.	
65	DHS BESSD staff with extensive business knowledge have been available for the project, especially in the last month now that a permanent BESSD PM has been hired and involved. There is significant improvement with the availability of DHS product owners, SMEs, and managers. As a result, IV&V is lowering the criticality rating to low.	L

Recommendations	
DHS continue to identify BESSD SME's to support the project as the project progresses.	In process
Identify and on-board a replacement BES Project Manager.	Complete
<ul> <li>Continue coaching the new BES Product Owners to ensure the new system takes advantage of new technologies and aligns to the planned business processes.</li> </ul>	In process
DHS continue planning, transitioning, and adapting to staff changes.	In process



#	Key Findings	Criticality Rating
	Risk – 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	DHS has received information and pricing for the GCP CR from the ASI. The ASI and DHS are working to confirm the scope of this change request. IV&V waits to see if the ASI addressed our recommendations in the CR details.	M

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.	Not started
•	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.	Not started
•	DHS and the ASI agree to a firm delivery date for when DHS will receive the GCP CR.	In process

#	Key Findings	Criticality Rating
	Risk – The inability to measure and report the overall Data Conversion work effort and progress may lead to schedule slippage.	
72	The ASI is re-estimating the remaining Data Conversion work and is developing a Data Conversion Dashboard, intended to provide a comprehensive view of work completed and work remaining. Additionally, the ASI added a data modeler to the Data Conversion team.	M

Recommendations	
The ASI should develop reports with metrics that accurately measure the Data Conversion progress.	In process
<ul> <li>The Data Conversion team should evaluate the Just In Time (JIT) approach to determine if there are risks to the project that should be monitored/managed.</li> </ul>	In process
<ul> <li>The DHS Data Governance committee continue to clarify the usage of MDM so the BES conversion team aligns to the planned governance structure.</li> </ul>	In process
The Data Conversion team consider using use cases and story points to measure progress.	Not started



#### Integration and Interface Management

#	Key Findings	Criticality Rating
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 stated that communications between their development teams have improved, and as result, moved	M
	some integration components into earlier releases. However, most of the integrations are scheduled for implementation shortly before go-live based on the project schedule.	

Recommendations	
<ul> <li>Prioritize the build of integration points within each module and the creation of scripts (API calls) required for integration.</li> </ul>	In process
<ul> <li>If the ASI needs all the remaining releases to demonstrate an end-to-end solution of the identified business processes across all modules, IV&amp;V recommends planning and communicating the mitigation strategy for handling risks associated with this approach.</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. No changes to the interface communication plans in this reporting period. IV&V has concerns regarding the 120-day certification process for the IRS interface, the DLIR modernization phase, and the modernization of the tax interface from a flat file to a direct web service with DOTAX. These new items may impact the project schedule, the existing process for the DHS Financial Management Office, and the functional designs for the FMM module.	Н

Recommendations	
Identify and document all interface partners' contacts.	In process
<ul> <li>Define a detailed schedule for each interface to include milestone dates, coordination, and execution and share with the interface partners.</li> </ul>	In process
<ul> <li>Determine which deliverable will include the details associated with the planned connectivity and detailed technical designs of all interfaces.</li> </ul>	In process
Complete all MOAs and obtain approval.	In process
Confirm testing dates with interface partners in writing.	In process
Distribute preparation procedures for interface implementation to the interface partners.	In process
• Develop a mitigation plan to address the unavailability of Interface Partners during interface implementation.	Not started



#### **Configuration and Development**

#	Key Findings	Criticality Rating
	Issue – Lack of clear understanding of the DDI approach may reduce effectiveness of all SDLC Processes.	
16	The ASI reported that their new testing approach has reduced DHS testers level of effort to support testing and streamlined the overall effort. DHS reported that some of their product owners (POs) may have been put in a position (by the ASI) to provide final approval of designs without a proper understanding of what should be considered and vetted by other DHS stakeholders/SMEs. This has led to testing DHS SMEs to request changes to the finalized designs in the form of enhancements. Further, it remains unclear to DHS SMEs whether enhancement requests will incur additional costs to DHS which could later lead to cost overruns or scope reduction.	M

Recommendations		Progress
	ASI make available their DDI approach documentation/materials for stakeholders to review and/or refresh their knowledge on demand.	In process
	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.	In process



#### System Design

	#	Key Findings	Criticality Rating
e	61	Issue – Poorly executed JAD and "design sessions" could lead to inaccurate design and rework. IV&V continues to ramp up participation in design sprint meetings. IV&V observed that new/replacement DHS POs who were not involved earlier sometimes request a revisit of prior decisions, and in some cases, the replacement PO will have a different opinion on how to design the solution. IV&V will continue to observe these meetings and capture issues that could negatively impact the design of solution.	М

Recommendations	Progress
<ul> <li>JAD and design sessions should be led by experienced senior BAs, with goals, objectives and results communicated to all participants.</li> </ul>	In process
The facilitator should use their expertise to drive discussions through leading questions.	In process
<ul> <li>The DHS and ASI product owners should actively participate to ensure the system meets the requirements, designed taking advantage of new technology and aligns to the 'to be' business process.</li> </ul>	In process
<ul> <li>The ASI should back-track significant differences in design direction to determine the root cause to identify these items as early in the SDLC as possible.</li> </ul>	In process
• The Functional Design Document process, to include the Design Sprint concept, should be clearly defined and shared with all project team members.	In process
<ul> <li>Invite IV&amp;V to all future design sessions and design sprints to allow IV&amp;V to observe and assess the effectiveness of the revised design processes.</li> </ul>	In process
ASI and DHS should work together to vet the in-progress design with all SMEs for the area of focus.	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 stated that, though their infrastructure is complicated and cutting edge, the risk is acceptable given the long-term benefits as they expect the final platform will be highly functional, efficient, resilient, automated, and could reduce long term maintenance costs. IV&V remains concerned with the level of effort and component costs of implementing and maintaining this sophisticated technology and the potential schedule delays if the work is more than expected.	M

Recommendations	Progress
ASI clearly communicate the potential costs and schedule impacts to implementing the planned infrastructure.	In process
<ul> <li>DHS work with the ASI to assess the potential challenges of maintaining a complex environment and consider scaled back options that could reduce this risk and reduce long-term support costs.</li> </ul>	In process
<ul> <li>ASI develop a process to closely monitor cloud and other product changes (software updates/new releases), manage changes, and regression test once updates are applied.</li> </ul>	In process

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#### Testing

#	Key Findings	Criticality Rating
	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.	
66	The computation of the defect leakage between Integration and SIT for the last 2 releases trend favorably and shows that most of the defects/bugs are identified during Integration Testing. This partially meets the recommendations made by IV&V but does not meet all recommendations. The ASI has categorized the defects but has not identified the true root causes or developed corrective action plans to minimize future occurrences of these defect types.	M

Recommendations	
<ul> <li>Adjust the project plan and provide reasonable scope for SIT in subsequent releases taking into account the number of defects and testing time needed.</li> </ul>	In process
Execute System and Integration testing more rigorously.	In process
The ASI should report testing metrics and DHS should monitor this Key Performance Indicator (KPI).	Not started
<ul> <li>Perform a joint Release 0.5 SIT (DHS/ASI/IV&amp;V) Root Cause Analysis (RCA) to identify and take corrective actions.</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 demonstrated the capabilities of the AccessiBe tool as provided by the product vendor. The demonstration showed that the tool can identify accessibility issues based on the chosen or configured rules. The ASI also generated a report to document compliance. It is not clear that this tool will work successfully with the architecture of the BES solution. IV&V looks forward to a future demonstration once the tool is shown to work with the current BES architecture and is acceptable to DHS.	Н

Recommendations				
• The ASI should gain DHS' approval on the tool selected after the ASI validates it will perform as expected within the BES architecture, meeting all contractual and project requirements.	In process			
<ul> <li>The ASI create and communicate the plan for when the ADA compliance tool will be put into action, how the tool will report compliance or non-compliance, how non-compliance will be corrected, and how and when D and IV&amp;V will be provided the reports from the ADA compliance tool and how to interpret those reports for t code from previous, current and future releases.</li> </ul>				



#### Testing

#	Key Findings	Criticality Rating
	Risk - Lack of DHS visibility into regression testing may cause defects/rework within the BES application.	
69	This risk was previously a concern. Although the Regression Testing dashboard provides a significant amount of data, there is no explanation of what that data represents. The ASI has agreed to explain the data in the Regression Testing dashboard to help DHS and others understand it. IV&V will review the Regression Testing dashboard once clearly understandable regression test data is provided.	Н

Recommendations		
<ul> <li>The ASI document the process of regression testing from start-to-finish and then review that process The documented process should include how the candidates for inclusion in the regression suite are how those chosen candidate test cases are validated, how the regression tests are reviewed and how tests are resolved and reported, the timing for when regression testing is scheduled, where the regre cases are stored and documented, and how the project is notified that regression testing is complete accurate.</li> </ul>	e selected, ow failed ression test	
<ul> <li>Regression testing results should be reported to the project on a regular basis and be included in th dashboards. It is important that DHS be informed of all regression testing results of those passed ar test cases and that any failed test cases be analyzed to determine if code or configuration changes made.</li> </ul>	nd failed 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. The BI-13 DED is not finalized as DHS has requested verbiage that explicitly states that federal approval is	
68	part of the acceptance criteria. The ASI believes that their contract already states that they must meet federal standards as prescribed by IRS, FNS, and SSA so they are reluctant to add verbiage to this document. The DED discussion is ongoing. The Security Requirements Traceability Matrix is being developed in Aha and the ASI will be providing a report from Aha for DHS and IV&V to review. Per DHS, this is to be done as soon as is possible.	Н

Recommendations	Progress
DHS and the ASI agree and finalize the BI-13 DED.	In process
<ul> <li>The ASI continue to develop the BI13 Security Plan in close collaboration with DHS.</li> </ul>	In process
<ul> <li>DHS and the ASI agree upon the tools and process that will be used to document and track security control implementation, if not included in the BI-13 Security Plan. The process should define the level of detail needed to track progress (estimates, target dates, risks, issues, evidence) along with the Requirement Traceability Matrix.</li> </ul>	In process
<ul> <li>ASI, per DHS guidance, should begin to pivot toward the adoption of 800-53 Rev 5 since Rev 4 will be obsolete when the system goes live.</li> </ul>	In process

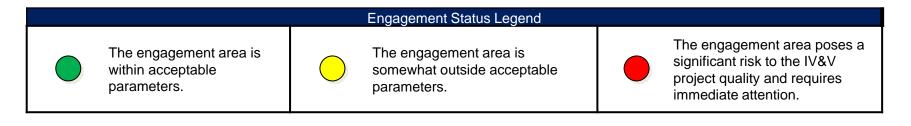
# IV&V Status



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



IV&V Engagement Area	Sep	Oct	Nov	Comments
IV&V Budget				
IV&V Schedule				The ASI is conducting a BES project schedule review that may result in changes to the IV&V schedule.
IV&V Deliverables				PCG submitted the final October IV&V Monthly Status Report.
IV&V Staffing				
IV&V Scope				



### **IV&V** Activities



- IV&V activities in the November reporting period:
  - Completed October 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 December 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-10 R0.6 Common Functions Special Indicators – REVISIONS	11/29/2021	V1.2
BI-31 DED - REVISIONS	11/23/2021	V2.0
BI-29 DED - REVISIONS	11/23/2021	V2.0
BI-14 Release 0.6 Technical Design Document - SSP	11/23/2021	V0.9
BI-11 Release 0.8 BESSD Interfaces	11/9/2021	0.1
BI-21 Release 0.4 Updated and Completed Detailed Functional and Technical RTM	11/3/2021	0.1
BI-10 R0.6 SSP Application Management (No Account), Prepopulate Online Application deliverable (Iteration 1)	11/2/2021	1.0
BI-10 R0.7 SSP Electronic Notes	11/2/2021	0.1

### 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 Weekly Schedule (BI-5)	11/1/2021	N/A
BES Weekly Status Report	11/3/2021 11/10/2021 11/17/2021 11/24/2021	N/A
BES Risks and Issues Log	11/3/2021 11/10/2021 11/17/2021 11/24/2021	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
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	1/22/2015	Rev. 4
ATC Impacts to BES_DHS Exec Summary	2/22/2021	N/A
ATC Impacts to BES_DHS Additional Details	4/9/2021	N/A

### **Additional Inputs**



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

- 1. Weekly Platform Status Meeting 11/2/2021, 11/9/2021, 11/16/2021, 11/23/2021, 11/30/2021
- 2. Weekly DDI Architecture Review Meeting 11/9/2021
- 3. Bi-Weekly Project Status Meeting 11/10/2021, 11/24/2021
- 4. Bi-Weekly BES PMO and IV&V Touch Base 11/10/2021, 11/24/2021
- 5. Weekly BES Dev Stand-up 11/3/2021, 11/10/2021, 11/17/2021, 11/24/2021
- 6. Weekly SSP Backlog Grooming Session 11/3/2021, 11/10/2021, 11/17/2021
- 7. Weekly CMM Backlog Grooming Session 11/10/2021, 11/17/2021, 11/24/2021
- 8. BES Data Conversion Meeting 11/1/2021, 11/8/2021, 11/15/2021, 11/22/2021, 11/29/2021
- 9. BES Data Conversion Working Group Meeting 11/16/2021
- 10. Weekly BES Project Schedule Review Meeting 11/2/2021, 11/16/2021,
- 11. IV&V Team Meeting 11/1/2021, 11/4/2021, 11/8/2021, 11/10/2021, 11/15/2021, 11/18/2021, 11/22/2021, 11/24/2021, 11/29,2021
- 12. Weekly DHS-Unisys Security Touchpoint 11/2/2021, 11/9/2021, 11/16/2021, 11/23/2021, 11/30/2021
- 13. Velocity Discussion 11/3/2021
- 14. R0.6 Weekly SIT Status 11/4/2021
- 15. BES Touch base with DHS 11/4/2021, 11/17/2021
- 16. BES CCB Monthly Meeting 11/3/2021
- 17. HI DHS BES October Draft IV&V Report Review 11/15/2021
- 18. Bi-Weekly DHS and IV&V Touch Base Meeting 11/2/2021, 11/16/2021, 11/30/2021
- 19. ASI/IV&V Mid-month Check-in 11/19/2021
- 20. Executive Steering Committee Meeting 11/18/2021
- 21. HI BES ASI and IV&V Touch Base Functional Team 11/16/2021
- 22. HI BES ASI and IV&V Touch Base Technical Team 11/23/2021

### Additional Inputs – Continued



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

- 23. Monthly Project Risk and Issue Review Meeting 11/3/2021
- 24. [BES] R0.4 BI-21 Updated and Completed Detailed Functional and Technical RTM Deliverable 11/12/2021
- 25. Implementation Planning 11/10/2021, 11/17/2021, 11/24/2021
- 26. R0.6 SSP SIT Exit Go/No-go 11/18/2021
- 27. FMM R0.8 issuance functional sessions 11/4/2021, 11/18/2021
- 28. FMM OP Recovery functional session 11/9/2021
- 29. [BES] DHS PO Working Session-11/2/2021, 11/9/2021, 11/16/2021, 11/23/2021
- 30. CMM Product Owner Meeting- 11/1/2021, 11/4/2021, 11/12/2021, 11/18/2021, 11/19/2021, 11/23/2021
- 31. CO20 View Alerts Product Owner Meeting 11/5/2021, 11/12/2021, 11/19/2021
- 32. Interface Consumption DHS PO Meeting (CMM Interfaces) 11/2/2021, 11/4/2021, 11/9/2021, 11/16/2021, 11/23/2021, 11/30/2021
- 33. MDM Data Sharing and Consent Management 11/4/2021, 11/16/2021, 11/18/2021, 11/23/2021
- 34. [BES] Release Checkpoint 11/4/2021
- 35. [BES] R0.7 Sprint Demo CF07 Manage Case Assignment 11/4/2021
- 36. Sprint Demo 11/8/2021, 11/23/2021
- 37. [BES] R0.6 Sprint Demo CO05j Manage Asset Information 11/18/2021
- 38. [BES] R0.8 Prototype Review QM24, QM24a-f 11/18/2021
- 39. [BES] R0.6 BI-22 Walk-Through SSP 11/19/2021
- 40. R0.5 and R0.6 RCA Review 11/22/2021
- 41. BES Defects and Enhancements Action Item Updates 11/10/2021
- 42. Review ADA Compliance Sample Report 11/16/2021
- 43. Junit test case Demo 11/24/2021

# 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**

Finding Title	Reporter	Finding Id	entified Category	Observation	Significance	Recommendation	Event Horizon In	npact Prob	ability Anal	yst Findin	Status Update	Client Comments	Vendor Comments Risk
74 The ASI demonstrates the ina accurately plan and execute to the BES project schedule, will result in late deliverables, cos increases, and a late go-live.	asks in ich could t	Risk		schedule with results that have not yielded improvement Concerns with the structure, estimating practices, and ability to manage to the schedule persist. The use of multiple tools to track resources obfuscate resource management.	constant schedule changer, resources not being available when needed, nuclead activities, and general furstantion which can lead to schedule delays, low quality output, scope changes, and budget tissues.	needs along with over/under allocations of saff for the duration of the project - Develop mitigation and contingency plans that are tracked/imanaged by DHS/ASI for all lasks that are behind schedule or are at risk of being behind schedule which includes resource management - Discuss, validate and address additional concerns within the project processes that may accume the project delays bert than inaccurate estimates such as over relance on POs, slow design sprints, and cadence of development teams.			Med				statement.
73 The planned BES infrastructure complex which could be difficult implement and lead to sched impacts.	ule/cost	Risk	//28/2021 System Design	complex cloud infrastructure. Terther, the hogicsT team have set for fails components that will make up the EES configure, test, and implement the plasmed complex environment remain unclear.	project could be met with unexpected costs and schedule desp Debyn analizing the components being implementaria could exacehate the hirsk and and analizing the components being implementaria could exacehate the hirsk and and operations challenge as system charge can bold the increased peterbin (exacehater and the second sec	implementing the planned infrastructure. • DHS work with the ASI to access the potential challenges of marking's compare environment and conduct scale tack options that could reduce this risk and reduce long-term support costs. • ASI devices that could reduce the reduce three product charges (schware accessed), manager changer, and regression test once spidates are applied.	Next several 3 months				11/2921: The Add stated that, though their infrastructure in complicated and outting edge, the init is acceptable given the long entre herefits at they expect the final platform with be highly functional, efficient, realiset, automated, and could reduce long term maintenance costs. Wi this sophisticated technology and the potential schedule delays if the work is more than expected.		
72 The inability to measure and the overall tota conversion effort and progress may lead schedule sippage.	vork	Finding - 8/ Risk	11/2021 Project Management	tactical level, focused on just-in-time work as the releases of BES are developed. However, clarity on progress at a	Data Commission (DCI) is often considered one of the longest and most complex take in a Dorpice. As the release at more complex and impactfue to the overall BIS solution, it is ortical that the project team understated IF Coveral is on schedule for bits and implementation and take mitigation actions if nats are identified.	- The AS hould develop reports with metrics that accuracy measure the Data Comersion programs. The Dis DB dB dB development committee outline to charly the usage of MDM so the BIS conversion team adapts to the glanned governance accurations. The DB dB development of enduate the least In the (III) monitored/managed The DB dB conversion team consider using use cases and story points to measure progress.	Q3 2021 3	2	Med	Open	11/20/2021. The ASIs ourrently re-estimating the maning blat Conversion work and is developing a DBC conversion Dabboard in Hered to provide a competence will work completed and emaining. Additionally, the ASI addet ad Ada modeler to the blat Conversion Dabboard in Hyber Program Conversion Dabboard Hyber Program Conversion Hyber Program Hy		9/9/2021 - RAP: The ASI acknowledges the need to update the second of the second progress. We will provide an update in September.
71. The lack of the final agreement scope and costs of the Googne may keep do costs of the Googne may keep to unanticipated D schedule delays, and/or the n reduce scope.	e Cloud est (CR) IS costs,	Finding - 8/ Risk	22/2021 Project Management	codified the migration of some of the BES environments from an on-prem to cloud based solution however, not al details were vetted at that point in time. In the July/August 2020 timeframe, DHS and the ASI agreed to have all BES environments migrated to the cloud. Since then, the scope has been adjusted and the CR is being	I the ASI/DHS SOAP Contract Amendment finalized in April 2020. The decision to migrate all BES environments to the cloud was made in the July/August	The 64 should document the current environment M and 0 doctivities to ensure all excitities are known with a docr understanding of the 7.6 St 3 and 7.0 BF model for services tegening with the DLD, honugh NieU/Implementation and M and 0. The doct keeping document the scoped what what doct for the GCP CR barge DD and M and 0 and provide to DHS for approval DHS and the ASI agree to a firm delivery date for when DHS will receive the GDP CR.	ASAP 3	3	Med	Open	In (A)(2)(2): Texh has received information and princip for the (GPC 4 from the AS The AL and AL		9/9/2021 - RAP: Point of darification. The SOAP agreement did not establish that the project would be displayed to the could be displayed to the down in the Cloud and specifically that deplayment would we be to the on premise worksoment. Hoge that deplayment may move to the Cloud. The final decision to move to GCP for production, was made in Air 3020. The costs for Production, and Busker Recovery environments were not invided in the SDAP agreement nor did the AI agree that there is no account to make the application of the AI agree that there is no account to make the application of the AI agree that there is no constance to work through the CR process for the
70 Insufficient configuration management could lead be development confusion and the effectiveness of bug resol		Concern 8/	23/2021 Configuration and Develo	framework for the Configuration Management Plan, however, it remains unclear if sufficient progress has been toward establishing CM processes, selecting CM tools (e.g., CMDB), and building out the CM infrastructure. The projects Google Cloud Platform (GCP) Change Request and Security Plan have yet to be finalized	Configuration Management Is and graceases, and proceeders that ensure the IS is in undrased and works correctly. The IS solution includes toxis that may provide a level of automation for Configuration Management that any reduce errors and aboulg provide the project team with accurate, dynamic and limitly information on some of the configuration terms. However, IS is indicated the Dick/SA agree to the IS is of items that are management of the configuration items, reporting and audit features.	<ul> <li>Add abset to draw for configuration management as documented in the 6.00.</li> <li>Ama, Societon 32 and carly draits and/or configuration these 3.5 windset plans for configuration management with DHS and agree on a meaningful ast of configuration Management. Achiets: hat would provide versight of configuration management achiets: hat would provide versight of configuration management achiets and aurur defined for UK steps and plans are being followed, are effective, and are subvering DHS objectives for CM.</li> </ul>	ASAP 2	2	Low	Open	112/32/12. The Add anated their plane to adline device there as their Coeffiguration Management Databases (XXMB). It calling the in failed sense in their Coeffigurations and provide system support personnel with an effective means to revolve system coeffigurations and provide system support personnel with an effective means to revolve system allowations of the Add of their coeffiguration management plans. 102/3212 The Add has made approxes in their coeffiguration management plans. 102/3212 The Add has made approxes in their coeffiguration management plans. 102/3212 The Add has made and their plans and their coefficient plans and their setting and management reglicating and improving on KULAS (XX approach which only tracks the most critical coeffiguration times, queries a coefficient on the Add has and and critical queries of the Add has a setting the setting of the Add has a setting of the Add has and the Add has a setting the setting of the Add has a setting of the Add has and the Add has a setting the interface of the Add has a setting of the Add has and the Add has and the Add has and the Add has a setting of the Interface of the Coefficient of the Add has and the Add. It revolves the Add has an experised to his hypose of the Add has an experison of the Add has and the Add Has and the Add has an experison to the Add has a setting the Interface of the Add has and the Add Has and the Add has the Coefficient the Add has an experison of the Add has and the Add Has and the Add has the Add has an experison to the Add has and the Add Has and the Add has the Add has an experison of the Add has the Add has an experison of the Add has and the Add Has and the Add has the Add has an experison of the Add has the Add has an experison of the Add has the Add has an experison of the Add has the Add has an experison of the Add has the Add has an experison of the Add has the Add has an experison of the Add has the Add has an experison of the Ad		The Lipprocess to the V(X)201 - RAV Ve look forward to receiving specific inquires from the IV&V team on configuration and having conversations. We do acknowledge that the plan likely needs to be updated to refer the project for configuration management.

inding Title Reporter	Finding Identified Category Type Date	Observation	Significance	Recommendation Event Horizon Impact	Probability Analyst Fir Priority St	nding Status Update	Client Comments	Vendor Comments Risk 
(d) Lack OfDK visibility kito regression Exit Burba tening may cale defect/freework within the #ES application.	Finding 7/28/2021 Testing Rok	questions posed by the PCG IVV team that clarified more completely the plan for conducting Regression Testing. Since the actual automated test scripts are in Bit Bucket		#20/2012.11= Ad decument the process of regression testing from start-to-finds and then review tark process with 0KT. Howe commend process build include how the candidate for inclusion in the regression suits are reviewed to consider the transmission of the regression suits are reviewed to the review tark process are validated, build the regression starts are reviewed testing is scheduled, where the regression testing a complete and accurate. Regression testing results for exported to the project on a regular basis and be represent testing testing the testing to complete and accurate. Regression testing results of those particular testing is complete and any fulfield test (as set the analyzed to determine if code or configuration changes need to be mode.	s High O	• 11/2021 - This risk was previously a concern. Although the Regression Testing dashboard provides a significant amount of data, there is no explanding to that that data prepresents. The AD has agreed to explain the data in the Regression Testing dashboard to help Dd sind others. A second that the data prepresents. The AD has agreed to explain the data in the Regression Testing dashboard to help Dd sind others are previously as given that the data prepresent. The AD has agreed to explain the data in the Regression Testing dashboard to help Dd sind others now available, if do evol point data data with the data prepresent. There are all types of Failures reported in Regression Testing a through now available, if do evol point data data with the data prepresent. There is a parameter that the dashboard are in previous data that the regression Testing is the dashboard are in a grances. There are all types of Failures reported in Regression Testing is the other of the dashboard and the previous the dashboard and the dashboard and the dashboard and the previous the dashboard and the previous the dashboard and the dashboard and the previous the dashboard before the totax - Testing scheme the dashboard and the ASI and previous the dashboard and the ASI and previous the dashboard the dash previous the dashboard the dashboard the dashboard the dashboard the dashboard and the ASI and the dashboard the d		5/9/2021 - RAP The AS dispate the overall server of the finding value of the construction of the server testing, Represent the server discussed with the Volue discussed wi
Insufficient planning/execution of the Jeremy Riley     En Selay in p Thin a thread in a low of the selay     provide the total selay of the total selay     provide total selay to begin the Nice     Phase.	Finding 7/28/2021 Security and Privacy Rok	BI-13 Security Plan while also managing through ASI Security Lead staffing changes. DHS and the ASI agreed t modify the BI-13 Security Plan Deliverable Expectation Document (DED) last month and are currently revising it	<ul> <li>team plans to utilize the BES Security Control Implementation Workbook to document the status of each control. The Security Control Implementation Workbook must be detailed and allow for ease of referencing to the Security.</li> </ul>	the tools and process that will be used to document and track security control implementation, in on included in the Bit-13 security Plan. The process should define the level of detail needed to track progress (estimates, target dates, risks, issues, evidence) along with the Requirement Traceability Matrix. Ab, per DHS	3 High Cy	import of the status of regression testing activities. Follow on research and activities the 112/02/231-The EB 31 DB to not finding activities. Follow on research and activity states that the abspire of the S1 DB to not finding at the BA regression testing that equilibry tastes that the abspire of the S1 DB to not finding at the BA regression testing that equilibry tastes that the abspire of the S1 DB to not finding at the BA regression testing the S2 DB to the BA regression testing activities and the S1 DB to not finding the S2 DB to PA regression testing the S1 DB to not finding the S2 DB to PA regression testing the S2 DB to not finding the S2 DB to PA regression testing the S2 DB to PA regres		box. 99/2021 - MAP The detailer to more to GCP for deployment bas drawn here reed for a complete rewrite of the security pila per DMS. The ASIs in the process of match these updates. The effort required the complete this work will be included in either the GCP change request or a new thicked of the the GCP change request of the complete this work will be change of the GCP change request or a new thicked of the the GCP change request or a new thicked of the the GCP change of the GCP cha
67 The Americans With Disabilities. Act Earl Burba (AdA) Section 380 compliance tool han not been installed for the project, which may cause significant rework.	Finding 7/12/2021 Texting Roak	ASI over the past several months, but there have been evidence of results to-date. The ASI did state that they are coding to some of the ADA requirements and are using a desk-top tool for ADA compliance as an interim solution. IW has not received any data to demonstrate	The ADA Section 508 Intent is to make electronic and information technology accessible to people with disabilities (e.g., color blindness, vision and hearing disabilities), in a way that is comparable to the access available to others. Part of the system acceptance criteria for BES is to meet "all applicable State	Al2/Q2L2: The Xd should gain DMS' sporved on the tool selected after the Xd validates in will perform an expected within the XB architectum, metricing all possible and contractual and project requirements. The Xd create and communicate the plan prior to final denotes the Xd. Adv. Comparison of the Xd create and communicate the plan when the Xd. Adv. Comparison to will be plant to action, bow the dot impact of the Xd. The Xd. Comparison of the Xd. Comparison to be when DKS/VV will be provided the reports from the ADA compliance tool and how to interpret those reports for the code from previous, current and future releases.	S High O	• 11/2021. The Ad demonstrated of the capabilities of the Accessite total a provided by the total vendor. The Ad demonstrate of over the total control accessitiant accessitiant years based on the closes or configured rates. The Ad Jaio generated a report to document compliance. It is not document compliance, the other accessitiant with the advistance and the Bit Solution. Wholes architecture and a accessite to DKS. 102/72021. The Ad Jaio generated accessite the Bit Solution. Wholes architecture and a accessite to DKS. 102/72021. The Ad Jaio generated accessite the advisor of the Bit Solution. Wholes architecture and a accessite to DKS. 102/72021. The Ad Jaio Bit Solution. Wholes architecture and a accessite to DKS. 102/72021. The Ad Jaio Bit Solution and Solu		9/9/21 - AdP. The AdJ has invited the V&V to make constart with the in- the V&V to make revew the transition of the revew the transition of the revew the transition of the reverse the transition of the reverse the transition of the reverse the transition of the reverse transition of the reverse transition of the development lead on have tags of the tags of the reverse the tags of the reverse transition to the reverse transition of the tags of the reverse transition of the reverse transition of the reverse transition of the reverse transition of the tags of the reverse transition of the reverse transition of the reverse transition of the reverse transition of the rev
66 The number of states/dotes.is found . Earl Burba doing straing my cause drimmer, work in the future spirits to be adelyed of use the resolution and retesting of issue/defects.	Finding J23/2021 Testing Insur	During discussions of UAT program and metrics the immune of distance from all image this match of the image appears granter than what would be expected during table. On 3/29/2014 at the conclusion of 0.3 grains 3 there were 300 reported directs (4 High, 150 Medium, and 2012 Los Secreti) where 318 are "Uncome of 0.4 Secretion 3 directions and a "that 2 beliefs", and 32 an market a direction of a a "that 2 beliefs", and 32 an market a direction of a secretion of the direction of the direc	and delivered meets their needs it is important that UAT be successfully completed. The high number of defects synapses of the successfully planned progress there may be an inclination to shorten the time needed to complete UAT.	Anderen sujeke Rakera PGASUPUN Bard Cazer Andreja (BAL) is identify at this increticate class. IURIC Complex (large) the project is and or printed reasonable scope for SIT in subrequent releases taking this account the number of edicists and testing the media. Validate all UZ defects are released in SIT to ensure they are included in Regression Testing. SUIG Concepts and Hosen parts impartion taking menejonavity. Tesk SIT 2007 to Economies and Hosen parts to the prosterio and the strength of the SIT and the SIT and monitor this key horizonta (IRI). (ISIO 1000 to Economies and Hosen parts to SIT and entrace circulate) (IRI). (ISIO 1000 to Economies and Hosen parts to SIT and entrace circulate) (IRI). (ISIO 1000 to Economies and Hosen parts of SIT and entrace circulate) (IRI). (ISIO 1000 to Economies and Hosen parts of SIT and entrace circulate) (IRI). (ISIO 1000 to Economies and Hosen parts (IRI). (ISIO 1000 to SIT and IRI). (ISIO 1000 to Economies and Hosen parts of SIT and entrace circulate (IRI). (ISIO 1000 to Economies and Hosen parts (IRI). (ISIO 1000 to SIT and IRI). (ISIO 1000 to Conse Analysis (IRI) to dentify and take corrective actions.	3 Med Cy	11.20/2011. The compaction of the defect lankage between thergenions and 51 for the tast 12 relations the term of the defect lankage and instantial damage interpretations the defect lankage and instantial damage. The defect lankage and the defect lankage and instantial damage lankage lankag		7/20/21 BAP - In response to the specific recommendation, we are taking the following actions: Recommendation 1: Use will perform a RGA will perform a RGA will perform a RGA the month. Recommendation 2: In progress, wa are currently planning to integrate the UAI and ST test. UAI will be reserved to FAT. Recommendation 3: All will be reserved to FAT. Recommendation 3: All will be reserved to FAT. Recommendati

Finding Title	Reporter Finding Identified Category	Observation	Significance	Recommendation Event Ho	rizon Impact Pro	bability Analy	st Finding	Status Update Client Comr	nents Vendor Comme	ents Risk
65 Insufficient project availability of DISS BISSD durity the project bolicolism knowledge could had to a BISS owned to be a BISS of the BISS of the BISS BISSD and BISSD and BISSD and BISSD and BISSD DISS business needs.	Risk	A to de la servición de despeto la trappero fuero e a de esta de la servición de despeto la trappero fuero de availability to von che progreto transver de la 53 system meets the business need and requirements.	ESSO tará unh neparite boines hovénége a da radialitar ar or tinda legiorgis ta anon una conserva ned da conserva da decisión deconnente a tre nev system is designed aré developed.	9/20/2022 - DNG continue planning transitioning, and astigning to staff changes In AAAP projects is check and anni-1. Obs continue to inder Mid Staff Staff Staff changes - In project as the proper programs In programs and continuous. DNG develop a properties to be used abort term models are indexed in the staff of the staff staff staff staff DIG in the short term models are indexed interfaced and the staff staff staff and activities where there is a staff schematid and DIG monours Complete is before and activities where there is a staff schematid and DIG monours Complete is before the new BIS Product Owners to ensure there waystern takes advantage of new technologies and aligns to the planned business pincenses.	1 1	Low		11/16/2022 DoS IESSD taff with expansive business toorkings have been sufficiently available for the project, expecting in the lat month where the available start of DS Pha base here here and involved. There is significant improvement with the available of DS project sevens. SME, and end the project expecting in the lat month here the available of DS project sevens. SME, and end the project expecting in the later of DS project seven with the end the seven start fragment is approximately and the project seven start of DS project seven start fragment is approximately and the seven started and avail length on Cobiert 2, 2021. The thereas the project seven started seven started and avail length on Cobiert 2, 2021. The thereas the project seven started seven started and avail length on Cobiert 2, 2021. The thereas the project seven started seven started and avail length on Cobiert 2, 2021. The thereas the project seven started seven started and avail length on Cobiert 2, 2021. The thereas the project seven started seven started and avail length on Cobiert 2, 2021. The thereas the project seven started seven started and avail length on Cobiert 2, 2021. The thereas the project seven started seven started seven started seven started seven started added a Report. SME and two additional latel for the ULA transm. DEC contrusts resources for the Cobiert 2, 2021. The DS before Cobiert Common control and latel to the started added advection making and designing tells to tail and beautions the started seven the additional length of the started cobiert Common control and latels to the started added advection making and designing the there are related seven the added seven the started project rook, which is having a patients in the Line design. DeS tas and designing tells to tak advantage of the new technologies. Des tas advanted is the project with the started seven started to the ST Project Manager (Refere V2, 2021) and the DS based seven started to RFS Project Manager (Refere V2, 2021) and the DS based seven started to RF	4/2/12/12 kero and/of a number product averer mentitive and a number of a number of a number of a number of a number of a number of a number for decisions be	rr of s to the e past few wen them o make is for the his has rovement and time
may result in schedule delays.		Connectively is planned to utilize a presently undefined IT:3AP Gateway, howers, how is no evidence that detail have been determined or documented in this communication with interface partners for coordination, design, and testing activities (Unit Tes, 517, UAT). Interface planning activities (Unit Tes, 517, UAT). Interface planning activities (Unit Tes, 517, UAT), including those for interface partners, are neither arcident nor managed within the Project Scholed A numanizability of interface partners, during interface implementation after MAG have been exproved, testing dates have been confirmed, and communications have been frequent.	implement data haring. A clearly defined communication plan and schedule that includes the conditions, planning, and execution activities along with millions dates may minimite the triat of possible doisy. In addition, after data and the second schedule doisy and the second schedule doisy and data and the second schedule doisy and the second schedule doisy and tested before deploying the system to production.	L databite in communication plane for such imprifice partners for the details of the DB 201 activities. 2010 CMDRETE 2 under and document all interface partners contacts. J. Defines detailed schedule for each interface is include milestone datas, conductation, and execution the interface partners. A literativity and detailed schedule dataging of all interface. Schedulers and datas and detailed schedules dataging of all interface. Schedulers and datas preparation porcedures for interface implementation in the scheduler and calculated preparation porcedures for interface implementation in thereface partners. B preparation porcedures for interface implementation in thereface partners during interface implementation.				11/29/2022. The charges to the interface communication plans in this reporting period. WV has concerns regarding the 12-bdy certification process for the 18 interface. The ULB modemization concerns regarding the 12-bdy certification process for the 18 interface. The ULB modemization DDIA. These real items may inpact the project tabeload, the tasking process for the 18 interface process the 19 interface and the 19 interface control. (10/Ka) is statistical tasking the tasking the project tabeload tasking the tasking process for the 18 interface control. Interface tasking the project tabeload tasking the tasking process for the 18 interface tasking the tasking taski	2/20/21 AM-1 team requests ti of the results of the View research has not an intig the View research has not been to taken the result of the taken the results of the results	that the he severity he of the severity he of the severity more attension actions are actions and actions and the second the the the the the the the the
12 Isolality to measure development team velocity and impact the electrony data of the remaining delivery data of the remaining features.	Al Pangelinan Fincing - 12/28/2030 Project Management Isoze	The subcontractor development teams don't currently track and report Sprint velocity to the ASI.		<ol> <li>Calculate the average velocity from past iterations to be used as a historical         ?         reference. 2. Provide velocity charts with onestined and completed tracy points for projects decumented in size. 3. Optimize work based on estimations.     </li> </ol>	4 3	High		11/15/2022 M4V met with the AS don November 14 dis discuss the velocity charts. There are as development taxes, IF (FA CMar al 12:653), WAY found that the velocity charts contain a set of the CA CMar al 12:653, WAY found that the velocity charts contained the velocity charts in a relative set of the VAR of the CMAr and VAR of the VAR	4)9/121 Lab. P 14 the host of firmin regranding glasmin estimates for 55 VIAN is extended and the second second second second maintaining ator maintaining a	7/20 Fing SP. The te to reach re regularly rest to reach rest to reach rest to reach rest to reach rest to reach to the te and would to the te and ment on ext ry are just te process, o have that reallows. First in tatement that ng tracked
61 Proving rescaled JAB and design session cardial leads in accurate design and rework.	Brad Finding: 11/35/2020 System Design Issue	with the following concerns being observed, - No clear introduction to all participants on the goal of the JAD, overview on the process and the importance of their participation On many occasions the conversation needed to be driven by leading questions, as expected,	some concern regarding the CMM Workflow IAD assions, specifically; (1) Do the IAD participants understand how the Case will be managed through workflow? (2) What improvements will be made in the new BES to support the users and clients? Incomplete or unclear IAD assions with insufficient documentation could lead to a poor delay, lakcing the datas needed to support business requirements; as well as missing opportunities to improve workflow and related system design.	-JAD and design excession, should be lead by repertienced on-loss like, shot peak, and an and second secon	4 3	Med		backge Vectory's being tracked for the SSP goint team but yc consistently commut to more 112/02021 - V/c constraints or namy up particular in degra sprint meetings. WY downed that new/replacement DMS PAs where were ont molecular aircramatines regular a result of gradin new/replacement DMS PAs where not molecular aircramatines regular a result of the start of the start metal result of the start of the start of the start of the start of the start metal result of the start of the start of the start of the start of the start metal result of the start of the start of the start of the start of the start metal result of the start of the start of the start of the start of the start metal result of the start of the start metal result of the start of the start start of the start of the start start of the start of the start start of the start of the start start of the start of the start start of the start of the start start of the start of the start start of the start of the start start of the start of the start start of the start of the start start of the start of the st	for the SSP and th	he IV&V e in many prign mg screen mg screen mg screen mg screen product ons are illimited he team is ut the he team is ut the the IV&V asson: 11 always State always state alw

Finding Title Reporter	Finding Identified Category	Observation	Significance	Recommendation Event	Horizon Impact	Probability Analy	st Finding	; Status Update	Client Comments	Vendor Comments Risk
60 System Integration of the BES mfors Modules (CMM, FMM, SSP) will be	Type Date Finding - 9/30/2020 Integration and Interf Risk	ace The BES Modules (CMM, FMM, SSP) are developed by separate teams and demo's are conducted separately	Failure to perform integration testing and/or proof of concept integrations early in the development effort could lead to unexpected design and	<ul> <li>IVV recommends prioritizing the build and testing of integration points within each N/A module to assure integrations (through early end-to-end testing) meet expectations</li> </ul>	3	Priori 2 Med	ty Status Open	11/29/21 - The ASI stated that communications between their development teams have improved, and as result, moved some integration components into earlier releases. However,		Statem
developed in the later releases v. a contravoue integration model within each nelease which may cause schedule delays.		with each release. Integration points between the modules are currently stubbed and the ASh are to demonstrate integration of the modules and end-to-end functionality.	technical complications are well as bugs as golve approaches and lead to unexpected delays, " by bugs in strengthous thready towards the end of development could rould schedule sippage if components do not integrate as expected and additional testing time is required once requires are completed.	throughout development instead of wating to perform them for the first time as go- live approach Consider implementing continuous integration where each release demo cauld be a collaborative effort between the disparate development terms to a bar and a second second second second second second second second approach with the integration strategy for handling risk associated with their integration approach.				most of the integrations are scheduled for implementation shortly before galve based on the pipert schedule. Toget221- increased communication between the AV's development teams is improving asch team's understanding of integration requirements and impacts to each team's concerned that implementation of one implements with a contract that the relases which could lead to unspected issues and leave the project little time to correct these situss. OX/2712-1: The AB is stated that survey integrations will account the end of development work and they are evaluating whether any integration spins can be completed ascent than originally planed. This concerned that pupuling this work towards the end of development work and they are evaluating whether any integration points can be completed ascent than originally planed. This concerned that pupuling this work towards the end of development to develop and test. QR/2021-1: The AB has tabled they intend to demonstrate some: DMMS/SP integration apart of testes 0. Alt thosis of relases, n.t. remains under at all integrations will be completed and fully tated without schedule slipages. The AB has described they plane milliong this related without schedule slipages.		7/30/21 RAP - Integration of the core modules (SSP & CMM and CMM & FMM) will continue to evolve in future releases. Rob will demonstrate the first integration points between CMM & SSP. This is now four releases before the final planned development release. Science m CMM & Current will begin in 80.7, 3 releases before the final
								between ther development groups, 07/27/201 - This reporting period, I/V desived improvement in the planning efforts for the integration of the BSC scene modules. Each of the upcoming releases plan to demonstrate the first integration plants between CAMUSSF and the weak of the step of the organization of the step of the step of the step of the step of the OUZE2021 - This reporting periods (W reviewed the SSP Integration plants. The document wait dreight the integration approaches for the identified SSP Integration plants. The document wait dreight the integration approaches for the identified SSP Integration plants. The document wait dreight the integration approaches for the identified SSP Integration plants. The document wait dreight and the integration approaches for the identified SSP Integration plants. The document wait dreight and the step of the document will continue to evolve and is a positive the towards the mitigation of this inti- document will continue to evolve and is a positive the towards the mitigation of this intis.		releases before the inal development release. The ASI team is mitigating the risk stated by the VBW in 3 ways: 1) gaining agreement from both development teams on the integration methods, and service contracts as noted in the July report from the IV&V, 2) providing a periodic
49 Peor quality project delenables may lead impact system design, testing artifacts and the project schedule.	Finding - 4/16/2020 Project Management Issue	Control Bocument delevanable were submitted for class review. There was an energie of IS comments submitter for each of these deliverables. The documents is deliver flow, an insufficient level of a test, and a sub- flow, an insufficient level of a test, and a sub- dimetical main attentional perspective. Both Signed this lose in the Project Issue Log for corrective action by the lose in the Project Issue Log for corrective action by the AS. The dd actual perspective. Both section lose ac- amples and provided DRB and for the high-level result.	project traffic and has caused schedule delays due to the associated revent ended for remediation. If poor vallety delayed became to the produced and submitted for review, this can contribute to result in training activities, potentially unfulfiled functionality, and additional schedule delays.	submission of subsequent deliverable [] Ossed 7/20/2021. All reviews its Quality Management R has care learn that the project working with the lage duellene of this Plan document. In particular, the ASI should evaluate and consider if it is in alignment with Sector 20.1 J. Beauxer Project Quality, which states, All measures process and product quality by 11 particing RBS implementation process and product with scalars for each component activity. All context of the pro- sent scalars of each component activity, and the scalar scalar scalars and 9.1 combining the recorded attribute values into a single number called a process quality index. (Whi can conserve officient functing the ASI a tuility metrics to measure its process and product quality AXI verifies that the information in design and leasting effects least in year and conserved ASI perform a cot cause analysis with IDIS and IVV in attendance to determine the source of the design defects.				effects compared to prior releases, which could inflect improvement in the quality of deliverables. V/W universite the ord curve analysis when provide by the AU. 10/12/021 DHS tating term reported incombinations between winflames and Functional Deliver Documents, the prior term reported incombinations between winflames and Functional Deliver Documents, the prior term reported incombinations between winflames and Functional Deliver Documents, the prior term reported incombinations between winflames and Functional Deliver Documents, and the prior term reported incombination of the prior term reported prior definision of the prior term report and the term of the prior term reported and reported in April 2021 that they would publish proposed quality metrics, but its has not conscript that a structure in the prior term of the prior term of the prior term has indicated they do plan on providing updated quality metrics, but align with the revised prior with the revised plan on providing updated quality metrics that align with the revised in any beta lower prior by them is not the project deliver the SUC charges thin may be a lower prior by them is not the project deliver that the prior term the apprior periods. Deliver and the units the origination of the SUC charges the prior term of the quality of deliverse. The XH is currently applicated the day of the one project term in design-related day and the currently the reporting periods. Deliverse the XH revised process metric base is curved applicated the quality of deliverse. The XH is currently developing additional quality metrics to quality these improvements. The valid one currently developing developing additional quality metrics to quality these improvements. The Valid current in design-related discussions to having reportse term and the relative of deliverse. The XH is currently developing	III-10 wis initially called back for quality issues, and the issues were corrected. DHS in not comfortable revited again.	respond to this issue
47 The COVID-19 pandmine and the mifers related "style tome" order could head a project act these and more than the style of the style schedule and budget.	Finding - 3/29/2020 Project Management Risk	home, work from home" ander that has induced state departments" shall be be fully functions as the targe majority of state workers will be required to work from offices may be comprised who down with that times as well. Unclear if the order will extend beyond that date.	not only hy vorching remetely but also by the need to focus on delivering vorcines to beneficiares. Remetel ky activities such a derign services to beneficiares. Remetel ky activities such a derign services may be facilitated remotely which may impact the quality of the susions. Gain were also also also also also also also also	organization through this COVID 32 pandemic in the short and long term. Complete - Send braid communications to attached one to save of ear understanding of changes to the project with this regard to impact of COVID as well as clarifying the structure of the structure of the structure of the structure of the structure exclusion of the project-covid structure of the structure of the structure encourage independent phone conversations to enhance and accelerate communications, and for team members not wait for meetings to converse.	2 :			112/52/12. The Adh has transitioned their team from working remotively to primarily working in the relational ordinates and advector team is unclear advector the new COMD variant their insolutual direct and ordinates 2012 (2012). The Adh has reserving a set of Code 2012 (2012) and 201		20072140-Title All Proves that Collor this times it levels that the times it levels a low rink to both schedul and botuget for the project despite team continues to maintain social distancing in the office in line with Statemanitation in the schedul fearer resources threading reached the new normal in forcolulu. This includes fearer resources threading in characteristic and the project has adjurated to the lack of in preson methics, in our dif share office, we still and office, we still more. We expect that to continue for at least the reach of the years incorrect that above resources there in the ordine the project has adjurated to the lack of the project that the continue for at least the react of the years. Incorrect that above resources have ameliorated since the
43 DIS MMQ project team members have Ryan transitioned for project, which may cause gaps in knowledge transfer and leadership on the project.	Fieldig - 1/10/2020 Project Management Issue	PMO, BES and ASI project team members are planning to retire or leave the project within the next few months or	DHS and its software, solutions, and business processes, along with a level of consistency and continuity to the stended project team. This experience and knowledge is critical for the BES DDI and KOLEA Modifications, and planning efforts for BES Maintenance and Operations activities.	513/021. DIS continue to and with the spoppoint organizations to identify the A&P ford necessary for the propert and forgers. The stat build document a transition pain for the propert and PMO resources as identified in the RPF (reference RPF accion 3.4.3 Staffar). The pain total include the population of the table build include the population of the state build include the population of the state build include the population of the propert and document a transition pain for each RPF property and document a transition pain for each RPF property and document a transition pain for each RPF property and document a transition pain for each RPF property and and and the property and the RPF property and the population property and the RPF	3 !	s High	Open	12/2/2021. No material updates in the reporting profile. 10/21/2021. No material updates in the reporting profile. 3/2022. The Statement updates in the reporting profile. 3/2022. The Statement Updates and Landschleid the DHS ES The Statement Updates. The Assistant BLSS Administratic, unversion of the Statement Updates. The Assistant BLSS Administratic unversion genetative BLS project Manager material updates in the reporting profile. 3/2022. The Manager resigned from DHS. To mitigate the Isovardate processing extensive BLS project Manager with the Impact of Integrating and the Assistant BLSS Administrator will provide an active de ciscion maining DHS / 2/2022. The Assistant BLSS Administrator will provide an active de ciscion maining DHS / 2/2022. The Integrating profile. 3/2/2022. The Manager Integrating DHS / 3/2/2022. The Manager III S/2/2022. The Manager IIII S/2/2022. The Manager IIII S/2/2022. The Manager IIII S/2/2022. The Manager IIIII S/2/2022. The Manager IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	not agree with MVA high-critically entities on the field (H4) and DMS critical can the DMS house to the DMS target on an analysis. The DMS target on an analysis of the NMS and the DMS target on analysis of the NMS and DMS and the SMS and Responsibilities document to NMS house to the DMS target on analysis. The project inswhed in Achi- che project inswhed in Achi- che inspect inswhed in Achi- che inspect inswhed in Achi- ter of the Achieven and the Resistance of the Achieven and the Resistance of the Ach	4/22/21 RAP - From the changes to the project management of the BES project have provided little impact on the overall project. At this point, the knowledge transfer gaps have been closed and the leadership of the project remains strong hands from DHS. We recommend that the IV&V reasons the

Finding Title Reporter Number	Finding Identified Category Type Date	Observation	Significance	Recommendation	Event Horizo	on Impact	Probability An: Pric	alyst Finding prity Status	; Status Update	Client Comments	Vendor Comments Risk Statement
	Findlag - 5/28/2019 Project Management Loue	with implementing two Siebel instances (one for KOLEA,	Incluive of all known future solution plains as possible. As an example, if NCLX and RES are more to a single instead of Sineli in the future, planning for that integration should be incorporated in the project now. If such agrificant future changes are not planned for now, the project is likely to see increased complexity, rework, and costs when integrating the two systems in the future.	• The AS continue to make updates to the IB-12 system Architecture Deliverable with additional datas in the yecome analysise and with any architectural changes are finalized. Complete: DFS should finalize the Pord at transparate and the DFS and a transparate and a project team. The project band continue to ver sposifier architectural datages inspaces to the platform (log, A, AD, Configuration for finalized project). The architectural datages inspaces to the platform (log, A, AD, Configuration for finalized project) teams. Continue to the sposifier that and architecture data data and a subscription of the analysis of the architectural datage inspaces to the platform (log, A, AD, Configuration for finalized project) and a subscription of the advectory of the architecture data and architecture data cance optimal collation of these decisions. The project should continue to ensure optimal collation of these decisions. The project should continue to ensure optimal collation of these decisions and architecture datas in a subscription of the advecture of the and chartecture data to a source optimal collation of these decisions and architecture data and the coll of the project constraints of architecture data and the coll of the project constraints of architecture data and the coll of the project logical communication between the achitecture data and the rest of the project logical communication between the achitecture data and the rest of the project logical communication between the achitecture data and the rest of the project logical communication between the achitecture data and the rest of the project logical communication between the achitecture data and the rest of the project logical communication between the achitecture data and the rest of the project logical communication between the achitecture data and the rest of the project logical communication between the achitecture data and the rest of the project logical communication between the achitecture data and the rest of the project logical communication b	s 5 0,	2	2 Lov	v Open	11/29/21. The Add reported progress in finaling details of the Two-Partial and CP dange requests (K1a) and vertel several key data with DES. They are also working to finalize some of the architecture components. However, it remains unchard if these changes are fully emplicitud detay in a strain of the transmission of the set of the set of the set of the set of the set of the set of the set of the set of	still not finalized by DHS. From e Arch perspective, we are building in Lifeary. Future Integration of the portals is still to be determined, buils not more complex than originally planned for data sharing. If change it made to Adobe, this would require a CR.	DHS continue to refine the final plan for the two portal vision. We expect that final decisions will likely be made during this reporting period and c communicated to the
16 Lock of deex understanding of the DDI mftrs approach may reduce effectiveness of all SOLC Processes.	Finding 12/17/2018 Configuration and Dev Issue	do Several DRI-Stateholders have commented that the SI Design, Development, and implementation (DOI) approach is unclear. While stateholders can observe SI activity and have participated in ones SI activities, they do not understand how it all fits together and some activity objectives ensuredue. The SI contexted a DO however not all tabeholders were present. Wild inon bocket any DB approach documentation or materials the could be referenced by stateholders who may have means of the avever seasion, by ever members of the team, or by other interested parties.	project activity objectives may reduce the effectiveness of JAR and JAD session as well as other BIS project activities and decisions.	FG economedio one or more of the following to maligne the indi, + Al provide a additional DOI appropriate horizon existing the standards who will amply to include on elements of the methodology, expectally new product owners Complete XIZ70201 All mate available the DOI approximation does not an other statistication to review availor of refine the invoked gen of mand The project statistication of the product owner productively, and hywring means to provide reaching a needed to axiour their effectiveness in their role.	r	3	3 Me	d Open	LT2/32/12. The Ad Ib as reported that their even testing approach has reduced DBIG testers in even if effort to support testing and transmitted the event leffort. DBIG has reported that some of their product owners (PO) may have been put in a position (by the AG) to provide final approval of defined to support testing and their should be considered and vetted by other DIS stakeholders/AME. This has left to testing AME are equivalent to the state of the testing of an event should be added to the state of the testing approxement of the testing and the CDE design process have been fully communicate to and understand the lead to contoversion or cooper relations. DJ/R21-1 Treamistic unclear whether this vetter lead with CDE design process have been fully communicated to and understand by the project testing and the SDE design process have been fully communicated to and understand by the project testing and the SDE design process have been fully communicated to and understand by the project testing and the SDE design process have been fully communicated to and understand by the project testing and the SDE design micess and the state state of the SDE design the SDE design been approach with a state of the state state of design the state of the state state of the state state of the state of design process and the state state of the state state of the state of design process and the state of the state state of the state of the state of design process and the state of the state state state whether this add the state of the state state of the state state state whether this add the state they will be provide the SDE to SDE and the Add SDE design process and and the state of design process and the SDE SDE design busines analysis (the shades). The Add state they will be provide the testing the testing state state and the state of the SDE species and while the state of the state of the stratestate state and the state of the	[ki] status meeting, Disk did not decine the offer and made suggestions. To my understanding turing offered to present the units offered to present the session. It was suggested by Disk that the pre-KID aspects the IE. Pro- sense participants in the ADs, a separate orientation before the participants.	9/9/21 849 - The most recent updates on the SDL have been added to SDL have been added to Confluence as promised. The testing lead and will also continue in her role as testing lead and will also continue to play an advisory role on the design of the system as she hax done throughout
	Findler 11/21/2018 Project Management		can suffer unplanned consequences in scope, schedule, cost, and quality	9/20/2021 - Despite not yet having a revised baseline storekule, continue monitors of analysing diversites that may knew impact to the critical part in a process 5/12/2021 - When the revised storekule is published the project team about erasts weekly particle of reporting actions biolity tables. The project team about the sectory particle of propring actions biolity tables of the project team about 2021/2021 - DHS and the ASI agree and publish the revised schedule based on the SDLC process adjustments. 9/20200 Recommendation - NV recommends the project team avaluate the estimating process of determine of Houses Should be made to reduce the number of late tasks and or conclust a nod cause analysis to project tables avaluate 0.1 Early start and the sectory adjustment to the project tables avaluate 0.1 Early start and tables to the project schedule to address the outstanding term/fusues identified by DHS, the ASI, and V include the Release 0.1 Early start and the project schedule to the project schedule to address the outstanding term/fusues identified by DHS, the ASI, and V include the Release 0.1 Early start and tables to the project schedule to address the outstanding term/fusues identified by DHS, the ASI, and V include the Release 0.1 Early Start ASI and W.C.C.Coss (21/2020) - Cased - Listabili the process for DHS and the ASI to mutually agree to the revised project schedule to address the outstanding term (scase 11/21/200) - King HUS, and HUS, and KS, 21/2020) - efficitive planned to performed in the interim schedule. Closed (21/21/200) - efficitive planned to performed in the Project Mangement Hand devective to the project the bady the process with the Project Mangement Hand devective with DHS and VM for revise and edit an needed, and start approval of the Pref. This will help collaborabley developed and implemented to meet the needs of the projects with the ASI completer advective to meet the needs of the project.	t e : V - s d d d	4	5 Нід	h Open	11/26/2012 - The project continues to demonstrate lare deliverables. For example, Cf Special indicator and CMM thereaved and engings the Relate 6.5 years unrelative metagration Testing on schedul As project deliverables silp, it may be an indication that the schedule itself in one traceously ending the interaction of popot states. The project tams is carrently resoluting the 10/26/2012 - Thes month the AS conducted two excisions to review the schedule questions rates by Obs and VV. It is apparent that many of authorizative and the schedule rate in the interactive schedule and the schedule of authorizative and the schedule rate in the interactive schedule and the schedule and the schedule rate in the wideling that resource requirements, and (2) historical project tams performance does not wideling that resource requirements, and (2) historical project tams performance and resource availability. S/D/22021 - The AS published a draft B-5 Project Schedule for DHS and VV. It wis and comments. The institu that the project tamic concerned about the deliverable are accised, and DHS approves the schedule. IVV remains concerned about the deliverable schedule for DHS to accept the schedule schedule is and the AS are currently evaluating SDC processes changes that may require further schedule updates. Additionally, the schedule SDC processes changes that may require further schedule updates. Additionally, the schedule SDC processes changes that may require further schedule updates. Additionally, the schedule SDC processes changes that may require further schedule updates. Additionally, the schedule SDC processes changes that may require further schedule updates. Additionally, the schedule further changes may be applied prior to DHS acceptance. S/32/2021 - The schedule schedule accounted to active schedule taken and schedule and microactive approves the schedule accounted with the review devided schedule and there are not material development. 4/30/2021 - The reviewed Project Schedule has not been publ	a a	7/20/21 APA - The ASI will continue to reflect based on feedback from tots on feedback from tots on feedback from tots work through the final change requests for the ATC which is nearing completion. Regarding the recommendiations: the recommendiations: the recommendiations: the recommendiations: the recommendiations: the recommendiation and principle on the ATC change request in July and change request in July and the month. Recommendiation 42: The team has reinstituted every other week a change request in the solution be taken on late work on a weekly basis.