Josh Green, M.D. GOVERNOR





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October 27, 2023

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

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

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

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

Sincerely,

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)



Hawaii Department of Human Services \$ystems Modernization Project

Final IV&V Status Report for Reporting Period: September 1 – 30, 2023

Submitted: October 18, 2023



Solutions that Matter

Overview

- Executive Summary
- <u>IV&V Findings and Recommendations</u>
- <u>IV&V Engagement Status</u>
- <u>Appendices</u>
 - <u>A IV&V Criticality Ratings</u>
 - <u>B Risk Identification Report</u>
 - <u>C Acronyms and Glossary</u>
 - <u>D Background Information</u>



Solutions that Matter

Executive Summary



Executive Summary



In addition to the 8-week delay of the BES Implementation reported last month, the ASI is proposing to remove the BES Self-Service Portal requirements and functionality from the Pilot implementation release and complete the development and testing after Go-Live. This is intended to allow the Project team to focus on developing the core BES functionality while Hawaii citizens can continue to use the current PAIS portal in production to complete an application for BES benefits. It is not yet determined how PAIS data will be integrated into BES during the Pilot and after Go-Live.

IV&V areas of focus include:

- The new process of the ASI delivering Sprint Demo recordings for DHS review has generated minimal feedback. It is unclear to IV&V if the lack of DHS feedback will have an impact on the BES solution, but DHS is adding more review staff to ensure that timely feedback is provided to the ASI.
- The ASI has an open action item to provide detailed list of functionality in Release 12 versus what will be deferred after Go-Live. This information is needed for OCM, Training, and implementation planning. The ASI plans to assign the Business Analysts to this activity when the Release 12 design phase is complete.
- Project testing remains a high-criticality area, with the ASI implementing improvements based on lessons learned. DHS
 and IV&V await the ASI's plan for how they intend to complete a full system test of all BES functionality prior to the start of
 Final Acceptance Testing.

In addition to the above, other aspects of the BES implementation include Service Level Management, Disaster Recovery, and Data Conversion as key areas that are in various stages of completion. Any further delays of functionality or key aspects may result in schedule impacts or changes to the planned business operations as the system is implemented.

Jul	Aug	Sep	Category	IV&V Observations
м	М	M	Project Management	The DHS contract Project Manager left the project as of the September month-end. DHS is working to provide the Assistant Project Manager with temporary assistance while project management positions are filled, but the date this will occur is unknown.

Executive Summary



Jul	Aug	Sep	Category	IV&V Observations
М	М	M	System Design	The DHS Subject Matter Experts (SMEs) have raised concerns regarding the ASI "pushing back" on suggested design changes. IV&V recognizes the need to control scope, but if it is determined the changes are needed for the core system this could lead to rework later in the development process.
М	М	М	Configuration and Development	With DHS approving items to be tracked by configuration management, IV&V awaits the final list of configuration items to review for comprehensiveness.
М	м	M	Integration and Interface Management	A key decision on the DoTAX interface was made by the Project to focus on designing a new interface rather than pursuing the legacy interface as a backup plan. DHS's concerns regarding ASI updates to Functional Design Documents were also addressed.
Н	н	Н	Testing	The ASI's formal ADA testing started ahead of schedule (August 1 st). To address DHS' numerous testing concerns, the ASI is implementing several improvements to the testing process.
М	M	M	Security and Privacy	The primary focus for the Security and Privacy team shifted from finalizing the System Security Plan (SSP) to completing the design for the Secure Enclave, which is needed for storing and handling regulated data (including Federal Tax Information, or FTI). Having this design in place is needed to finalize the SSP.

As of the September 2023 reporting period, PCG is tracking 10 open findings (6 risks, 4 issues) and has retired a total of 68 findings. Of the 10 open findings, 1 are High, 6 are Medium, and 3 are Low.



The following figure provides a breakdown of the 79 IV&V findings (positive, risks, issues, concerns) by status (open, retired).





Findings Retired During the Reporting Period

#	Finding	Category
	None	



Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
	Preliminary Concern – The current approach to UAT may not be complete, which increases the likelihood of missing deadlines.	
84	The Project completed R11.1 UAT, however, some UAT processes still have not been well-defined. For example, there was confusion if UAT testers need to review existing defects, including INT/SIT defects, before creating a new defect to avoid duplicates. The Project developed a lessons-learned report and identified key areas to improve such as how to manage defects and how to communicate scope effectively. IV&V will continue to monitor the ASI efforts toward the recommendations of this finding.	Testing

Recommendations	
Conduct comprehensive Final User Acceptance Testing (FAT)planning	Not Started
 Conduct lessons learned session to incorporate into FAT, including updates of all processes, procedures, roles and responsibilities 	Completed
Train testing resources early before FAT begins and walk through end-to-end scenarios.	Not Started
Develop contingency plans if Release 11.1 UAT does not proceed as planned.	Completed



Findings Opened During the Reporting Period

#	Finding	Category
	None	

Project Management

#	Key Findings	Criticality Rating
29	Issue – Uncertainty and/or a lack of communication around long-term architecture decisions could impact the project budget, schedule, system design, and planning decisions.	
	The ASI updated and delivered four chapters of the BI-12 System Architecture Deliverable, currently under DHS/IV&V review. If DHS agrees to postpone implementation of the BES Portal functionality until after Go Live, further changes may be necessary to the overall architecture to include the planned architecture for the interfaces and PAIS application (PAIS is the current solution for Hawaii citizens to complete an application for BES benefits). The four chapters currently under review are:	L
	BI-12 Audit System Chapter	
	BI-12 BES Shared Services Chapter	
	BI-12 Self-Service Portal Chapter	
	BI-12 Physical Architecture Chapter	

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

Project Management

#	Key Findings	Criticality Rating
	Issue – A BES Project schedule based on inaccurate estimations diminishes effective planning and resource management, which could result in late deliverables, cost increases, and a late go-live.	
74	The ASI re-baselined both the Primary and DDI BES Implementation schedules, adding 8 weeks to release 0.12 and addressing DHS and IV&V's concerns that the prior schedules were underestimating the effort required to complete the remainder of the Project. As the ASI requested to shift the Portal functionality after statewide implementation, IV&V remains concerned other requirements may also be delayed. This may cause downstream impacts on UAT planning and execution, Training, Organizational Change Management, and Operational readiness to plan for any required workarounds and manual processes.	M

Recommendations	Progress
Monitor, evaluate and revise scheduling estimates for accuracy.	In Process
 ASI plan and execute Epic development so that Epic demos can occur earlier in the release schedule and allow time for possible revisions. 	Not Started
 ASI hosts a weekly meeting with DHS and IV&V to review all changes to the project schedules (Primary and DDI). 	In Process
 ASI provide details on how Velocity measures were used to develop estimations for development effort in new version of DDI schedule 	In Process



Integration and Interface Management

#	Key Findings	Criticality Rating
	Risk – The lack of early planning and coordination with interface partners may result in schedule delays.	
63	The Memorandums of Agreement and the Memorandums of Understanding (MOAs and MOUs) are being reviewed. Seven of twenty-eight MOAs, including the DLIR interface, have expired or will expire by the end of 2024. DHS/ASI has yet to provide a target date for resolving the expiring MOAs and MOUs. IV&V will continue to monitor MOA and MOU items.	м
	The DHS concern that the ASI was changing Functional Design Documents (FDDs) without DHS knowledge has been reviewed and resolved through meetings with DHS and the ASI.	
	The review and completion of the Interface Control Documents (ICDs) are in progress, with 4 of 25 ICDs outstanding. The progress of the ICDs and Interface Epics will continue to be monitored by IV&V.	

Recommendations	Progress
Complete all MOAs and obtain approval.	In process
Confirm testing dates with interface partners in writing.	In process
 Complete early proof of concept interfaces to avoid unexpected delays due to external organization miscommunications or their own internal delays in assisting the BES project. 	Not started



Configuration and Development

#	Key Findings	Criticality Rating
70	Risk – Insufficient configuration management could lead to development confusion and reduce the effectiveness of defect resolution.The ASI gained DHS' approval on the items that will be tracked and monitored as part of configuration management. IV&V requested the list last month and is waiting on the ASI to respond.	L

R	Recommendations	
•	ASI adhere to plans for configuration management as documented in BI-6 DDI Plan, Section 5.2 and clarify details and/or any changes with DHS.	In process
•	ASI validate plans for configuration management with DHS and agree on a meaningful set of configuration items or settings they will track.	In process
•	DHS and ASI work to clarify/solidify plans for the potential use of configuration management tools and DHS work to fund and procure a CM tool, as required, to avoid any negative impacts to the project.	In process



Configuration and Development

#	Key Findings	Criticality Rating
	Risk – Development delays could negatively impact the project schedule and delay go-live. Though the Project has decided to focus on core functionality for Go-Live, DHS SMEs remain concerned	
80	that the ASI is pushing back on some important design refinements. They have noted that the ASI decision to record demos instead of having live collaboration sessions with SMEs could hinder good design and slow their design feedback. If critical refinements are discovered late into the development lifecycle, it may necessitate last-minute development and could potentially result in schedule delays. Alternatively, if the project elects to go live with a system that falls short of user expectations, user buy-in may prove to be a challenge.	M

Recommendations	Progress
• DHS request the ASI strategically add the right project team resources to effectively increase velocity. Note that adding additional junior resources may not be as effective as staffing additional expert-level development, analysis, and other resources that can lead and mentor junior resources.	In process
 ASI effectively track and regularly provide DHS (potentially via the weekly DDI status meeting) with an accurate velocity (e.g., story points per day/week/month) and assure that the current velocity is accurately and consistently reflected in the project schedule. 	In process
 The ASI should provide DHS with the time needed to effectively evaluate the software demonstrations (demos) and elicit productive design discussions with DHS attendees during each demo. 	In process
 ASI regularly reports estimated story points for the total remaining project work to reach go-live and presents a dynamic burn-down chart to track the progress. 	Not started

System Design

#	Key Findings	Criticality Rating
	Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts.	
73	The ASI has experienced turnover of their Enterprise Architect position; this does not appear to have had a material impact on the overall infrastructure build. The ASI continues to make progress in the build-out of their infrastructure and is confident that the automation they've implemented will simplify many maintenance tasks given that, they remain confident they will be able to meet infrastructure milestones without hindering development. The ASI has also stated that maintaining the system post-go-live will not require excessive effort and that achieving the SLAs will be possible. IV&V remains concerned that some planned elements of the infrastructure have yet to be thoroughly architected, documented, and/or conceptually tested via proof of concept (e.g., the secure enclave and disaster recovery environment).	

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

System Design

#	Key Findings	Criticality Rating
	Issue – Limited collaboration between the ASI and DHS in the design process could lead to BES and BES-SSP usability issues and functionality gaps in the applications, and not meeting critical business needs for DHS and State clients.	
86	The DHS PMO reported that DHS SMEs have provided minimal feedback to the ASI on the four recorded Sprint demos this month. This supports IV&V's concern that the new process will reduce collaboration to confirm that designs are in alignment with DHS expectations. IV&V added a recommendation that the ASI and DHS re-evaluate the effectiveness of this new process.	M

Recommendations		Progress
•	Include a wide enough audience in all design and demo sessions to validate FNS and DHS functional and technical requirements and system usability.	In Process
•	Perform Sprint and Epic demos in alignment with development sprint completion (demo functionality/requirements as they are developed) to get early feedback on work products.	Not Started
•	Perform comprehensive (demo all requirements) review during Epic demos, not just the items that were added/updated, allowing DHS to provide early feedback on possible issues/gaps that might not be apparent when focusing on specific functionality.	Not Started
•	ASI and DHS re-evaluate the effectiveness of the recorded Sprint review process to ensure that designs align with DHS expectations.	Not Started

Testing

#	Key Findings	Criticality Rating
67	Risk - The Americans With Disabilities Act (ADA) Section 508 compliance tool has not been installed for the Project, which may cause significant rework. Formal ADA testing began ahead of schedule. The ASI reports continued use of UsableNet and is addressing issues the tool is identifying. The ASI created and shared a high-level ADA testing approach and implemented the process. It is too early to determine if adopting and using the tool after a significant portion of the system was developed will reveal numerous ADA defects that will impact project timelines or resources.	М

Recommendations	
The ADA tool meets contractual and project requirements.	In process
The ASI communicates a plan for ADA test execution.	In process
 The ASI communicates how the tool will be used to report compliance and non-compliance and how non- compliance will be addressed/corrected 	In process
The ASI provides DHS/IV&V reports from the ADA tool execution and explain how to interpret the results.	Not started

Testing

#	Key Findings	Criticality Rating
	Issue – Gaps in test coverage and slower-than-expected progress in testing may result in schedule delays if subsequent test phases uncover a higher volume of defects and user feedback than initially anticipated.	
83	Gaps (business requirements/functionality that may not have been tested sufficiently) in the Unit, Integration (INT), and System Integration Testing (SIT) phases continue to result in numerous defects found during UAT Release 11.1. To improve testing for Release 12, the ASI is implementing peer review processes to review test cases before tests are executed; is updating their testing dashboard to monitor testing progress more accurately; re-organized the test team to have dedicated Functional and Non- Functional test leads; and updating the test repository to accurately align with the test counts for each use case. Additionally, DHS plans to closely monitor that the ASI is meeting SIT entry criteria prior to starting SIT, which includes DHS reviewing and approving the ASI proposed SIT test cases.	Н
Decommendations		Drogrado

R	Recommendations	
•	Monitor INT/SIT closely for both breadth and depth of testing to ensure the system is adequately tested.	In process
•	The project team reviews the SIT exit criteria and revises them as needed to ensure UAT/FAT begins with the best system possible.	In process
•	ASI should determine the root cause of the failure to identify simple defects in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering UAT/FAT	In process

Security and Privacy

#	Key Findings	Criticality Rating			
82	Risk – The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan (SSP).				
	At the beginning of September, the DHS Security SME completed draft implementation statements for all IRS-specific controls, and the base list of draft control implementation statements was also completed. The bulk of the month focused on designing the Secure Enclave. The Secure Enclave is an environment used to receive, store, and access regulated data, such as Federal Tax Information (FTI). The ASI has presented a draft diagram of the Secure Enclave.				
	The ASI and DHS had various workshops with Google near the end of the month and allowed the team to present their thoughts on the design and implementation of BES, including the secure enclave, to get feedback from Google SMEs. At this point, the Secure Enclave is a higher priority than the System Security Plan, as the design and implementation of the Secure Enclave will impact the implementation statements in the SSP.				

Recommendations	Progress
Determine when the infrastructure design baseline will be completed.	In process
Determine when documentation will be created, updated, and available for the SSP authors.	In process
 Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. 	In process
 Perform a full review of all SSP controls for content and accuracy that have been written as drafts prior to December 15th, 2023. This will allow the SSP authors to update controls with changes from Design through Implementation. 	Not Started







IV&V Engagement Status

IV&V Engagement Area	Jul	Aug	Sep	Comments
IV&V Budget				
IV&V Schedule				
IV&V Deliverables				PCG submitted the final August IV&V Monthly Status Report.
IV&V Staffing				
IV&V Scope				

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

IV&V Activities



- IV&V activities in the September reporting period:
 - Completed August Monthly Status Report
 - Ongoing Review the BES Project Artifacts and Deliverables
 - Ongoing Attend BES Project meetings, (see <u>Additional Inputs</u> pages for details)
 - Reviewed available ASI contracts and contract amendments documentation
- Planned IV&V activities for the October reporting period:
 - Ongoing Observe BES Design and Development sessions as scheduled
 - Ongoing Observe Bi-Weekly Project Status meetings
 - Ongoing Observe Weekly Architecture meetings
 - Ongoing Observe Weekly Security meetings
 - Ongoing Monthly IV&V findings meetings with the ASI
 - Ongoing Monthly IV&V Draft Report Review with DHS, ETS and ASI
 - Ongoing Participate in Bi-Weekly DHS and IV&V Touch Base meetings
 - Ongoing Review BES artifacts and deliverables

Deliverables Reviewed



Deliverable Name	Deliverable Date	Version
BI-5 Project Schedule - BES 2023 Primary	09/13/2023 09/27/2023	N/A
BI-5 Project Schedule - BES 2023 DDI	09/13/2023 09/27/2023	N/A
BI-10 Functional and System Design Document Template Updates	9/21/2023	N/A
BI-12 Audit System Chapter	9/25/2023	N/A
BI-12 BES Shared Services Chapter	9/25/2023	N/A
BI-12 Self-Service Portal Chapter	9/25/2023	N/A
BI-12 Physical Architecture Chapter	9/25/2023	N/A

Additional Inputs – Artifacts



Artifact Name	Artifact Date	Version
BES 2023 Design Kanban board	N/A	N/A
R0.11 Epic Assignment	N/A	N/A
FNS Handbook 901	01/2020	V2.4
NIST Special Publication 800-53 Security and Privacy Controls for Information Systems and Organizations	12/20/2020	Rev.5
SNAP_System_Integrity_Review_Tool	Sept 2022	N/A
Interface Dashboard – Confluence page	N/A	N/A
BES 2023 Implementation Planning – Confluence page	N/A	N/A
R0.12 Epic Assignment	N/A	N/A
UAT Testing Dashboard	N/A	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. IV&V Team Meeting 9/5/2023, 9/7/2023, 9/11/2023, 9/14/2023, 9/18/2023, 9/25/2023, 9/28/2023
- 2. IV&V September 2023 Pre-Draft MSR Findings Review 9/6/2023
- 3. HI DHS BES August Draft IV&V Report Review 9/15/2023
- 4. Bi-Weekly DHS and IV&V Touch Base 9/5/2023, 9/18/2023
- 5. Weekly BES Infrastructure meeting 9/8/2023, 9/15/2023, 9/22/2023
- 6. DHS/IV&V Check-in 9/14/2023, 9/28/2023
- 7. Bi-Weekly Client BES 2023 Project Status Meeting 9/6/2023, 9/20/2023
- 8. Security Touchpoint 9/6/2023, 9/13/2023, 9/20/2023, 9/27/2023
- 9. R0.11.1 Go/No Go (SIT exit criteria) 9/5/2023
- 10. R0.11.1 UAT Huddle 9/6/2023, 9/7/2023, 9/8/2023, 9/18/2023, 9/19/2023, 9/20/2023, 9/21/2023, 9/22/2023
- 11. R0.11.1 UAT Triage 9/5/2023, 9/6/2023, 9/7/2-23, 9/8/2023, 9/18/2023, 9/19/2023, 9/20/2023, 9/21/2023
- 12. R0.11.1 UAT Readiness Checkpoint 9/15/2023
- 13. PMO End of Day Huddle 9/12/2023, 9/14/2023, 9/26/2023, 9/28/2023
- 14. (External) Weekly Interfaces Touchpoint 9/11/2023
- 15. (External Pre-design) CMM Interface FDD Cont'd discussion- 9/8/2023, 9/15/2023, 9/22/2023, 9/28/2023
- 16. (External) UI Standards Monthly Review 9/6/2023
- 17. (External) Readiness Working Group Meeting-9/12/2023, 9/19/2023, 9/26/2023
- 18. (External) Bi-Weekly Client BES 2023 Schedule Review/Status 9/13/2023, 9/27/2023
- 19. (External) BES System Security Plan Controls 9/5/2023, 9/12/2023
- 20. (External) Bi-weekly BES CCB Meeting 9/13/2023, 9/27/2023
- 21. Pre-design EPIC 237: Federal Collection Activity (Fed Tax Offset revisit) 9/19/2023
- 22. (External Client Design) Epic 208 Mass Change Design Session 9/21/2023





Appendices



Appendix A – IV&V Criticality Ratings

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

Appendix B – Findings Log



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

Appendix C – Acronyms and Glossary



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

Appendix C – Acronyms and Glossary

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

Appendix C – Acronyms and Glossary



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

Appendix D – Background Information



Systems Modernization Project

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

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

Systems Modernization IV&V Project

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

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

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

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

Appendix D – Background Information



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

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

PCG's Eclipse IV&V® Technical Assessment Methodology

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

IV&V Assessment Categories for the BES Project

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

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

Ending Slide



Solutions that Matter

HIDHS Monthly IV Status Report Final - September 2023

Table Product Type 80 Lineline of collaboration between the AS1 and Desis in the doing roots could add add fractionally appear in the applications, and increasing originations and source of the transmission of and state clients. Molina Mar Products Increasing originations and the transmission of and state clients. Molina Mar Products Increasing originations and the transmission of and state clients.	teording	challenges with the user interface, missing functionality, and basic screen layout issues that would not be expected in a modern application. Based or	Synthese A agridinate amount of money and this insource time have been invested in the Silo solution, with executions that there are pathent will at information provide additional capabilities, pergrep rehared care interface, and exact improved usability more providing the according instruments in the solution fold shorts informations in the many terching in the Sita disaption; lack and confidence in the solution providing the according in the solution fold shorts and the vector of the solution of the solution of the solution and the solution is the solution of the solution of the solution of the solution and the solution of the solution of the solution of the solution of the solution and the state.	FNS and DHS functional and technical requirements and system usability. Perform Sprint and Epic demos in alignment with development sprint completion (demo functionality/requirements as they are developed) to g	 et	ct Probability	Analyst Priority 2 Med	Finding Status Open	Ratic lipide \$7/1/2021. The DHS MMO reported that DHS MMS have provided minimal debacks is the 45 cm bits arrowshell approximation and the month. The deback is the 45 cm bits are obtained and the deback is a most in. The confirm that designs are in alignment with DHS executions. If WA added memory and the design are in alignment with DHS executions. The WA added memory and the deback is provided in the longer conduct in generation be- mere process. W12/2021. The 54 bits with deminister of the deback and the feedback process back to the ASI is undermined. The decision to recercli Spont demon which longer is reasonable to a indication and with reflexible and contradicts alignment blockbacks. We encourages ABI and DHS is conducted to the final single reasonable to a indication. alignment on design that impact development, testing and final isolation.	the items that I clarified with IV&V, that there are feedback given, no feedback means design is ok. I rec'd an emai back from Joe F. that IV&V	
84 The current UAT agreesia may not be Tax. Rep Concern complete, which correspenses the Methodo of missing deadlines.	6/28/2023 Testing	the highest appears unprepared for felases 11 UAT, For example, Rev tetting processing characterized and the second secon	without a defined and developed ULM approximated recording plan. Here in a patiential risk of investigation of the second	plannig. Train testing reources and y before AT begins and with three mode end security. OUMPHTID: conductions leand sections in incorporate into FAT, including updates of all processes, proceedings and espendialities (Patiziana). The section of the section of the section UAT been net proceed as planetet. (f)(10003)	a 11	3	1 Low	Open	s102/02.1 The Pages completed 1111 UNT, however, sense UAT processes all laws on the well defined. The complex there are confusion 1014 the testers needed to review earling defects, including INT/SI defineds, biefer configure are wellefit to and deficients. The Pages and Contract Testers and the Configure and the Configure and the all boost to manage deficits and have to communicate scope effectively. SVM and contracts and more than All definits taward the configure and have to manage deficits and have to communicate scope effectively. SVM and contracts and more than All definits taward the configure test of parts for the trans All configure and the All definits taward the configure BLS implementation default, the transmission of the All definits taward the configure conduct transmission of the All definits taward the Configure and the conduct transmission of the All definits taward the Configure and the transmission of the All definits taward the Configure and the All definition of the All definits taward the All definition of the conduct transmission of the All definits taward the All definition of the conduct transmission of the Configure and the All definition of the conduct transmission of the All definition of the Configure informal finites 111 UAT all how testings. The Angelse conducts that all used the constraints and configure and the configure and the discussing testing processes and procedures, defined the discussing testing processes and procedures, defined the constraints have the testing to All during the entire splicitication the con- tragent taward the testing the All during the entire splicitication the con- tragent taward the testing the All during the entire splicitication the total and during the testing the constraints and the entire splicitication during the testing during the constraint the entire splicitication during the total and during the all during the all during the entire splicitication during the testing during the constraint the testing the All during the antert contraint during		
B Gapin In tot coverga and stowerham expected programs in testing may real in scholde delay. If subarquerit test phase whether and the subarquerit test phase scholde delay. If subarquerit test phase real scholder delay. If subar	62/2023 Testing	program of relating might be lagging. Concerning tearing coverage, it appears that not all ejock and cards in RT law associated into classes of an electronic structure of the second structure of the second structure unreacted, and not all defects have been resided as the project commones. System Integration Testing (17). The Ath Ata plane has complete the INT east criteria by June 16, 2023, about 2 weeks after ST bagins.	isomönye direkts ann ju sud lo reflexive istöng, as it is nove efficient and cost effektive barks issuss daruf pred annu ytesting stage. The six sixe prepares or incomplete isteries (in the sair) stage, it can result in ensemble and processing stage is the sair stage, it can result in the same stage is the same stage of the same stage is the than anticipated progress throughout the project Herocker(necessa the final encountering significant dark, edition on, the introduction defauet into a the production environment darug de float listing stage, toosen as the all Acceptance Testing (PA).	simple defects in INT and SIT and implement effective improvement processes to confirm early testing is adequate before entering UAT/FAT. DHS and ASI monitor INT/SIT closely for both breadth and depth of testing ensure the system is adequately tested The Project team reviews the S2 e out criteria and reviews them as needed to ensure UAT/FAT begins with it	- to IT	4	4 High	Open	5/12/22: Gap Business requirement/interchalling that may not here been tested sufficiently in the ULU (teggetor) (TII), and System taggetors for Earling GTT) phases contrained to result in numerous defect integration factors (GTT) phases contrained to result in numerous defect integration factors (GTT) phases contrained to result in numerous defect integration factors (GTT) phases contrained to result in the second and numerous defection of the GTT and the OH and the GTT and the GTT and the GTT and the GTT and the GTT and System factors (GTT) and the GTT and the GTT and the GTT and System factors (GTT) and the GTT and the GTT and the GTT and System factors (GTT) and the GTT and the GTT and System factors (GTT) and the GTT and System factors (GTT) and System factors (GTT) and the GTT and System factors (GTT) and System factors (GTT) an		10/11/2023 We also communicated to yous all that we have neve organized our test team to have dedicated functional and two-functional and two-functional and two-functional and two-functional and two-functional and two-functional decision for 80.11 received by OLS1 received by OLS1 mentioned or despite the defects being referenced.
Ef The Lock of storbitcal documentation may keen basis. Fording - load to incorrect informeriation statements Riak or deby the system Security Plan	4/27/2033 Sociely and Phacy	decisions on what tools support the SSP controls are still being decided on Implementation statements are currently being written from the perspectiv		ft Progress - Determine when documentation will be created, updated, and SP available for the SSP authors In Progress - Collaborate and communic, with SSP authors about when reliable and correct documentation will be available In Progress - Perform a full review of all SSP controls for	2023 when the full ate SSP is scheduled for completion and approval prior to sharing with	3	3 Med	Open	oring optics, but the optical as are not displayed or used approprix in comparised on hypothesis assessment of displayed or used approprix the the base in of ordin control implementation statements was also compared of the hypothesis assessment of the same fractional ording the Secure Tachova and appropriate the term of the control forced ordination of the same trans- are also and the same transmission of the same transmission workshop, with Google near the ord the months and allowed the lateration workshop, with Google near the ord the months and allowed the lateration workshop, with Google near the ord the months and allowed the lateration because relaxed as a transmission of the lateration and allowed the lateration because relaxed as the distribution of the lateration sectors and the same transmission of the lateration sectors and the same transmission of the lateration sectors and the lateration of the lateration the lateration transmission of the lateration transmission and allowed the lateration sectors and the lateration and allowed the lateration sectors and the lateration and allowed the lateration sectors and the lateration of the lateration sectors and allowed the lateration transmission in the lateration and allowed the lateration transmission in the lateration of the lateration the lateration transmission in advectory and the lateration the sector and the lateration and allowed the lateration transmission and transmission advectories and and allowed to advect to another the sector that and a sector the term transmission and transmission advectories and transmission transmission and transmission advectories and transmission the development of the theory advectories transmission the other the development of the theory advectories transmission the theory theory advectories and transmission advecto		

HIDHS Monthly IV Status Report Final - September 2023

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B) Thereforement delays could regarisely impact Force, Michael Fre, the project conclude and delay go live.		Development	At the growthedy respected development schedules that be been solved at the hybric best under tables a solver and/or market the respected development which, "Previewsly, the development team was challenged with accurative strateging development table (and of fort (a, s, there is a solver a solver transport of the solver and of the solver activate the tar accurately reflects validatis, members (see Friending 27%). The All continuous table challenged with finding qualified resources in a timely manner.	when GSD quarket exactlines as weldery but enables them to mere transmit microstructures, technical quarking may late to address systems, parks ratio. Failurits tractices a level of accuracy in wellmaining development table, could have a participate could be that i flueral and annual late. Thereads, the annual systems are set of the strategiest and tractices and the could be that the set of the strategiest and the strategiest and system generatives. The strategiest and the strategiest and the strategiest and table late that the strategiest and the strategiest and system generatives and strategiest and the strategiest and the strategiest and strategiest and the strategiest and the strategiest and the strategiest and strategiest and the strategiest and the strategiest and the strategiest and strategiest and the strategiest and the strategiest and the strategiest and strategiest and the strategiest and the strategiest and the strategiest and strategiest and the strategiest and the strategiest and the strategiest and strategiest and the strategiest and the strategiest and the strategiest and strategiest and the strategiest and the strategiest and the strategiest and strategiest and the strategiest and the strategiest and the strategiest and strategiest and the strategiest and the strategiest and the strategiest and strategiest and the strategiest a	Dris with the time needed to effectively evaluate the software downstrations (integrated) and fort production sending discussions with the momentations (integrated) and for production sending and the time field and the software of the software of present set as even the device of the software of the programs. COMPARE TO COMP - All reviews the devicement process and lettifies; and mitigates the challenges preventing them from incorporating Sig-discover cubicies in the project schedule, (t)/20/23 - 4.5 km in not be doing this, with DHS approval)	e 5. 	3	3 Med	Open	The Contrast Static base experiance concerns that the 5d Supervise bite entiting concerns in reduce to increases their development velocity and meet development millionscen. Through the project has decred to minimum scope ency. Static remain concerns that the Ad Supervise Static Conservation record denoises instead of abaring the collaboration scenarios with the Advance of the Advance Static Static Conservation (Static Conserva- tion) and the advance of the collaboration scenarios with MSs could hold rego do diagra and do the development life length. It may necessarily a static scenarios and collaboration scenarios with MSs could hold rego do diagra and the collaboration scenarios with MSs could hold rego do diagra and the collaboration scenarios with MSs could hold rego do diagra and the collaboration scenarios with MSs could hold rego do diagra and the collaboration scenarios with MSs could hold rego do diagra and the collaboration scenarios with MSs could hold rego do diagra and the collaboration scenarios with the MSs could hold rego do diagra and the collaboration scenarios with the MSs could hold rego do diagra and the collaboration scenarios with the MSS could hold rego do diagra and the collaboration scenarios with the MSS could hold rego do diagra and the collaboration scenarios with the MSS could hold rego do diagra and the collaboration scenarios and the problem to the scenario scenario france the the scenarios could re- me planarios millensity results that MSS could diagra and the formation and the formation and the formation and the scenarios could be and hold the MSS could difference regarding functionality result in the MSS could difference regarding functionality result in the topic calcional to the and diagra difference regarding the colles and the scenarios could be the do diagram and the formation results and the MSS could difference regarding the colles and the formation and thold and diagram and the formation and the fo		
17.4 BIS Poject schedule based on inaccurate Moline, Bear Free entimation dominishes effects pointing have and resource management, such accurate and a late go-live.	2	Management	Dis and the AIX have true of multiple simes to reveal the schedule with results that have only defined improvement. Concerns with the structure, estimating practices, and ability to manage to the schedule point. The resource management and official path analysis, all of which were addressed and closed.	If estimates for project schedule activities an end accounts, this can lead to constant schedule activities, manares note long activities and activities maked activities, and general fruitaristion which can lead to schedule addies, for early schedul, sope charge, and helps taxes.	pian and execute tipic development to that tipic demos can excur earlier in the results school and earlier of the pice demos can be concurrently development effort in new version of 20 schedule COMPLTE DES and the All agres to a reside to the schedule against their longer deferences can be managed. (20)(27)(22): completel All biots ta weakly memory and the SL and SL agres to a reside to the schedule against their longer deferences can be also and the schedule against their longer deferences can be the pipele schedule, such as bent man and the schedule and the schedule against the schedule against their longer deferences can be the pipele schedule, such as bent and tipe derem, to the weak preserves that to algoed development task schedules and the schedule and the activation to schedule development task schedules and the schedule activation to schedule development task schedules and the schedule (2)(2)(2)(2)) are schedules and schedules and the schedule and the schedules and the respect (1)(2)(2)(2) and the schedule and the schedule and the the respect (1)(2)(2)(2) and the schedules and the schedule duration of the respect (1)(2)(2)(2) and the schedules and the schedule and the schedule and the the respect (1)(2)(2)(2) and the schedules and the schedule and the		4	2 Med	Open	9 (1)/(2):3. The Airle baselines both the Primary and CO BES implementation schedules, definite when the anomaly and Co BES implementation schedules, definite when the anomaly the schedules of a schedules of the anomaly schedules are automative the primary schedules and the schedules are automative the schedules of the schedules and schedules and schedules are regardles to schedules and schedules and schedules. This may can also schedules and schedules and schedules are schedules are regardles to schedules and processes. #11/(2):1. The 3-west implementation of deprivation for a flashing and processes. #11/(2):1. The 3-west implementation of deprivation for a flashing and processes. #11/(2):1. The 3-west implementation of deprivation for a flashing and processes. #11/(2):1. The 3-west implementation of deprivation for reducing developments and results of them in the schedule publicitation of the schedules and the anomaly and the schedules and an advection of the schedules and another than the schedule and an advection of the schedules and schedules and an advection of the schedules are schedules. Additionality, MV is constrained and developed by ESI and IV. Additionality, MV is constrained and developed on expression of the schedules and schedules and schedules are an advection of the baseline constrained schedules that result are already advection of the baseline constrained schedules that result are already advection of the baseline and the schedules and advection of the schedules and and advection of the baseline and advection and advection and advection of the baseline and advection the schedule that result are already advection of the baseline and advection and advection and advection of the baseline and advection and advection and advection of the baseline and advection and advection and advection of the baseline and advection and advection and advection and advection of the baseline advection and advection and advection advection of the baseline advection advection advection advection and advection advect		10/11/2023 Linited estimating and catual performances to an a support to an a support
72 The planed BS infrastructure complex. You, Motal Fine which could effect to implement and lead to schedul/cot impact.	κ.		Current All Instancture plans include a significant number of sophisticatic composition and way a comparement that will name up instance, the Project Team has yet to final an components that will make up and implement the planed complex environment remain unclear.	If the level of effort to implement and munup the completions of the BE inframature in the oracinary located for and multitle by the AL, they project could be melt with unexpected cases and subschedule datases. Deturn inframature is not accurately accurated from and do such that the burget could be melt with unexpected cases and subschedule datases. Deturn inframature and a superstanding and the superstanding of the superstanding maintenance and operations challingers as system changes can be the inframework of the superstanding of the superstanding of the superstanding of the maintenance and operations challingers as system changes can be the inframework of the superstanding of the superstanding of the superstanding of the superstanding is not superstanding of the superstanding of the superstanding of the comparent (i.e., final), Geogle Cable a person the just case cases Geogle Cable field to define a land to project discupsion of the superstanding points. In the project recently experiment as a superstanding of the bind with an another comparent (i.e., final), Geogle Cable a person the just case field to filture in a constant points in the project (including point gale to person the superstanding of the superstanding points in the project (including point gale to person the superstanding points in the project (including point gale to person the superstanding entities the noise and the person the superstanding of the superstanding entities the noise and also person the superstanding of the superstanding entities the noise and also person the superstanding of the superstanding entities the noise and also person the superstanding of the superstanding entities the noise and also person the superstanding of the superstanding entities the noise and also person the superstanding of the superstanding entities the noise and the person the superstanding of the superstanding entities the noise and the person the superstanding of the superstanding of the superstanding entities the superstanding of the superstanding of th	updates an applied. • The project team work to establish strong geoma over the utilizations at materians of the maximum strong strong end of the strong strong strong strong strong strong strong strong concepts to assure of natarchiter components stork as expected. • Asi anatorian a detailed strong for Borgs implementation tasks to add unexpected delay: that could delay project milestones and the critical path		2	2 Low		9/21/23 - The ADIs as appreced humow of their Ctarprise Architec position; this does not appear to have bad a material impact on the overall infrastructure balls. The AGI continues the male pargers is in the Jaude and infrastructure balls. The AGI continues the male pargers is in the under the AGI continues the male pargers in the Jaude and infrastructure balls. The AGI continues the male material parge parket with a simple many materiance categories and parge parket with a simple many materiance categories and parge parket with a simple many materiance categories and parge parket with a simple many materiance categories and and instructures have any to the Oncoging and the AGI and and conceptuality tested via pool of concept (e.g., the sacres enclose and dataset recovery enhances). J J J J J J : The AGI and and and the bad of Chancels, their complex grant tables and the AGI materian and the AGI and and and the AGI and and and the Instructures the visit on definition of the parket of the AGI and the AGI and chancels, their complex grant park and the AGI and chancels, their complex grant park and the AGI and the AGI and the AGI and the AGI and the AGI materian as candidate and feature wave greateful to and grant and and AGI and and and the AGI and the AGI and and the AGI and the AGI and the AGI and the AGI and the AGI and and the AGI and the AGI and the AGI and and and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI AND and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and the AGI and		10/11/2023 Pasa reference finding BL Security and Prace with the security of the security and prace with the security of the security security finding and Security finding and Security finding and Security Security Security finding and Security S
10 fundricent configuration management from, fundrial from coale lead to evolvegoment conclusion and management reduce the effectiveness of defect resolution	ding - 8/23/	Development	The BH EDDRING Debundles's Section 2.3 exhibitions the framework for the Configuration Management Plan, however, internation scalar of additional programs has been made toward enablishing of the process and generations, programs has been made toward enablishing of the process and generations, programs and the process and the process and the process and programs and the process and the process and the process and requirements or decisions that could impact OA. The project currently relie on Github for tracking of some configuration.	ensures the BES is understood and works correctly. The BES solution includes tools that may provide a level of automation for Configuration Management that may reduce errors and should provide the project team	management tools. COMPLETED • Identify the DHS POC for the	5. 1 15	2	2 Low	Open	perceptions in the weakly project Architecture meetings. Therefore, INV 2012 The Society of the Comparison of the Society of Society (Society Society		20(17202) register of the second and its water growth and its water growth and its respond of Rease set the following list management sens which service for the second compared second second compared second second compared second second second second second compared second s

HIDHS Monthly IV Status Report Final - September 2023

ID Title Reporter	Finding Type	Identified Date Category	Observation	Significance	Recommendation	Event Horizon Ir	npact Probabi	Analyst lity Priority	Finding Status	Status Update	Client Comments	Vendor Comments
67 The Americans With Dualblies, Act (ADA) Tan, Pan Section 308 complement tool has more than installed for the Project, which may cause significant revols.	Finding - Rok	7/12/2011 Testing	successfully completed the ASI confirmed that there is currently no working tool installed and that Section 508 compliance testing has not been performed. This risk has been discussed with the ASI over the past several months, but there have been evidence of results to-date. The ASI did state	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 and federal policies, laws, regulations, and Standards,	the tool will be used to report comparison and non-complare as a how no complance will be added ordered. The Add provides the (AVM very report, frum the Add tool execution and explain how to interpret the result.	ow and prior to final ion solution	3	3 Med	Open	9/29/2012 - Jormani ADA testing began abased of kcheduka tils teerdhiya; The ASI created and abared a high-teel ADA testing approach and implemented they posses. It has only robust testing approach and implemented they posses. It has only robust testing approach and implemented they posses. It has only robust testing approach and implemented they posses. It has only robust testing approach and testing and testing approach and testing approach returns and ADA defects that will impact project timelities or resources. ADA defects that will impact project timelities or resources addition, the ADI so defecting the topological ergons and enable addition, the ADI so defecting the use configured and set up, but it is on trady for testing until the User Journey, and the second and and defined. Assign the ADI synthesis report of the conclusion and set up. but it is on trady for testing until the User Journey Ard Beyrs. Will How, AdA testing in Octobar 2021. They pathoe conduct automated testing at an and and provides any significant while. The ADI pathoes to comments from ADI setsing in Octobar 2021. They pathoe conduct automated testing at an and and and provides any significant while. The ADI pathoes tool in Journa ADI setsing in Octobar 2021. They pathoe conduct automated testing at an and the adition of the setsing and the ADI pathoes tool in Journa 3. ADI conductation assessment using the ADI compliance tool in Journa 3. ADI conductation assessment using the ADI compliance tool in Journa 3. ADI conductation assessment using the ADI compliance tool in Journa 3. ADI conductation assessment using the ADI compliance tool in Journa 3. ADI conductation and assessment using the ADI compliance tool in Journa 3. ADI conductation and assessment using the ADI compliance tool in Journa 3. ADI conductation and assessment using the ADI compliance tool in Journa 3. ADI conductation and an ADI statement the pathoesing the results of activity propativity and ADI statement the pathoesing the results of ac		10/11/23 Report The closed as per-known mentioned based on the feedback provided to Byan. In commendation "In process." 03/121 124 Augedto "In process." 03/121 124 Augedto The deak-top ond to the deak-top ond to the deak-top ond to the deak-top ond the development than to the WMV has not constant with the development than to the deak to post to the deak top ond the development that to the deak top ond to the deak top
63 Twelt large and any garantic and coordination and the second second second second second second second schedule delays.	Finding - Risk	1/21/2011 Wegerstenowd Methodo Management	undefind ETS API Gateway; however, there is no evidence that details have been determined or documented in this regard There is little evidence of active and sufficient communication with interface partners for coordination, design, and testing activities; (Unit Test, STI, UAT) - Interface planning and execution tasks and activities, including those for interface	EQ or point data under estimate hin dur no model du piffettality nan gell ta bas data data data tito successfully integration data sharing. A data defined communication plan nat schedule that includes the coordination, planning, and execution activities allow plantinescon data successful their sch optionistial data with a data data and the schedule ta their sch optionistial data with a data data and the schedule ta their sch optionistial data with a data data and the schedule data data and the schedule of the schedule data data data data data data data data	dates with interface partners in writing. 7. Complete early proof of concep interfaces to avoid unexpected delays due to external organization miscommunications or their own internal delays in assisting the BES project 8. ASI and DHS conduct a root cause analysis to determine the reason FDDs	pt s s r r d h	4	2 Med	Open	provide solubility of the 3 better understanding of the XASA testing 00-29-2023 - The Moreorandium of Agreement with the Moreorandium of Understanding (MCAL and MCD) are being reasowed. 7 of 28 MCAL, 00-29 MCAL and MCD) are being reasowed 7 of 28 MCAL, 00-20 MCAL and MCD) are being reasowed. 7 of 28 MCAL, 00-20 MCAL and MCD are being reasowed 7 models of the MCDL and MCDL and MCD and MCD Untern. The DFG concern that Ad Value cancels are partication for charge the participation of MCDL. The relevant of completion of the Interface Cancel Documents (FCD) are intergraved, MCA and MCD Untern. The DFG concern the AGN and the MCDL and the other than the MCD Area and the MCDL and Interface Episeum (Interface Table). The the MCD and and the MCDL MCDL and the other than the MCDL MCDL and the MCDL and the MCDL MCDL and the MCDL and MCDL and the MCDL and the MCDL MCDL and the Interplace Table and the MCDL and the MCDL MCDL and the MCDL and MCDL and the MCDL and the MCDL MCDL and the MCDL and the MCDL and the MCDL MCDL and the MCDL MCDL and the MCDL and the MCDL and the MCDL MCDL MCDL MCDL and the MCDL MCDL MCDL MCDL MCDL MCDL MCDL MCDL		7/20/21 BAP - The AG team requests that the Vi&V reasess the subject of the following reasons: a) the ATC schedule asternion has made the urgency that started leasening that schedule risk, b) the schedule risk, b) the schedule risk, b) the discrete risk and the schedule risk, b) the discrete risk and the convert state of the schedule risk, b) the discrete risk and the convert state of the schedule risk, b) the convert state of the schedule risk, b) the convert state of the convert state of the the the convert state of the the convert the convert state of the convert the convert state of the convert the convert state of the convert state o
29 Interstatish end/or 3 host operativation. Fors, Mohad around long time architecture detections codd masci the project budget, schedule, system design, and planning decision.	Finding -	528/2015 Fried Mangement	system architecture decisions have not always been clearly communicated and socialized to all relevant project stakeholders. For example, the ASI and DHS had not broadly communicated their decision implementing two Siebel	available. These architecture plans and future state designs and capabilities should be thoroughly vetted by a broad base of relevant stakeholders and available experts and broadly communicated to relevant stakeholders as soon as possible. Architecture plans and changes that are not effectively communicated can lead to confusion and revork. For example, if	Deliverable with additional details as they become available and with any finalized architecturic sharges - tell's baselial centime to ask the AS to perform due diligence in any recommendation for foundational architectur change dictations and continue to review with appropriate DPS stakeholder to assure a common understanding of the implications of these decisions. The Project shadue continue to review communication between development leads and architecture leads to assure optimal collaboration opossible architecture changes that could impact decisions in each area.	e s -	2	2 Low	Open	In 1115 period with the complete the activativity work. In VH searched the complete the activativity of the search of the search of the period search of the search of the SE Strengt Institution of the search of the search of the SE Strengt Institution of the common statement of the SE Strengt Institution of the SE Strengt Institution of the search of the SE Strengt Institution of the Campos Institution of the search of the SE Strengt Institution of the Strengt Institution of the Strengt Institution of the Institution of the Strengt Institution of the Institution of the Strengt Institution of the Institution of the Strengt Institution of Strengt Institution Strengt Institution Institution of Strengt Institution of Strengt Institution of Strengt Institution of Strengt Institution of Strengt Institution Institution of Strengt Institution Institution of Strengt Institution Institution Institution Institution Strengt Institution Instit	Diel, Frank And parspaceho, we are bekängte tufferer, Future tettgaration of the practis sails to determined. Balls in an over complex Ban ongenäng plannes for data sharing. If change is made to Adobe, this would require a CD.	direction. In regard to 10 40/11/23 V/c. Per our discussion with Jae, Rama methode there will not be a need to a construct the second second achieves the second second second decrementation as a decrementation as a decrementation as a decision will be second protal vision. We expect that final decisions will be show the final plan for the two made decisions will be show the final plan for the two made decisions will be show the final plan for the two made decisions will be show the final plan for the two restores the show the second protal vision. We expect that final decisions will be show the final plan for the two made decisions will be show the final plan for the two restores the show the second the final means and plan for the final means any appetitions are complete. If the Visid vision to believe