

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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March 19, 2024

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 http://ets.hawaii.gov (see "Reports").

Sincerely,

Douglas Murdock (Mar 20, 2024 11:01 HST)

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)



Hawaii Department of Human Services Systems Modernization Project

Final IV&V Status Report for Reporting Period: February 1 – 29, 2024

Submitted: March 14, 2024



Overview

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





Executive Summary



The ASI published a draft "Go-to-Green" Plan this month, which proposed a six-month delay to implement BES. It also documented the root causes of the delay and presented a new approach to complete the Project within the extended timeline. Main points in the draft Go-to-Green Plan include:

- The ASI will assign more experienced staff to resolve critical defects (to address code quality issues resulting in defects, schedule delays to conduct the Sprint and Epic demos to DHS, and the completion of Integration Testing).
- The ASI will add developers to their team to reduce the development time of integrating Hana/BES (The scope is larger than expected due to the realization that the solution requires integration rather than a data interface as originally planned).
- The ASI also proposed a phased implementation approach that will offer the BES functionality in three major releases:
 - Phase I The Pilot Rollout will contain the revised core BES functionality agreed to by DHS and the ASI. The Phase I Pilot is planned for July 22, 2024, to October 19, 2024, with Go-Live on October 28, 2024.
 - **Phase II** The Statewide Rollout will add reports and interfaces to the functionality provided in the Pilot Rollout. The Phase II functionality is included in the October 28, 2024, Go-Live.
 - **Phase III** The Post Statewide Rollout will add the security Enclave and related IRS and SSA interfaces to the Statewide Rollout. The Phase III Go-Live is planned for February 24. 2025.

The phased approach may add complexity to the BES implementation on a project that is realizing disconnects in requirements and design. Additionally, this approach may require additional staff and processes to manage user training, defect identification and resolution, any additional required infrastructure, and communication regarding workarounds. As DHS and the ASI finalize the revisions to the approach and schedule, IV&V will evaluate with the project team new potential risks and/or adjustments to the existing risks and issues.

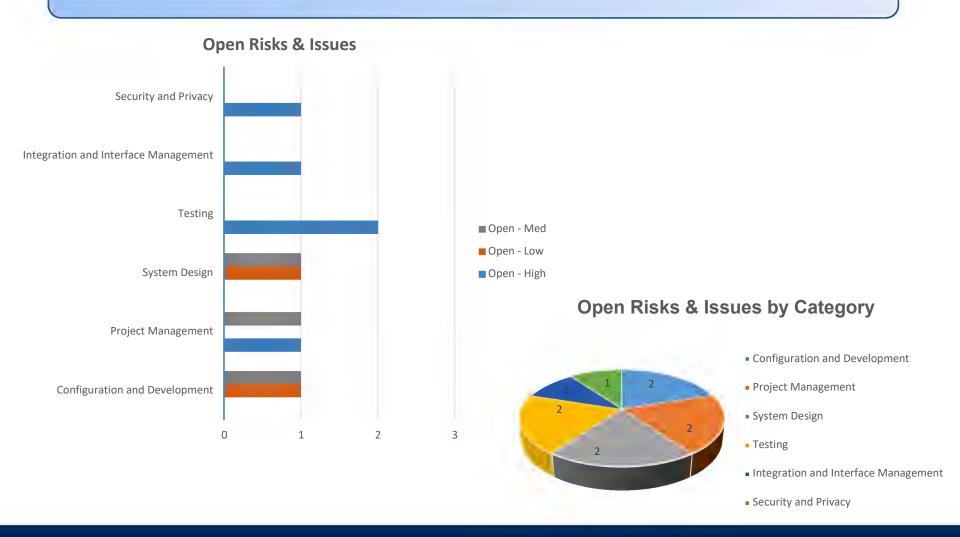
Executive Summary



Dec	Jan	Feb	Category	IV&V Observations
(<u>M</u>)	(E)	E	Project Management	The ASI published a draft Go-to-Green Plan, currently under review by DHS, FNS, and IV&V. The Plan may increase implementation complexity by separating key functionality into three Roll-out Phases.
M	M	(<u>M</u>)	System Design	The ASI was focused on developing the draft Go-to-Green Plan so there were minimal design activities in this reporting period. However, DHS identified new issues with eligibility design, meaning the ASI should include slack in the schedule to mitigate future delays.
(<u>M</u>)	M	(<u>M</u>)	Configuration and Development	The draft Go-to-Green Plan highlighted code quality issues as a root cause of the development and schedule delays. The ASI reported the draft Go-to-Green Plan addresses these issues going forward.
(M)	H	E	Integration and Interface Management	Issues within the Integration and Interface Management category are causing schedule delays. The ASI and DHS will need to resolve these issues and maintain a high level of visibility into the detailed interface activities to avoid a future schedule or functionality delay.
H	Н	Н	Testing	Progress continued during the reporting period to complete the Release 0.12 System Integration Testing (SIT) test scripts; a majority of the test scripts remain incomplete. If DHS approves the proposed multiple phases of implementation, the complexity of testing while implementing, along with defect resolution, adds additional coordination to all aspects of this project.
H	H	Н	Security and Privacy	The delivery date for the outstanding technical documentation needed for the System Security Plan (SSP) was delayed from the end of February into early March. As the technical documentation and 3rd Party Security Assessment must be completed before the Pilot, the security effort remains a risk.

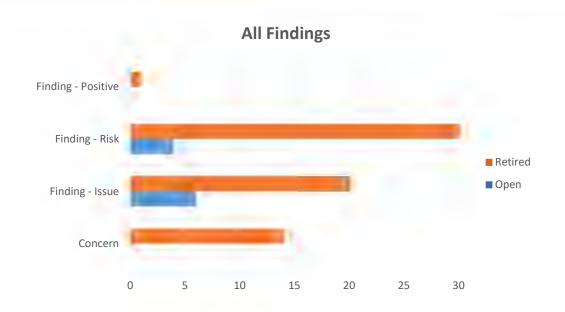


As of the February 2024 reporting period, PCG is tracking 10 open findings (4 risks, 6 issues) and has retired a total of 74 findings. Of the 10 open findings, 5 are High, 3 are Medium, and 2 are Low.





The following figure provides a breakdown of the 84 IV&V findings (positive, risks, issues, concerns) by status (open, retired).





Findings Retired During the Reporting Period

#	Finding	Category
IT	Risk – Changes required to incorporate the Federal Tax Offset Program (TOP) interface within the Secure Enclave may not occur before the BES Pilot.	
90	DHS and the ASI determined that the TOP files do not need to be routed to the Secure Enclave. The TOP address information will be in the Secure Enclave, with the remaining TOP data integrated into BES as designed. In addition, the ASI draft Go-to-Green plan changed the implementation of the interface from the initial pilot to the statewide release, allowing the ASI more time to develop and test this interface, therefore this finding is retired.	Integration and Interface Management



Preliminary Concerns Investigated During the Reporting Period





Findings Opened During the Reporting Period





Project Management

#	:	Key Findings	Criticality Rating
74	4	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. The Project has experienced many delays, the most recent of which was a four-week delay announced the end of January with the draft Go-to-Green Plan adding another six months.	Ð

Recommendations	Progress
Monitor, evaluate and revise scheduling estimates for accuracy.	In Process
ASI provide details on how Velocity measures were used to develop estimations for development effort in new version of DDI schedule	Incomplete
ASI conduct a Root Cause Analysis (RCA) with DHS and IV&V to determine why the BES Project Schedule continues to be impacted by unanticipated work.	Not Started
 ASI Project Management work with development teams to confirm the accuracy of Velocity to reduce risk in the new project schedules. 	Not Started



Project Management

#	Key Findings	Criticality Rating
	Risk – Implementing a Core Solution for go-live carries inherent risks that may impact overall project success and reduce user adoption.	
88	The ASI drafted a Go-to-Green Plan that includes an October 2024 Go-Live date, with several features to be released after the Pilot. Implementing the functionality of a core solution not tested in a real-world Pilot environment may lead to unexpected issues and bugs. IV&V remains concerned that user expectations will not be fully met as the go-live system will be missing functionality that could be important to many users.	M

Recommendations	Progress
 Increase OCM efforts to effectively manage user, general public, and legislative expectations for BES version at go-live. 	In process
 Prioritize feedback from users and FNS to ensure the solution meets their core needs and so users are clear on what features they are, and are not, getting. 	In process
 Actively monitor, assess, and address potential challenges throughout the development process including code quality, cutting scope to meet development milestones, insufficient user validation of demonstrated functionality, and fully defined workarounds to accommodate for the missing functionality. 	In process
 DHS carefully assesses whether the advantages of a timely release outweigh the advantages of going live with a system that provides more comprehensive functionality, requires fewer workarounds, and increases user satisfaction. 	In process



Integration and Interface Management

#	Key Findings	Criticality Rating
63	Issue – The lack of early planning and coordination with interface partners may result in schedule delays. The MOU/MOAs were completed and the Interface Control Documents (ICD) are updated. The interface testing team did not produce the Testing Plan on February 16th as specified in the draft Go-to-Green Plan.	

Recommendations	Progress
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. No material update in the reporting period.	L

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



Configuration and Development

#	Key Findings	Criticality Rating
	Issue – Development delays could negatively impact the project schedule and delay go-live.	
	The ASI reported additional delays that will push out Go-Live to October 2024, based on the draft Go-to-Green Plan. The ASI reported the Root Causes of this delay include:	
	Excessive defects	
80	 Lack of Code quality with downstream impacts to include additional defects and critical blockers causing delays with Sprint and Epic demos and the completion of Integration Testing 	М
	 New requirements were identified for both the Hana/BES interface and Secure Enclave. 	
	The draft Go-to-Green plan includes reorganizing the development team to have more experienced developers focus on critical defects and consistent enforcement of development standards across all development teams and other process improvements.	

Recommendations	Progress
 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
73	Risk – The planned BES infrastructure is complex which could be difficult to implement and maintain and could lead to schedule/cost impacts. No material update in the reporting period.	

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
1	Issue – Limited collaboration between the ASI and DHS in the design process could lead to BES usability issues and functionality gaps in the application and not meeting critical business needs for DHS and State clients.	
86	One demo (Epic Demo 211) was held in February as the ASI focused on developing a Go-to-Green Plan for the Project. DHS also raised concerns in Readiness meetings regarding a gap in design where eligibility is not forced to run when critical benefit data is modified on a case – which could also point to a gap in collaboration on key design decisions.	M

Recommendations	Progress
 Include a wide enough audience in all design and demo sessions to validate FNS and DHS functional artechnical requirements and system usability. 	nd 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. 	
 ASI and DHS re-evaluate the effectiveness of the recorded Sprint review process to ensure that designs with DHS expectations. 	align In Process



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	Entry into Release 12 SIT is delayed, the ASI is currently rescheduling the start date. A complete Release 12 SIT script package continues to be developed with 301 test scripts approved and ready for SIT and 886 test scripts pending review or in draft status. With a large number of test scripts pending and an undetermined SIT entry date, the risk of further delays remains high. Without the continuation of the comprehensive peer review of SIT test scripts, the risk of testing gaps remains high.	(II)

Recommendations	Progress
Monitor INT/SIT closely for both breadth and depth of testing to ensure the system	em is adequately tested. In process
 The project team reviews the SIT Entry and Exit criteria and revises them as ne begins with the best system possible. 	eded to ensure UAT/FAT In process
 ASI should determine the root cause of the failure to identify simple defects in II effective improvement processes to confirm early testing is adequate before en 	



Testing

#	Key Findings	Criticality Rating
	Issue – The current mitigation approach to complete the development of the remaining R0.12 Epics is condensed and aggressive and may increase the likelihood of schedule delays, quality issues, and a higher volume of testing defects.	
89	During the February 21, 2024, Weekly Project Status Meeting and February 28, 2024, BES Schedule Review Meeting, the ASI introduced the draft Go-to-Green Plan. However, edits to the Plan continue and final DHS approval is outstanding. The draft Go-to-Green Plan indicates an ongoing overlap of development and testing activities as functionality will be implemented during pilot and statewide rollout. System Development Best Practices recommend against overlapping testing phases because of the amount of rework and instability this causes to the project team and solution.	

Recommendations		
Develop Contingency Plans if the mitigation plan continues to see slippage affecting INT and SIT.	In process	
 The ASI provides comprehensive INT results and SIT scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution. 	In process	
 The ASI release a detailed schedule of events, including development completion, INT start, SIT start for each epic covered in the mitigation plan. 	In process	
 The ASI should evaluate if Epics entering SIT late might require retesting functionality that had already been tested 	In process	
The plan to complete BES implementation does not include overlapping testing phases	In process	



Security and Privacy

#	Key Findings	Criticality Rating
	Risk – The lack of technical documentation may lead to incorrect implementation statements or delay the System Security Plan (SSP).	
82	The security staff resolved issues in the Google Assured Workloads services for the Secure Enclave. The ASI continues to remediate findings from the vulnerability and compliance scans on the environment and work through issues related to the Tenable Nessus credentialed scanning. The security team rescheduled the due dates for the supporting security and privacy documentation for the SSP and intends to be completed by March 4th, 2024. Since there is a proposed schedule change in the Project's Go-To-Green Plan, this finding remains a risk instead of being elevated to a realized issue.	H

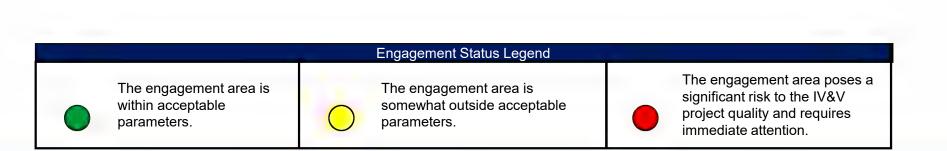
Recommendations		
Determine when the infrastructure design baseline will be completed.	In process	
Determine when documentation will be created, updated, and available for the SSP authors.	In process	
 Collaborate and communicate with SSP authors about when reliable and correct documentation will be available. 	In process	
 Perform a full review of all SSP controls for content and accuracy that have been written as drafts prior to the start of the Independent Security Controls Assessment of BES and submission of the SSP package to federa regulators. This will allow the SSP authors to update controls with changes from Design through Implementation. 		



IV&V Engagement Status



IV&V Engagement Area	Dec	Jan	Feb	Comments
IV&V Budget				
IV&V Schedule				DHS and PCG are discussing the extension of the IV&V contract that currently ends in April 2024.
IV&V Deliverables				PCG submitted the final January IV&V Monthly Status Report.
IV&V Staffing	•			Erik Torring is departing the IV&V team and Donna Hackett has been presented to DHS as his replacement.
IV&V Scope				



IV&V Activities



- IV&V activities in the February reporting period:
 - Completed January 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 March 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	02/28/2024,	N/A
BI-5 Project Schedule - BES 2023 DDI	02/28/2024	N/A
BM-09 BES M&O Migration Plan	2/12/2024	N/A
BI-29 Roll Out Plan DED	2/9/2024	N/A

Additional Inputs – Artifacts



Artifact Name	Artifact Date	Version
BES 2023 Design Kanban board	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
R0.12 Epic and Sprint Demo Recordings	N/A	N/A
ADA dashboard	N/A	N/A
Jira Requirements Details	N/A	N/A
Jira Testing Lists	N/A	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. IV&V Team Meeting 2/1/2024, 2/5/2024, 2/8/2024, 2/12/2024, 2/15/2024, 2/20/2024, 2/22/2024, 2/26/2024, 2/29/2024
- 2. IV&V September 2023 Pre-Draft MSR Findings Review 2/6/2024
- 3. HI DHS BES January Draft IV&V Report Review 2/13/2024
- 4. Bi-Weekly DHS and IV&V Touch Base 2/6/2024, 2/13/2024
- 5. Weekly BES Infrastructure meeting 2/2/2024, 2/9/2024, 2/16/2024, 2/23/2024
- 6. DHS/IV&V Check-in 2/1/2024, 2/29/2024
- 7. Weekly Client BES 2023 Project Status Meeting 2/21/2024, 2/28/2024
- 8. Security Touchpoint 2/7/2024, 2/14/2024, 2/21/2024, 2/28/2024
- 9. Weekly Data Conversion Workgroup 2/1/2024,
- 10. PMO End of Day Huddle 2/1/2024, 2/29/2024
- 11. (External Epic demo) Epic 211 Disability and Good Cause 2/29/2024
- 12. (External) Weekly Interfaces Touchpoint 2/5/2024, 2/12/2024, 2/26/2024
- 13. (External) Readiness Working Group Meeting 2/6/2024, 2/13/2024, 2/20/2024, 2/27/2024
- 14. (External) Bi-Weekly Client BES 2023 Schedule Review/Status 2/28/2024
- 15. (External) Bi-weekly BES CCB Meeting 2/21/2024
- 16. (External) BES: FNS Connect 2/1/2024, 2/8/2024, 2/22/2024, 2/29/2024
- 17. (External) Testing Benefit Files from BES and HAWI- 2/22/2024
- 18. (External) Review Reports with MSO/R&S-2/16/2024
- 19. (External) BM-09 Deliverable Discussion with IV&V-2/15/2024
- 20. FAT Touchpoint Meeting with IM 2/7/2024
- 21. (External-Epic Demo) Epic 247 Correspondence Priority 2, Set #2- 2/2/2024
- 22. (External) Testing DOTAX files and Processing Schedule–2/12/2024
- 23. (External) BI-29 Roll Out Plan DED Deliverable Response Review Meeting 2/9/2024





Appendix A – IV&V Criticality Ratings

Criticality Rating	Definition
H	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.
М	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.
	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.

Appendix B – Findings Log



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

Appendix C – Acronyms and Glossary



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



Appendix C – Acronyms and Glossary

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





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



Solutions that Matter

The current approach to complete Torring, Erik development of the remaining R0.12 epics is condensed and aggressive and may increase the likelihood of schedule delays, quality issues, and higher volume of testing defects.	Type Date Catego	y Observation	Significance	Recommendation Event Horizon	Impact Probability Priority Status	Status Update Client Comments	Vendor Commen
condensed and aggressive and may increase the likelihood of schedule delays, quality	rik Finding - 12/21/2023 Testing	Ten of the Epics scheduled for completion before Release 0.12 SIT will not		- Develop Contingency Plans if the mitigation plan continues to see slippage Now	4 5 High Open	2/22/2024 - During the February 21, 2024, Weekly Project Status Meeting	
condensed and aggressive and may increase the likelihood of schedule delays, quality issues, and higher volume of testing defects.	Issue	be ready. To avoid SIT delays, the current approach is to begin SIT without	Insufficient INT may create gaps in SIT, leading to further quality issues. This	affecting INT and SIT The ASI provides comprehensive INT results and SIT		and February 28, 2024, BES Schedule Review Meeting, the ASI introduced	
issues, and higher volume of testing defects.		the 10 Epics and test them as they are completed. Additionally, Release 0.1 development that was extended two weeks from the scheduled end date h	2 may increase the risk of significant delays or introduce defects into the	scenarios for incomplete Epics to DHS for review/approval ahead of SIT execution The ASI release a detailed schedule of events, including		and detailed the draft Go-to-Green plan. However, edits to the plan continue and final DHS approval is outstanding. The draft Go-to-Green plan indicates an onegoing overlap of development and testing activities as functionality will	
		development that was extended two weeks from the scheduled end date in been extended for another ten business days.	as production environment.			and final DHS approval is outstanding. The draft Go-to-forcer plan indicates an inscribe approval is development and testing artistities as functionality will	
				mitigation plan The ASI should evaluate if Epics entering SIT late might require retesting functionality that had already been tested The plan to		be phased into pilot and statewide rollout. System Development Best	
				require retesting functionality that had already been tested The plan to		be phased into pilot and statewide rollout. System Development Best Practices recommend no testing phases be overlapped because of the	
				complete BES implementation does not include overlapping testing phases			
						solution. 1/31/2024 -To milligate the INT and STF overlap and incomplete SIT test scripts, the ASI moved the start of SIT to February 2nd, with	
						"informal" SIT continuing in January. Despite this attempt, continued	
						development delays and code quality issues led to adding 2 integration	
						testing sprints, further extending integration testing. Additionally, on January 31, 2024, the ASI announced the delay of the February 2nd SIT entry	
						January 31, 2024, the ASI announced the delay of the February 2nd SIT entry	
						date and stated that a new mitigation approach to meet the August Go-Live date was under development. IV&V has updated this finding to an "Issue"	
						date was under development. IV&V has updated this finding to an "Issue" and the Criticality Rating to "High"	
Implementing a Core Solution for go-live Fors, Michael	nael Finding - 11/30/2023 Project	The project has elected to implement a Core Solution at go-live to meet the	eir Going live with a limited version of a software product entails inherent risks	, • Increase OCM efforts to effectively manage user, general public, and Now	3 3 Med Open	02/29/24 - The ASI drafted a Go-to-Green plan that includes an October	
carries inherent risks that may impact	Risk Manag	ment stated timeline. This version is generally referred to in Agile software	such as potential challenges in securing user buy-in. This can result in	legislative expectations for the Core Solution approach. • Prioritize feedback		2024 Go-Live date, with several features to be released after Pilot.	12/15/2023 - Ab
overall project success and reduce user		development as a Minimum Viable Product (MVP), which is a simplified	limited user adoption, user dissatisfaction, and negative publicity, of particularly considering the financial investment made for the delivery of	from users and FNS to ensure the Core Solution meets their core needs and		Implementing the functionality of a core solution not tested in a real-world Pilot environment may lead to unexpected issues and bugs. I/V remains	already addresse
adoption.		version of a product that 1) offers functionality that meets the core needs	of particularly considering the financial investment made for the delivery of Ilmited functionality. A compressed timeline may compromise the quality of	so users are clear on what features they are, and are not, getting in the		Pilot environment may lead to unexpected issues and bugs. IVV remains concerned that user expectations will not be fully met as the go-live system	DHS/Joe Campos.Ensure
		get real-world feedback from users to refine future product development.	designs, user interface sophistication, and lead to an uptick in software bug	s challenges throughout the core solution development process including		will be missing functionality that could be important to many users.	recommendation
		0	designs, user interface sophistication, and lead to an uptick in software bug and suboptimal code. Further, this approach may expose the project to	code quality, cutting scope to meet development milestones, insufficient		will be missing functionality that could be important to many users. 11/23/23 - The ASI recently transitioned the OCM leadership role to a new	reflect "In Progre
			regulatory compliance risks, such as last-minute objections from regulatory bodies like FNS, which could find certain system elements non-compliant	user validation of demonstrated functionality, and fully defined			"In Process".
			bodies like FNS, which could find certain system elements non-compliant	workarounds to accommodate for the missing functionality. • DHS carefully		Implementing the Core Solution and effectively managing user, public, and legislative expectations. The ASI has stated they do not expect this transition	
			with their standards and delay the go-live date. Misalignment between	assess whether the advantages of a timely release outweigh the advantages of going live with a system that provides more comprehensive functionality.		legislative expectations. The ASI has stated they do not expect this transition	
			or a lack of support for the project and could negatively impact future project funding requests. Implementing a limited Core Solution typically	requires fewer workarounds, and increases user satisfaction.		to negatively impact the project and have noted some potentia(e.g., epic improvements. 12/31/23 - Delays in some planned activities (e.g., epic demos, interface designs) and the development of the secure enclave are	
			project funding requests. Implementing a limited Core Solution typically			demos, interface designs) and the development of the secure enclave are	
						causing milestones to be missed. IVV remains concerned about potential	
			features can be built into the system. Users could become impatient if thes features are further delayed when bug fixes and other features take	e		quality impacts due to the need to accelerate efforts to compensate for	
			features are further delayed when bug fixes and other features take			missed milestones. Delays in some planned activities (e.g., epic demos,	
			precedence. Others may lose confidence that the features or system improvements will ever be implemented. Going live with a solution that is			interface designs) and the development of the secure enclave is causing	
			improvements will ever be implemented. Going live with a solution that is missing functionality that stakeholders were expecting typically requires an			milestones to mised. Not method about potential quality impacts due to the need to accelerate efforts to compensate for mised.	
			increase in OCM efforts both by the ASI and DHS staff to temper			milestones.	
			stakeholders' reactions to a system with limited functionality.				
5 Limited collaboration between the ASI and Molina, Bras	rad Dinding - 9/1/2022 C	Design During the UAT process for release 11, there has been a high level of	A simplificant amount of money and DHC resource time by the formation in the second of	Include a wide enough audience in all design and demo sessions to validate. Now	4 3 Med Open	02/29/2024 - One demo (Epic Demo 211) was held in February as the ASI 10/11/2023 Jessica - Our SMEs are providing their feedback. This is one	no of
Limited collaboration between the ASI and Molina, Bras DHS in the design process could lead to BES	Issue S/1/2023 System	concerns raised by the DHS testers regarding the usability of the RES system	n the RFS solution with the expectation that the new system will at minimum	FNS and DHS functional and technical requirements and system usability -	→ 3 Med Open	focused on developing a Go-to-Green Plan for the Project DHS also raised the items that I clarified with IV&V that there are feedback given no	
usability issues and functionality gans in the		challenges with the user interface, missing functionality, and havin screen	provide all functionality found in current applications – but really should	Perform Sprint and Epic demos in alignment with development sprint		concerns in Readiness meetings regarding a gap in design where eligibility is feedback means design is ok. I rec'd an email bark from toe F that N/RV	/ 10/31/2023 -
applications and not meeting critical		layout issues that would not be expected in a modern application. Based of	provide all functionality found in current applications – but really should in provide additional capabilities, greatly enhanced user interface, and overall improved usability from current systems. Should the solution fall short of	completion (demo functionality/requirements as they are developed) to get		concerns in Readiness meetings regarding a gap in design where eligibility is feedback means design is ok. I rec'd an emal back from Joe F. that IV&V not forced to run when critical benefit data is modified on a case – which wants to meet with our reviewer to validate this.	Vic - Conversatio
business needs for DHS and State clients.		defect reporting from the UAT process, a large majority of the defects are	improved usability from current systems. Should the solution fall short of	early feedback on work products Perform comprehensive (demo all		could also noint to a gan in collaboration on key design decisions	with BES PMO a
		related to "design errors". Although the Release 11 UAT cycle was testing	 expectations, there may be challenges in DHS staff adoption; lack of confidence in the solution providing the accurate information needed to 	requirements) review during Epic demos, not just the items that were added/updated, allowing DHS to provide early feedback on possible		01/31/2024 - DHS viewed Sprint demos for Epics 247 and 284 on January 9, 2024, where several concerns/issues were raised, resulting in necessary bug	live demos. Will as recorded dem
		partially build system, a significant amount of design defects was	confidence in the solution providing the accurate information needed to	added/updated, allowing DHS to provide early feedback on possible		2024, where several concerns/issues were raised, resulting in necessary bug	as recorded dem
		attributable to functionality developed for Release 11.	provide benefits to HI citizens; reduction in ability for DHS to provide the same level of needed services to clients, resulting in bad publicity for DHS	functionality - ASI and DMS re-evaluate the effectionners of the recorded		fixes. User experience issues that should have been raised during the sprint	but we addresses JF - open comme
			and the state.	Sprint review process to ensure that designs align with DHS expectations.		demox were brought up during the Epic Demo for Epic 240 (repayment agreement), that the ASI is not considering at this time. As of the end of January, the ASI was developing a Co-Orene Phat to militage several	Vic - after demo
						January, the ASI was developing a Go-to-Green Plan to mitigate several	complete, feedba
						delays, including demos, 12/31/2023 - DHS opened a new high-severity	and
						project risk, which then escalated to an issue, on December 4, 2023, since	acknowledgemen
						the sprint and epic demos will not be completed by the end of the Release	Vic - for the next
						0.12 DDI phase. IVV shares this concern, as issues discovered during the demos will require additional design, development, and testing for the	Vic - for the next
						demos will require additional design, development, and esting for the	reporting period. want to keep the
						impacted epic, potentially pushing out the schedule. 11/30/2023 - As of the end of November, the ASI has nine Sprint demos to execute and all 28 Epic	feedback to the S
						demos. Depending on the outcome, this could cause the ASI to extend development while testing is occurring or defer the functionality to post-	Policy and Functi
						development while testing is occurring or defer the functionality to post-	SMEs.
						Pilot, creating additional unplanned work for DHS. 10/31/2023 - IVV notes positive progress this month in that the DHS SMEs are providing more	We are getting of
						positive progress this month in that the DHS SMEs are providing more	way comments.
						feedback to the ASI on the BES design. The DHS PM has requested Sprint	Nicole is finding
						demo process updates to ensure that DHS staff who provided feedback are aware of the resolution of their comments. The ASI has also noted gaps in	comments from s
						aware or the resolution of their comments. The ASI has also noted gaps in communication (design misunderstandings) between the ASI Business	in detail.10/11/2
						Analysts and DHS SMEs. DHS SMEs have suggested that communications	III Occasi. 20/11/1
						Analysts and DHS SMEs. DHS SMEs have suggested that communications would be clearer if the ware included in the demons. VRAV respectfully 2/21/2024 - Entry into Release 123 Till delayed, the ASI is currently	Please reference
3 Gaps in test coverage and slower-than- Torring, Erik	rik Finding - 6/2/2023 Testing	After examining the Project's R11 QA Dashboards, R11 Traceability	Identifying defects early is vital for effective testing, as it is more efficient	OPEN The ASI should determine the root cause of the failure to identify UAT	4 4 High Open	2/21/2024 - Entry into Release 12 SiT is delayed, the ASI is currently	
expected progress in testing may result in schedule delays if subsequent test phases	Issue	Dashboards, and Test Repository, gaps in testing coverage may exist and the	e and cost-effective to address issues during the early testing stages. If there	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 to		rescheduling the start date. A complete Release 12 SIT script package continues to be developed with 301 test scripts approved and ready for SIT	12/15/2023 - Th
uncover a higher volume of defects and user		progress of testing might be lagging. Concerning testing coverage, it appears that not all enior and use cases in R11 have associated test cases or are	rs is slow progress or incomplete testing in the early stages, it can result in	processes to confirm early testing is adequate perore entering UAI/FAI		and 886 test scripts pending review or in draft status. With a large number	12/15/2023 - In that stared on 12
feedback than initially anticipated.						of test coriets pending and an undetermined SIT entry date, the risk of	internal to eWor
		unexecuted, and not all defects have been resolved as the project	than-anticipated progress throughout the project lifecycle increases the risk	exit criteria and revises them as needed to ensure UAT/FAT begins with the		further delays remains high. Without the continuation of the comprehensive	and not the office
		unexecuted, and not all defects have been resolved as the project commences System Integration Testing (SIT). The ASI has plans to complete	than-anticipated progress throughout the project lifecycle increases the risis of encountering significant delays, extensions, or the introduction of defect	s best system possible.		further delays, without the continuous of the properties of the continuous of the comprehensive peer review of SIT test scripts, the risk of testing gaps remains high.	start in January.
		the INT exit criteria by June 16, 2023, about 2 weeks after SIT begins.	into the production environment during the final testing stage, known as				SIT that started is
			Final Acceptance Testing (FAT).			As Seen delayed to an undetermined date. Approved and final ST test scripts remain incomplete for twenty-five Epics. With the lack of a complete	eWorldES interna
						scripts remain incomplete for twenty-five Epics. With the lack of a complete SIT script package before the SIT Go/No-go decision, the risk of introducing	testing to ensure already delivered
						SI SCRIPE PACKAGE DEFORE SI GO/NO-go decision, the risk of introducing	functionality is
						gaps in test coverage in ST remains. 12/21/2023 - The ASI delivered the BI- 20 (Release 0.12 BES Test Scenarios, Cases, and Scripts) to DHS for review	working appropri
						ASI proposed to provide as continuous updates when the data becomes	10/31/2023 - Vid
							R12, DHS will be
						ASI proposed to provide as continuous updates when the data becomes available. This approach poses a risk to the Project as this deliverable	R12, DHS will be to evaluate SIT to
							R12, DHS will be to evaluate SIT to scripts in lira
							R12, DHS will be to evaluate SIT to scripts in lina
						Informs DHS' go/no-go decision to start STI feeting. 11/30/2023 - During November, the ASI continued to create and update the STI test cases. As reported last month, until this is completed DHS cannot evaluate the test	R12, DHS will be to evaluate SIT to scripts in Jira. FAT planning me when Trisha is b
						informs DRS garling as decision to start ST testing, 11/36/2023 - During November, the AC protinued to create any legislate the ST test scars. As reported last month, until this is completed CHS cannot evaluate the test created any control of the start and the start of the star	R12, DHS will be to evaluate SIT to scripts in Jira. FAT planning me when Trisha is b SIT entrance crit well in these me
						informs DRF globe go decision to start \$11 setting, \$1.13(n)(2023). Touring November, the AS confirmed to recreat any district the \$6T seet case. As reported but month, until this is completed DRF cannot evaluate the set cases for sell coverage of \$8T\$ functionally and owndeep oppor sign off to enter \$1T\$. While these concerns are still present, the peer review process implemented by the AS has resulted in improved quality and completeness.	R12, DHS will be to evaluate SIT to scripts in Jira. FAT planning me when Trisha is b SIT entrance crit well in these me Vic - overlap of I
						informs Dirt Spring-go decision to start silf stelling. 3.113/B/2013. During November, the AR confirmed to create and update the ST stell cases. As reported last smooth, until this is completed their cannot evaluate the less cannot evaluate the l	R12, DHS will be to evaluate SIT to scripts in Jira. FAT planning me when Trisha is b SIT entrance crit well in these me Vic - overlap of I and SIT. Testing
						informs Dirt gloving and decision to start ST testing. 113/p10/2023. During Newmorth, PLAS CONTROL (1975). The control process of the con	R12, DHS will be to evaluate SIT to scripts in Jira. FAT planning me when Trisha is b SIT entrance crit well in these me Vic - overlap of i and SIT. Testing Will be testing
						informs DRF gloting and decision to start still sessing. 3.11/p.01023. During November, the AS continued to create and update the ST steet cases. As reported start smoth, until their scorepised DRF cannot evaluate the east cases for full coverage of ST functionally and provide proper spin of to outsir ST. While their cancers are set of sill present, the peer review process of the set of set of the set of set. Then set of set	R12, DHS will be to evaluate ST it scripts in Jira. FAT planning me when Trisha is b SIT entrance crit well in these me Vic - overlap of I and SIT. Testing Will be testing everything that v
						informs DIFF gloing and decision to start stiff stelling. 3.11/p0/2013. During November, the AR confirmed to create and update the ST freet cases. As reported set resolving, until this is completed DET cannot evaluate the text and the start training and the start of start of start of start of the start of the start of start of start of start of the start of the start of start of start of start of the start of the start of	R12, DHS will be to evaluate SIT to scripts in Jira. FAT planning me when Trisha is bit SIT entrance critic well in these mer Vic - overlap of ill and SIT. Testing Will be testing everything that v previously done in the state of the state
						informs DIFF gloing and decision to start stiff stelling. 3.11/p0/2013. During November, the AR confirmed to create and update the ST freet cases. As reported set resolving, until this is completed DET cannot evaluate the text and the start training and the start of start of start of start of the start of the start of start of start of start of the start of the start of start of start of start of the start of the start of	R12, DHS will be to evaluate ST it scripts in Jira. FAT planning me when Trisha is b SIT entrance crit well in these me Vic - overlap of I and SIT. Testing Will be testing everything that v
The lack of feebrical documentation may: Health Details	sstin Finding - 4/27/2023 Security	and In April, the ASJ/INS system security plan (SSF) authors became writine	Once the system architecture and design have been completed, the SSP	Determine when the infrastructure design baseline will be completed. Prior to the state	ort of 5 4 High Open	informs Dirt Spring-go decision to start still stelling. 1.13/p.10231. During November, the AS continued to create and quiette bett first cases. As Associated to the continued of the continued	R12, DHS will be to evaluate SIT to evaluate SIT to religious in Jira. FAT planning me when Trisha is to SIT entrance critic well in these me Vic - overlap of and SIT. Testing Will be testing everything that previously done prior releases.
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Reference of the control of the cont		Date Category	Observation	Simificance	Pacommandation	Funct Horizon Imi	part Probability Briggi	Ctatur .	Status Hodata Clie	of Comments	Vandor Commont
The state of the control of the cont		6/30/2022 Configuration and	d ASI had previously reported development activities have been slowed as			Immediate	3 3 Med	Open			
The state of the s	the project schedule and delay go-live. Issue	Development	they have been unable to achieve and/or maintain their expected							1	10/31/2023 - Vic -
The stands of th			development velocity. Previously, the development team was challenged	Failure to achieve a level of accuracy in estimating development tasks could	(e.g., story points per day/week/month) and assure that the current velocit	ty				n	mixed bag here. V
Service of the control of the contro			with accurately estimating development task level of effort (i.e., story	lead to a project schedule that is flawed and unrealistic. Previously, DHS bad indicated, and INV arrend, that some of these delays were due to some	is accurately and consistently reflected in the project schedule. • ASI provide DNS with the time peopled to effectively evaluate the reftwere	de			with downstream impacts to include additional defects and critical blockers		are mentioning d misunderstanding
Reference of the control of the cont			schedule that accurately reflects realistic timelines (see Finding #74). The	ASI BAs lacking the expertise required to create ontimal designs and system	demonstrations (demos) and elicit productive design discussions with DHS				Testing - development delays with the Hana/RFS interface and Secure		MF - improve the
For the property of the proper			ASI continues to be challenged with finding qualified resources in a timely	specifications that developers could consume without requiring extensive	attendees during each demo. • ASI regularly report estimated story points				Enclave. The draft Go-to-Green plan includes reorganizing the development	d	design
Property of the control of the contr			manner.	clarification from the ASI BA/SA team. DHS and IVV observed instances	for the total remaining project work to reach go-live and presents a dynam	nic					communications.
A Parl Marian and Mari				where ASI BAs/SAs have presented less than optimal designs and left it to	burn-down chart to track the progress. COMPLETE CLOSED • DHS request				consistent enforcement of development standards across all development	F	Rama - I am trying
Reference was a service of the content and the				DHS (who may lack software or UI design expertise) to improve, which has	the ASI strategically add the right project team resources to effectively				teams and other process improvements. 01/23/24 - Ongoing development		understand what
The second secon				contributed to unproductive design sessions (see Finding #61). It remains	increase velocity. Note that adding additional junior resources may not be a effective as staffing additional expect level development, applicit, and other	as or			delays are still affecting the Project, requiring additional development and	d	development dela two months left in
Property of the control of the contr				uncear it scope creep has contributed to triese delays.	recover as starting additional experiment development, analysis, and only	ei			live date the project elected to quarker BIT and SIT, but this is subject to the		DDI.
Property of the control of the contr					development process and identifies and mitigates the challenges preventin	ng			Go-to-Green Plan that the ASI announced at the end of January. 12/31/23	, v	Vic - we wil evalua
To protect the control of the contro					them from incorporating Epic demo activities into the project schedule.	•			The ASI reported development delays related to 10 epics but has also		the draft.
The standard					(9/29/23 - ASI will not be doing this, with DHS approval)						
The state of the s											
* Particular properties of the particular pro									project schedule and implementation milestones. 11/30/23 - The ASI		
Part											
To suppose the service of the servic									go-live due to a missing requirement for PIN issuance. Additional		
Separate services and services and services are serviced as a service and serviced as a serviced a									development sprints were added to address the delays, and these sprints		
Service of the content of the conten											
Company of the comp									concerned that additional development delays could require further		
The second secon									in communication (decises missunderstandings) between ASI BAr and DHS		
A Mary Configuration of the co											
The state of the control of the cont									hest way to address this. The DHS SMFs have suggested that design		
The state of the s	A BES Project schedule based on inaccurate Molina, Brad Finding -					Immediate	3 4 High	Open	2/29/2024 - The Project has experienced many delays, the most recent of		
In the control of the		Management							which was a four-week delay announced the end of January and the draft		
Manual Park Park Park Park Park Park Park Park	and resource management, which could		estimating practices, and ability to manage to the schedule persist. The use	rushed activities, and general frustration which can lead to schedule delays,	estimations for development effort in new version of DDI schedule - ASI	ha			Go-to-Green Plan is adding another six months. 1/31/2024 - At the start of		11/17/2023 - As mentioned in or
Part			Previous IVAV findings focused on specific schedule components with a	low quality output, scope changes, and buoget issues.							As mentioned in or pre-meet, the only
The control of the co			resource management and critical path analysis, all of which were		Project Management work with development teams to confirm the accuracy	cy			not start as planned. The project status report indicated "Red" in most	F	significant revision
Part			addressed and closed.		of Velocity to reduce risk in the new project schedules. COMPLETE DHS and	nd			categories and the ASI reported they were developing a Go-to-Green Plan.		made to the sched
Part					the ASI agree to a revised schedule against which project deliverables can be	be			Further delays may be imminent. IVV has raised the criticality rating of this		were with the
Part					managed, (2/28/2023 - complete) ASI host a weekly meeting with DHS and	1			finding to "High". 12/31/2023 - With 10 epics for release 0.12 in	r	refinement of train
Fig. 19 10 10 10 10 10 10 10 10 10 10 10 10 10					IVV to review all changes to the project schedules (Primary and DDI).				development, another development and integration testing sprint was	d	dates. I also mention dates will continue
Part											evolve as we progr
For the property of the proper					possible revisions. (12/31/2023 No done) As requested by DHS, add key	ui .			milestones. 11/30/2023 - Additional development and testing sprints were	f	further into the
A TANK PART OF THE					milestones to the project schedule, such as Sprint and Epic demos, to show	v				p	project phases. Ple
The control of tension of the control of tension of the control of tension of					key progress towards completion of Epics. (9/29/23 ASI says that they will						consider "softenin
Here were an experimental properties of the control properties of the										У	your status verbiag
In the part of the					live date will not result in major implications. (6/29/23) Leverage velocity				development sprints for interfaces will overlap with Integration Testing (INT)		
Here we will be a proper season of the company of t					and burn down charts to adjust development tasks estimates it needed.				and the start of SII in order to meet the Pilot and Go-Live dates. 10/21/2022 - The RES project schedule continues to have significant	,	10/31/2023
Part Designation in administration to the property of the Control Cont					estimates if needed (4/30/2023 - ASI using lira) Lising the available tools				revisions after heing re-haselined including delays to tasks (a training task		Vic - Significant
And the Control Contro					review the current estimates to complete each activity compared to past				was delayed over a hundred days due to schedule refinement). IVV	r	revisions, what are
In the particular properties of the particula					actual hours (1/31/2023 - new ASI - Not Started) Update as necessary and				continues to monitor the schedule for possible estimation issues that could	у	you concerned abo
See Control of Control					provide the DHS/ASI Project Managers with reports and data that accurate	rly			introduce risk in meeting key milestones of the project. 9/31/2023 - The ASI	B	Brad - big swings in
The properties of the properti					reflect the DHS/ASI resource needs along with over/under allocations of				re-baselined both the Primary and DDI BES Implementation schedules,		the schedule. Train
The plane of Estimate recomposition of the properties of the plane of					staff for the duration of the Project (1/31/2023 - new ASI - Not Started)				adding 8 weeks to release 0.12 and addressing DHS and IV&V's concerns	V	Vic - Training - Ton has been working t
The standard					DEVELOP Integration and contingency plans triac are tracked/managed by				complete the remainder of the Brolect. As the ASI requested to shift the	"	refine dates. As w
To implicate company of the following special spring of the company of the compan						•					know more it is
In the function of the property of the propert	The planned BES infrastructure is complex Fors, Michael Finding -	10/28/2021 System Design	Current ASI infrastructure plans include a significant number of	If the level of effort to implement and manage the complexities of the BES	 ASI develop a process to closely monitor cloud and other product change. 	es Next several	2 2 Low	Open	2/29/24 - No material update in the reporting period. 1/23/24 - No		
And the find mining and the plant of the pla	which could be difficult to implement and Risk			infrastructure is not accurately accounted for and staffed by the ASI, the	(software updates/new releases), manage changes, and regression test one	ce months			material update in the reporting period. IVV continues to monitor this		11/17/2023 -
and least to the fire dispersal compares are constructed in the conduction of the co	lead to schedule/cost impacts.		Further, the Project Team has yet to finalize components that will make up	project could be met with unexpected costs and schedule delays. Delays in	updates are applied. • The project team work to establish strong governance	ice			finding. 12/31/23 - No material update in the reporting period. IVV		Again, why is DR be referenced here? P
methodological programment of approximation for a signature of approximation for approxima			the BES intrastructure and the additional costs and time to configure, test,	finalizing the components being implemented could exacerbate this risks	over the utilization and maintenance or the various system				continues to monitor this finding. 11/30/23 - Some components of the BES		the current project
water particular and particular p			and implement the planned complex environment remain unclear.								schedule, the DR pi
would dainy might could dainy project relations and dainy might could dainy project relations to the might could dainy might could dainy project relations to the might could display the might could display project relations to the might could display p				increased potential for system failure (i.e., due to the significant number of	maintain a detailed schedule for DevOps implementation tasks to avoid				going forward. The ASI has reported they are close to finalizing the Secure	1	is scheduled to be
ment be information an executive of the size of the control of the				"moving parts") and increase the level of time and effort to resolve	unexpected delays that could delay project milestones and the critical path	1.			Enclave infrastructure to house FTI data. The ASI appears to be making	s	submitted at the e
ensuch the report under questions around the control product and questions aro				infrastructure and application-level bugs. Further, some components					progress on DR plans and designs. 10/30/23 - The ASI continues to have		of the year. Remin
Could seed in consumeration resignation in resignation				remain in an immature state compared to their legacy counterparts. For					productive discussions with DHS during their weekly Architecture calls. The		Pilot Go-Live is Apr
suppose of the company of the compan				example, the project recently experienced a system failure because Google					ASI has yet to finalize their plans and technical architecture for conducting	2	2024.
product fifting, compared to their row (function with aboves. More and the product of their row (function with aboves. More and the product of their row (function with above and the product of their row (function with above and the product of their row (function with a product of their row). The product of their row (function with above and the product of their row). The product of their row (function with above and the product of their row). The product of their row (function with above and the product of their row). The product of their row (function with above and the product of their row). The product of their row (function with a product of their row), and the product of their row (function with a product of their row). The product of their row (function with a product of their row), and the product of their row (function with a product of their row). The product of their row (function with a product of their row), and the product of their row), and the product of their row (function with a product of their row), and their row (function with a product of their row), and their row (function with a product of their row), and their row (function with a product of their row), and their row (function with a product of their row), and their row (function with a product of their row), and their row (function with a product of their row), and their row (function with a product of their row), and their row (function with a product of their row), and their row (function with a product of their row), and their row (function with row), and their row (function with row), and their row), and their row (function with row), and their row (function with row), and their row), and their row (function with row), and their row), and their row (function with row), and their row), and their row (function with row), and their row), and their row (function with row), and their row), and their row (function with row), and their row), and their row (function with row), and their row), and their row (function with row), and their row				component (i.e. Nevur). Goodle Cloud is reperally viewed as a less mature.					come benefit and can simplify some elements of DR. However, it remains		10/31/2023 -
According from concreased that the promise controlled that				product offering compared to their rivals (Amazon Web Services Microsoft							Vic - westill do
particular of the property including pool goe has proportional for large plant and support plant plant and support plant plant and support plant				Azure). IV&V remains concerned that this could lead to failures at critical							notunderstand why
Applicant configuration management. Me had believe to entire the following subjective to the following subject to the				points in the project (including post-go live production failures) that could					The ASI has experienced turnover of their Enterprise Architect position; this	t	this remains.
residue the effectiveness of defect residuous management. For Michael Rodge and Complex an				be difficult to resolve and lead to project disruption. If DHS intends to					does not appear to have had a material impact on the overall infrastructure	1	10/11/2023
In sufficiency Configuration management in decision that cooling action management is decision that cooling action management in decision that cooling action management is decision that cooling act				eventually reduce M&O outsourcing costs turning over M&O tasks to State							
To function of the first transport of the fir				employees, they could face challenges supporting tools they may not be					infrastructure and is confident that the automation they've implemented	-	Please referenc
Applicant configuration management. For, Michael Finding: 70 fourfloars configuration management and four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the Bit SD DFar Deliverable, Section 5.2 establishes the four-special positions of the SD DFar Deliverable, Section 5.2 establishes the four-special positions of the SD DFar Deliverable, Section 5.2 establishes the four-special positions of the SD DFar Deliverable, Section 5.2 establishes the four-special positions of the SD DFar Deliverable, Section 5.2 establishes the four-special positions of the SD DFar Deliverable, Section 5.2 establishes the four-special positions of the SD DFar Deliverable, Sect				with in a complex illinastructure environment.					will be able to meet infrastructure milestones without hinderies		Please reference your updates on
To trustference configuration management. Only 17/2012. Configuration management is ofference of figuration management. Only 17/2012. Configuration management is ofference of figuration management in the configuration management is ofference of figuration management. Only 17/2012. Configuration management is ofference ofference of figuration management in the configuration management is ofference of figuration. No. 18/12. The AR I but reported improvement of the configuration management is ofference of figuration management in the configuration management is ofference of figuration. No. 18/12. The AR I but reported improvement of the configuration management is ofference of figuration management in the configuration management is ofference of figuration. No. 18/12. The AR I but report improvement of the configuration management is ofference of figuration management in the configuration management is ofference of figuration. No. 18/12. The AR I but report improvement of the configuration management is ofference of figuration. No. 18/12. The AR I but report improvement of the configuration management is ofference of figuration. No. 18/12. The AR I but report improvement of the configuration management is ofference of figuration. No. 18/12. The AR I but report improvement of the configuration management is ofference of figuration. No. 18/12. The AR I but report improvement of the configuration management is ofference of the configuration management in the configuration management is ofference of the configuration management in the configuration management is ofference of the configuration management is ofference of the configuration management in the configuration management is ofference of the										y f	finding #82 Securit
Instruction was yet to be forcing (s.p., the same part of country and and processing and process									live will not require excessive effort and that achieving the SLAs will be	a	and Privacy which
Instruction was yet to be forcing (s.p., the same part of country and and processing and process									possible. IVV remains concerned that some planned elements of the	d	documents the wo
To indifferent configuration management of the fired production of the fired p									infrastructure have yet to be thoroughly architected, documented, and/or		being done for the
To fourflicter configuration management Part, Michael Prindings - Cook leads the development conductor and development of conductors and development conduct									conceptually tested via proof of concept (e.g., the secure enclave and	S	Secure Enclave.
To fundine configuration management if You, Module if Poding . \$73/2022 Configuration and present of the GOPF in Deliverable, Section 5.2 establishes for formers and processor and procedure that could in part of present and the management in an and office resolution in the Configuration management with DCR. An and the Configuration management in the Configuration management with DCR and the Configuration managem											
could led to development confusion and profession and confusion and confusion for the first confusion and confusion for the first confusion and confusion for the first confus	Insufficient configuration management Fors Michael Finding	8/23/2021 Configuration and	The BLG DDI Plan Deliverable Section 5.2 establishes the framework for the	Configuration Management is a set of processes and procedurer that	OPEN • ASI adhere to plans for configuration management or documented	A SAP	2 2 low	Onen	2/29/24 - No material undate in this reporting period 1/23/24 - No.		
reduce the effectiveness of defect resolution progress has been made toward catabilities (CM) processes and governance, includes the first working and the GMS contractor corrently auxiliaries the Section (CMI). While the Configuration is electing (CMI) on the processes and governance, includes the selecting CMI on the processes and governance, includes the selecting CMI on the processes and governance, includes the selecting CMI on the processes and governance, includes the selecting CMI on the processes and governance, includes the selecting CMI on the selecting CMI on the selecting CMI on the processes and governance, includes the selecting CMI on the selecting CMI on the selecting CMI of th	could lead to development confusion and Risk	Development	Configuration Management Plan, however, it remains unclear if sufficient	ensures the BES is understood and works correctly. The BES solution	in BI-6 DDI Plan. Section 5.2 and clarify details and/or any changes with DH	HS.	LOW	Open	material update in the reporting period. 12/31/23 - The project will utilize		
selecting CM tools (e.g., CMCD), and building out the CMC (infiguration terms or and should provide the project team projects. Security Plans by set to the familiar with an accusate, impairment or discuss that could impact CMC. The project currently related with many include additions. **Remark of the configuration in the county of the configuration in the configuration in the county of the configuration in the county of the configuration in the configuration	reduce the effectiveness of defect resolution		progress has been made toward establishing CM processes and governance	e, includes tools that may provide a level of automation for Configuration	ASI validate plans for configuration management with DHS and agree on a	a			the DHS contractor currently assisting with security activities to update the		10/31/2023 -
requirements of decisions that could impact CM. The project currently requirements of decisions and the could impact to the count grant and a count in provide a detailed list of dense shall be a recluded in the County Training and south Features. The second of the configuration in an impact of the County Training and south Features are also greatly and a reachest of the County Training and south Features. The second of the configuration in an impact of the County Training and south Features. The second of the configuration in an impact of the County Training and south Features. The second of the configuration in an impact of the County Training and south Features. The second of the configuration in the county Training and south Features. The second of the configuration in the county Training and south Features. The second of the configuration in the county Training and south Features. The second of the county Training and the county Training an			selecting CM tools (e.g., CMDB), and building out the CM infrastructure. The	e. Management that may reduce errors and should provide the project team	meaningful set of configuration items or settings they will track. • DHS and	i i			Configuration Management Plan (CMP). The scope of work that the DHS		Vic - We provided
requirements of decisions that coold impact (OM: The project currently release on 60th date for transportation and support of the configuration in management to the COMPLETION above the first provide a detailed less of the configuration in management to the configuration in management to the configuration in management and the configuration management and the configuration in management			projects Security Plan has yet to be finalized which may include additional	with accurate, dynamic and timely information on some of the configuration	ASI work to clarify/solidify plans for the potential use of configuration				contractor is responsible for is unclear to IV&V. 11/30/23 - The ASI has yet	II II	listing, working on
configuration terms, reporting and audit features. configuration management activities and assure defined CM steps and plane are being followed, are effective, and are achieving CHS objectives for CM. The 4th is despitation terms configuration terms being standed but have they ext provide defaulted configuration terms being standed but have the part of configuration terms being the 4th objectives for CM. The 4th is despitation terms configuration terms extended, which the 4th objectives for CM. The 4th is despitation terms configuration terms extended, which the 4th objectives for CM. The 4th objectives fo			requirements or decisions that could impact CM. The project currently	items. However, it is critical that DHS/ASI agree to the full list of items that	management tools, COMPLETED • Identify the DHS POC for the				to provide a detailed list of configuration items to DHS and IVV. IVV has		plan to implement. MF - Broad categor
are boring followed, are effective, and are achieving DHS objectives for CM. All suck and but have yet to provide detailed configuration in management. Provides, which is intended to perform in preparation for Maintenance and Operation (Maintenance and Operation			renes on dithub for tracking of some configurations.	are included in the configuration plan along with the details regarding the	configuration management activities and arrange defined CA above and allow				The ASI provided broad information on the configuration item.	, h	MF - Broad categor Vic - we are working
The ASI has deprint titled some comparation for Mantinena incarpagement activities, which is increased to the Asinches and Comparation for Mantinena incarpagement activities, which are deprinted to the Asinches and Comparation for Mantinena and C				management or the configuration items, reporting and addit restures.							on the details now.
at intends to perform in preparation for March 1974. The All parties PLA The All parti									The ASI has deprioritized some configuration management activities, which	T	This will become n
O.1. 9/28/273 - The ARG parties of the 3' popular of the 3' popular of the 1' popular of the 3' popular of the 3' popular of the 4' popula									it intends to perform in preparation for Maintenance and Operation (M and	i i	important and we
and monitored as part for configuration management, IV/1221 - to material test month and its awarding on the Square MI1/221 - to material statement of the square statement of									O). 9/28/23 - The ASI gained DHS' approval on the items that will be tracked	v	work to get ahead
update. 27,131,23 - No contrastive lupdate. 45,107,28 - No material supdate. 5,131,2023 - The Algoriges with satisfiation of the Servicebre Configuration Management (CA) (201, 201. They have been for Servicebre Configuration Management Of Google Cloud Platform server details into the Servicebre Configuration Management Districts of Google Cloud Platform server details into the Servicebre Configuration Management Districts. *** Confined work. Study in Servicebre, with Configuration Management Districts of Configuration Ma									and monitored as part of configuration management. IVV requested the list	t	the M&O plan.
M/31/2003 — Configuration with the year program size. They have received by the configuration of the program size of the year program size of the year performance and initial import of loggic Closed Finders severe details into the performance and initial import of loggic Closed Finders severe details in the performance and initial import of loggic Closed Finders severe details in the performance and initial importance and initial initial importance and initial initial initial i									last month and is waiting on the ASI to respond. 8/31/23 - No material	1	10/11/2023
ServiceMore Configuration Management (CA) fool. Then, have been executivy performance of configuration in Institution (CA) fool. Then, have been executive performance of the ServiceMore Configuration Management Distriction. *** Confirmed work. ** ServiceMore More Management Distriction of the Service More More Management Distriction and management Distriction of the Service More More Management Distriction of the Service More More More More More More More Mor											men
performmed an initial jumpor of loggie Cloud Flatform server details into the Servicebre College of the Colleg									ServiceNow Configuration Management (CM) tool. They have recent	P	IV&V requested
Service/bow Configuration Management Design Distance. ****Continued work. Service/bow Configuration Management Design Distance. ***Continued work. Annual Configuration									performed an initial import of Google Cloud Platform server details into the		waiting on the ASI
main. Owner thinks still as related to the control of the control									ServiceNow Configuration Management Database. *** Continued work.	r	respond - Plea
main. Owner think still a mile and the still a mile									Setup in ServiceNow, will be building up instances. Ongoing support and	s	see the following
The ASI is currently evaluating which Service Now (XR) modules will be the best if the surface region and for India Service Now (XR) expect and for India Service Now (NR) and India Service Now (NR) and India Service Now (NR) and India Service Now (NR) (NR) and India Service Now (NR) and In									main. Dont' think still a risk, IVV to discuss. 4/30/2023 - The ASI finalized	0	of configuration
best if for the program. Lotals of exactly how the lot is a size of the size o									the ServiceNow (SN) modules they will utilize for the project. 3/31/2023 -	п	management item
the// be using \$\) and the level of configuration management the intent to									The ASI is currently evaluating which Service Now (SN) modules will be the		which are/will
they'll be using SN and the level of configuration management they intend to											managed in
									they'll be using SN and the level of configuration management they intend to perform has yet to be determined. 2/28/2023 - The new ASI intends to		ServiceNow: Incident Response
									utilize ServiceNow (SN) for most configuration management tracking		Change/Configurat
unture services to the control of th									Some Services (34) for most comiguration management tracking.		Management Management

2

HI DHS Monthly IV Status Report Final - February 2024

1		Finding	Identified					A	alyst Finding			7
, ID Title	Reporter	Type	Date Category	Observation	Significance	Recommendation	Event Horizon	Impact Probability P	iority Status	Status Update	Client Comments	Vendor Comments
63 The lack of early planning and coordina	ation Reynolds,	Finding -	1/21/2021 Integration and	The following planning and execution items have not yet been addressed	DDI project often underestimate the time needed to effectively manage all	OPEN 6. Confirm testing dates with interface partners in writing. 7.	Prior to FAT	5 4 H	gh Open	02-29-2024 - The MOU/MOAs were completed and the Interface Control		1
with interface partners may result in	Mark	Issue	Interface	and documented by the ASI Connectivity is planned to utilize a presently	the tasks and activities to successfully implement data sharing. A clearly	Complete early proof of concept interfaces to avoid unexpected delays du	e			Documents (ICD) are updated. The interface testing team did not produce		
schedule delays.			Management	undefined ETS API Gateway; however, there is no evidence that details have	defined communication plan and schedule that includes the coordination,	to external organization miscommunications or their own internal delays	n			the testing plan on February 16th as specified in the draft Go-to-Green plan		10/31/2023 - Good
				been determined or documented in this regard There is little evidence of	planning, and execution activities along with milestone dates can minimize	assisting the BES project. CLOSED 8. ASI and DHS conduct a root cause				01-31-2024 - The final two MOA/MOUs were signed. Interface development		and accurate as of the
				active and sufficient communication with interface partners for	the risk of potential delays. In addition, after planning has been completed,					is behind schedule and will require workarounds when FAT begins. The ASI		end of October.
				coordination, design, and testing activities (Unit Test, SIT, UAT) Interface	interface partners will have to be available during interface implementation					faces challenges with interface partners that lack test environments. The		Met with DoTAX (Cory)
				planning and execution tasks and activities, including those for interface	to ensure that the interfaces are properly developed and tested before	interface partner for the duration of the BES DDI activities. COMPLETED				interface testing team has not scheduled meetings, nor published test plan		to get appendix
				partners, are neither resident nor managed within the Project Schedule.	deploying the system to production.	10/29 2. Identify and document all interface partners' contacts. COMPLET	ED			and schedules to coordinate with the interface partners. 01-04-2024 – Du	e	details. Sent to Scott
						3/31/2022 3. Define a release schedule for each interface to include				to the number of open issues that could potentially impact interface		M. to finalize updates,
						milestone dates, coordination, and execution and share with the interface				development (e.g., incomplete agreements, unavailable test regions, and		then send to AG.
						partners. COMPLETED 01/04 4. Determine which deliverable will include				interface/batch testing schedules yet to be defined) IVV has raised the		DoTAX is one of the
						the details associated with the planned connectivity and detailed technical				criticality rating to High. 11-30-2023 - Two of the 23 MOA/MOUs (DLIR an	nd .	interfaces that will
						designs of all interfaces. COMPLETED 01/04 5. Complete all MOAs and				DoTAX) are not signed and remain outstanding. DHS continues efforts to		overlap SIT. They are
						obtain formal approvals. COMPLETED 01/31/2024				complete these agreements to minimize further impact on the project. This	5	busy in the tax season.
										finding is now an issue due to the realized impact to the project. The SSA		
										interface requires documentation to be submitted 120 days before the		Vic - Rama has
										pilot's data usage. This SSA documentation is expected to be ready by		updates. Pushback
										December 15th, 107 days prior to the April 1st pilot. Although the SSA has		from OIT about sample files.
										informally stated that they can complete the review within the shorter timeframe, a risk exists to the availability of the SSA data. The interface		Rama - set up a batch
										timerrame, a risk exists to the availability of the SSA data. The interrace testing team was organized in November, but planning has not begun and		team for end-to-end
										meetings have not commenced. Interface testing remains unscheduled and		coverage. We met
										meetings have not commenced. Interface testing remains unscheduled and is a growing concern as the Pilot date approaches. The ASI in internally		with Ryan S, and OIT
										reviewing the Interface Test Plan and will share it with DHS in December.	10	about sample files. We
										26-2023 - Two out of 23 MOA/MOU are outstanding; the ASI is reporting a		asked for masked
										agreement was reached with DLIR and it is ready for signature: the DoTAX		PROD files for ease of
										MOU does have some challenges and is currently being addressed by the A		use. Off said no. We
										and DHS. The Functional Design of all 23 Interfaces was completed and	8	are creating a batch
										and bird. The runcoom beargn or all 23 litterfaces was completed and		are creatilg a Datti

3