

STATE OF HAWAI'I | KA MOKU'ĀINA O HAWAI'I DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES | KA 'OIHANA LOIHELU A LAWELAWE LAULĀ

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES | KE'ENA HO'OLANA 'ENEHANA

P.O. BOX 119. HONOLULU. HAWAII 96810-0119

September 4, 2025

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

Aloha Senate President Kouchi, Speaker Nakamura, 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 10 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 Attorney General (AG), Child Enforcement Agency (CSEA).

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

Sincerely,

Christine M. Sakuda Chief Information Officer State of Hawai'i

Attachments (2)



MONTHLY IV&V REVIEW REPORT

July 31, 2025 | Version 1.0





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Document History

DATE	DESCRIPTION	AUTHOR	VERSION
8/11/25	Monthly IV&V Review Report Draft created.	Michelle Muraoka and Dawn Rose	0.0
9/2/25	Monthly IV&V Review Report has been finalized. Comments and responses have been included in Appendix D and incorporated into the report as indicated.	Michelle Muraoka and Dawn Rose	1.0



BACKGROUND

The State of Hawaii (State), Department of Attorney General (AG), Child Support Enforcement Agency (CSEA) contracted Protech Solutions, Inc. (Protech) on October 2, 2023, to replatform the KEIKI System and provide ongoing operations support. Protech has subcontracted One Advanced and DataHouse to perform specific project tasks related to code migration, replatforming services, and testing. The agreement with DataHouse was terminated in February 2025. The Department of AG contracted Accuity LLP (Accuity) to provide Independent Verification and Validation (IV&V) services for the project.

Our initial assessment of project health was provided in the first Monthly IV&V Review Report as of October 31, 2023. Monthly IV&V review reports will be issued through August 2025 and build upon the initial report to continually update and evaluate project progress and performance.

Our IV&V Assessment Areas include People, Process, and Technology. The IV&V Dashboard and IV&V Summary provide a quick visual and narrative snapshot of both the project status and project assessment as of July 31, 2025. Ratings are provided monthly for each IV&V Assessment Area (refer to Appendix A: IV&V Criticality and Severity Ratings). The overall rating is assigned based on the criticality ratings of the IV&V Assessment Categories and the severity ratings of the underlying observations.

FACING CHALLENGES

"Obstacles don't have to stop you. If you run into a wall, don't turn around and give up. Figure out how to climb it, go through it, or work around it."

- Michael Jordan



PROJECT ASSESSMENT

July 2025

SUMMARY RATINGS

OVERALL RATING



Deficiencies were observed that merit attention. Remediation or risk mitigation should be performed in a timely manner.

PFOPLE



PROCESS



TECHNOLOGY



CRITICALITY RATINGS



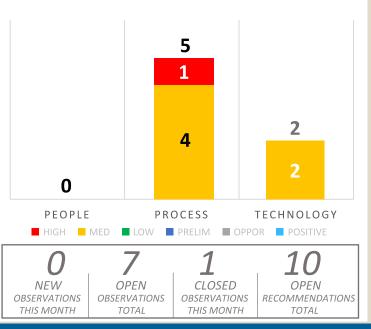


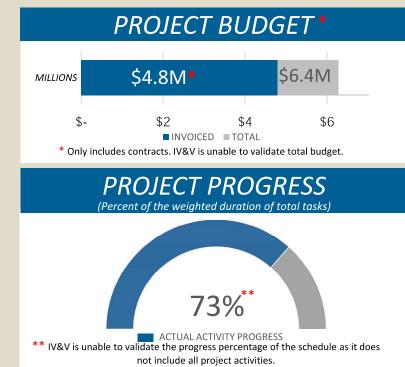






IV&V OBSERVATIONS





KEY PROGRESS & RISKS

Key Progress:

- Batch testing is 94% complete.
- CSEA has received an updated project schedule and is currently reviewing the proposal.
- Check validation printing has been confirmed as successfully tested.
- The defect classification terminology has been updated and accepted. Alignment concerns have been addressed.
- ProTech completed their responses to the SIT review comments. CSEA is working to complete their 2nd round of reviews.
- CSEA accepted the hybrid method for performing data extracts. IV&V still awaiting documented verification.

Key Risks:

- There is an 80-day schedule variance as of July 23rd affecting the critical path requiring escalation and leadership involvement.
- Continued system testing delays due to unresolved defects and untested batch jobs.
- Differences between ADABAS and SQL (KROM) record counts persist.
- A critical defect in NSDDC01J batch job execution is affecting the Precisely API allocation. Testing is currently limited to 10 records.
- There are 40 open tickets including 19 related to performance.
- The prorated method of payment based upon the current approved schedule may reduce accountability and performance incentives.

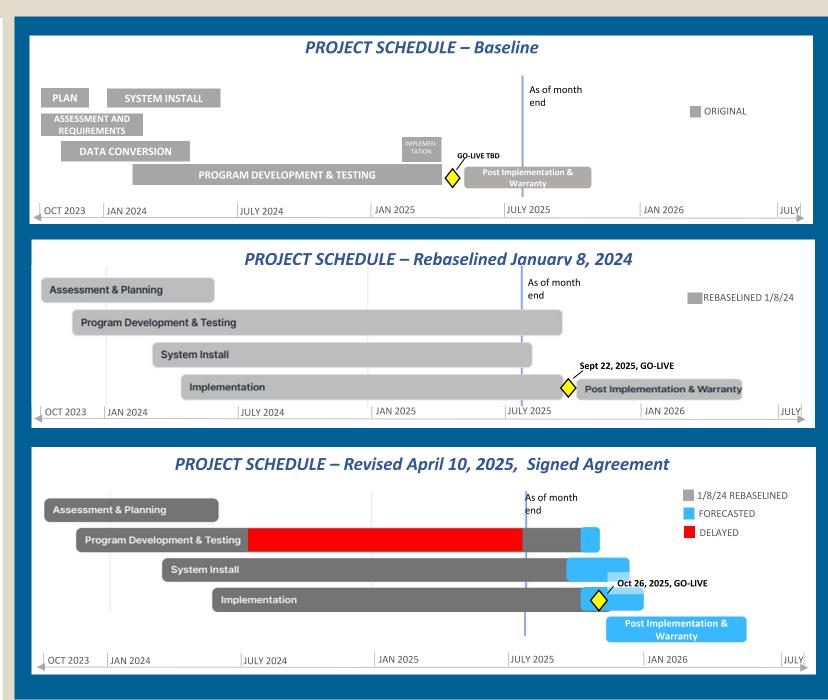
PROJECT SCHEDULE – Current Progress

(See next page for the current agreement and schedule history)



KROM PROJECT SCHEDULE HISTORY

Provided here is a comprehensive view of four timelines: 1. The baseline project schedule set in September 2023. 2. The rebaselined schedule following the approval of the DDI Project Management Plan on January 8, 2024. 3. The current schedule based on the April 10, 2025, no-cost change request.



MAY	JUNE	JULY		MENT IV&V SUMMARY
			AREA	
Y	❖	•	Overall	Project Schedule: The project progress status as of July 23, 2025 remains flat at 73% with a 80-day variance from the baseline schedule reflecting challenges with data discrepancies, batch job testing, and critical system testing defects. The critical path has zero float between the D-21 System Test Results Report approval and the Acceptance Testing start date. SIT testing has exceeded the planned time. An October 26, 2025 'go-live' is unattainable based on the activities and deliverables remaining. While the project schedule has been updated, a formal rebaseline is needed to align the scope, schedule, and cost baselines with the approved changes. ProTech submitted an updated project schedule to rebaseline the timeline; however, CSEA is currently reviewing it and has yet to provide acceptance.
				Project Costs: Contract invoices remain within the total contracted costs. The concern raised last month regarding the current prorated method remains. With the new rebaselined schedule, it will be important to review whether any updates have been made to the <i>payment schedule or timing</i> .
				Quality: CSEA's primary objective is to receive a <i>high-quality</i> solution. To this end, the project members remain aligned to this goal. One of the key indicators is the resolution of all defects prior to exiting System Integration Testing (SIT). For July, there are 40 (up from 37 in June) <i>non-critical defects</i> varying in priority that remain open.
				One of the main focus areas and progress this month- ProTech responding to and providing answers to all the SIT test script comments. ProTech and CSEA met daily to review the responses, and CSEA is in their second round of reviews.
				Challenges, however, persist system integration testing as of July 23, 2025 is at 76% (down from 87% in June) and the system installation phase is at 68% (down from 72% in June). Despite these setbacks, the overall project progress remains unchanged for July.
				Project Success:
				The KEIKI KROM project has continued with forward momentum tackling issues through active collaboration among Protech (DDI), IBM, and CSEA teams. This included successfully completing the check validation printing with the bank. While system testing and data validation challenges remain, proactive retesting, weekly leadership meetings and weekly updates have helped sustain project momentum.
				The project is in yellow status trending downwards due primarily to the schedule slippage in the System Test Phase. While the proposed rebaselined schedule is likely to be accepted, CSEA has not yet approved it. Until formal acceptance occurs, the project will continue to carry elevated risk.

				JOEI 2025 KIKOWI I KOJECI												
MAY	JUNE	JULY	IV&V ASSESSMENT AREA	IV&V SUMMARY												
G	G	G	People Team, Stakeholders, & Culture	The project team has been actively engaged in addressing critical issues and key operational areas. Protech (DDI), IBM, and CSEA continue to work together to effectively resolve issues and close defects. The weekly meeting for the expected end-of-the-month reporting on July 30 th was cancelled due to efforts directed to processing the SIT test script comments. As a result, metrics and performance updates are based primarily on the July 23 rd meeting.												
				Team:												
				The joint leadership team comprised of ProTech's Engagement Manager, CSEA's IT manager, and other key CSEA staff continues to meet weekly to address critical and high priority issues. One issue that was addressed was to provide more visibility into processing of the remainder of the open SIT Test comments. The ProTech lead will prepare a burndown chart to be able to track the remaining comments more effectively. Other topics such as a review of batch performance times and the outstanding tasks needed to be completed to enter UAT were discussed in July. Protech continues to lead project delivery and is actively collaborating with IBM and CSEA teams to resolve defects, finalize system testing, and prepare for UAT IT training. Protech's focus has been on batch execution performance testing, mainframe printing transitions, addressing comments generated from the SIT test scripts, addressing defects through focused retesting cycles, and also updating the project schedule. The Protech (DDI) Test Team is also engaged daily, with status reviews and updates in the testing environment to ensure alignment and progress on defect resolution and system testing deliverables. In ProTech's commitment to support the KROM Project, ProTech also added five more staff to help with the SIT documents review.												
																Stakeholders:
																CSEA remains deeply engaged, with active roles in
				 Validating data extract processes and addressing discrepancies. Reviewing the status and progress of defects and open risk items. Reviewing the responses to the SIT test script comments. Developing content and preparing for the functional staff training. Reviewing the proof of concept and demo for SQL replication within AWS. Reviewing system testing outcomes and participating in weekly status meetings and interface discussions. 												
				Monthly stakeholder meetings include representatives from the State ETS, Department of Labor and Industrial relations and Department of Human Services. These stakeholders also utilize sensitive Federal information and are similarly impacted by the State's ETS mainframe shutdown directive. Notably these other State departments were not present at the July stakeholder meeting. CSEA plans to reach out directly												

to these departments to follow-up on any relevant topics and issues.

MAY	JUNE	JULY	IV&V ASSESSMENT	IV&V SUMMARY	
			AREA		
G	G	G	People	People cont.	
				Team, Stakeholders, & Culture	Culture:
					The project demonstrates a culture of collaboration and communication. As CSEA surfaces questions and issues, ProTech has been responsive in providing clarification, follows up as needed, and arranges additional meetings to ensure that they are fully addressed and resolved.
				The project's People dimension continues to be a green status. All parties continue to demonstrate strong commitment to a shared successful project delivery. CSEA's continued active engagement and oversight have helped to ensure that outcomes stay aligned with their goals.	

MAY	JUNE	JULY	IV&V ASSESSMEN [*] AREA	Γ IV&V SUMMARY
Y	•	•	Process Approach & Execution	Process: The project team focused on responding and reviewing SIT test script comments, closing out system testing defects, refining batch job performance, and preparing for UAT. Schedule alignment remains a primary issue-with an 80-day variance and zero float in the critical path. Many tasks, activities, and deliverables are misaligned or unattainable due to the outdated baseline. In response, the team is actively working to update and realign the schedule to reflect the remaining tasks and outstanding deliverables.
				1) In June, a new observation was opened regarding the classification of defects. IV&V reported that the new classification differed from the System Test plan. To address this, an alignment meeting was held between ProTech and CSEA. As a result, deliverable 10: Acceptance Test Plan was updated on July 25, 2025 to specify how defects designated as 'critical' priority and 'highest' severity should be managed. This clarification reflects project management best practices and is expected to reduce ambiguity during User Acceptance Testing (UAT) and support a smoother transition to go-live. Furthermore, with this update, the recommendations provided in 2025.06.001.R1 have either been adopted or addressed. Therefore, this observation is now considered closed.
				2) Last month's previous comment regarding prorated payments to ProTech is based on an outdated schedule remains unresolved. Given the project's 80-day delay, rebaselining is needed-not only to update the timeline, but also to realign the payment schedule. This adjustment would help to provide accountability and financial incentive tied to actual progress.
				Approach: The team is following a milestone-driven approach, prioritizing defect closure and addressing performance issues. Protech's approach includes daily status reviews and testing cycles to validate data and system performance. However, as the schedule progresses, the lack of formal rebaseline limits the effectiveness of this approach in aligning stakeholders and providing adequate notification for future resource scheduling.
				Execution: Some of the key project metrics include overall project completion, phase completion and deliverable completion percentages. The process for <i>reporting significant percent completion changes</i> remains unclear. During recent meetings, IV&V observed a drop in both the system integration testing and the overall SIT phase completion percentages. The reasons for this reversal were not clear. This highlights the need for greater rigor in reporting execution. To improve clarity, significant changes impacting the schedule should be explicitly identified whether verbally during meetings or documented in the existing written report. Also, the written report update is provided as it is presented. Without having changes clearly stated, it is difficult for attendees to ask questions without a frame of reference. Providing the hard copy report in advance and explicitly stating (verbally or in writing) significant schedule changes and the reason why will provide more clarity to attendees so they can determine how the project or they may be impacted.
				A prior observation recommended the use of a dashboard that provides clear oversight of testing activities so they can be tracked and or reviewed by CSEA. IV&V will continue to monitor how effective CSEA's access to Jira including its real-time dashboard and database to assess whether this tools is delivering the expected visibility and usefulness for tracking and reviewing.

MAY	JUNE	JULY	IV&V ASSESSMENT AREA	IV&V SUMMARY
MAY	JUNE	JULY		Process Cont. Thus, from a process and execution standpoint, the yellow project status reflects ongoing challenges in communication, transparency, and schedule alignment. While technical progress is being made, the supporting processes—particularly around reporting, payment, and schedule management—require attention and improvement to ensure alignment and successful project completion.

				JULY 2025 · KROIVI PROJECT
MAY	JUNE	JULY	IV&V ASSESSMENT AREA	IV&V SUMMARY
①	Y	Y	Technology System, Data, & Security	As of July 23, 2025, the KEIKI KROM project continues to progress through System Integration Testing and defect remediation, with infrastructure and testing deliverables actively in development. The System Installation Phase is reported at 68% complete, down from 72% in June following a schedule recalibration initiated by ProTech in coordination with CSEA as presented in the July 23rd status meeting. Testing is ongoing under KEIKI code version 1.0.0.35, with dependencies remaining unresolved in printing, performance validation, and SIT comment disposition.
				System: As of the end of July, Batch testing iteration #6 (performance testing) is at 83% completion. Keiki Mainframe Printing is at 40% completion. System Integration Testing (SIT) Iteration 2 is reported at 97% complete as of July 23 rd . The Bridge Program for Address Normalization is at 91% completion, with integration tasks such as API processing and error handling marked fully complete. Keiki Online Printing is listed at 90% completion, and check validation printing is fully complete at 100%, while the Keiki Batch Print Manager testing sits at 85%. The system test results report remains at 0% completion and is a gating item for UAT. Acceptance testing preparation sits at 78%. Batch validation testing and refined UI online testing continue in version v1.0.0.35. SIT script reexecution and resolution of 1,450 logged comments are ongoing, 1,264 accepted by CSEA (87.2%) and 186 (12.8%) pending review. As of July 31, 2025, defect data from JIRA shows 1,204 active/open defects, including 19 high <i>or</i> highest priority items. Of these, five performance-related batch defects remain open, including issues in OCSE157, State Tax Offset, and AP Bill processing. CSEA and ProTech have initiated draft risk language around performance and expect completion in early August.
				Data: The hybrid extract method continues to support data validation and conversion testing, with ASCII-to-EBCDIC conversions confirmed as successful by CSEA. Some data inconsistencies remain, particularly with DHS files that contain packed fields and negative value formatting issues, and with output mismatches observed between legacy and KROM environments. The non-hybrid extract method, originally scheduled for validation in August 2024, has not yet been executed, and 19 batch jobs are still under review for performance issues that exceed legacy run-time thresholds.
				Security: The project completed its most recent Nessus vulnerability scan on July 9, 2025, with all previously identified issues remediated and no new vulnerabilities reported. Testing of address normalization using the Precisely API is currently limited to 10-record samples due to licensing constraints, which are documented in the RAID log and remain unresolved. The Disaster Recovery Plan (Deliverable #9) is 84% complete, with scenario execution pending and final approval currently targeted for August 22, 2025.
				The Technology status remains yellow. Technical progress is evident. However, several critical dependencies remain open, most notably in system testing deliverables, performance tuning, printing readiness, and data conversion which are delaying full preparation for UAT entry.

Appendix A: IV&V Criticality and Severity Ratings

IV&V CRITICALITY AND SEVERITY RATINGS

Criticality and severity ratings provide insight on where significant deficiencies are observed, and immediate remediation or risk mitigation is required. Criticality ratings are assigned to the overall project as well as each IV&V Assessment Area. Severity ratings are assigned to each risk or issue identified.

TERMS

RISK

An event that has not happened yet.

ISSUE

An event that is already occurring or has already happened.

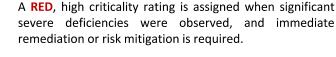
Criticality Rating

The criticality ratings are assessed based on consideration of the severity ratings of each related risk and issue within the respective IV&V Assessment Area, the overall impact of the related observations to the success of the project, and the urgency of and length of time to implement remediation or risk mitigation strategies. Arrows indicate trends in the project assessment from the prior report and take into consideration areas of increasing risk and approaching timeline. Up arrows indicate adequate improvements or progress made. Down arrows indicate a decline, inadequate progress, or incomplete resolution of previously identified observations. No arrow indicates there was neither improving nor declining progress from the prior report.







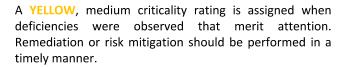


















A GREEN, low criticality rating is assigned when the activity is on track and minimal deficiencies were observed. Some oversight may be needed to ensure the risk stays low and the activity remains on track.



A GRAY rating is assigned when the category being assessed has incomplete information available for a conclusive observation and recommendation or is not applicable at the time of the IV&V review.



Severity Rating

Once risks are identified and characterized, Accuity will examine project conditions to determine the probability of the risk being identified and the impact to the project, if the risk is realized. We know that a risk is in the future, so we must provide the probability and impact to determine if the risk has a Risk Severity, such as Severity 1 (High), Severity 2 (Moderate), or Severity 3 (Low).

While a risk is an event that has not happened yet, an issue is something that is already occurring or has already happened. Accuity will examine project conditions and business impact to determine if the issue has an Issue Severity, such as Severity 1 (High/Critical Impact/System Down), Severity 2 (Moderate/ Significant Impact), or Severity 3 (Low/Normal/Minor Impact/ Informational).

Observations that are positive, preliminary concerns, or opportunities are not assigned a severity rating.



SEVERITY 1: High/Critical level



SEVERITY 2: Moderate level



SEVERITY 3: Low level



POSITIVE

Celebrates high performance or project successes.

PRELIMINARY CONCERN

Potential risk requiring further analysis.



Appendix B: Industry Standards and Best Practices

STANDARD	DESCRIPTION
ADA	Americans with Disabilities Act
ADKAR®	Prosci ADKAR: Awareness, Desire, Knowledge, Ability, and Reinforcement
BABOK® v3	Business Analyst Body of Knowledge
DAMA-DMBOK® v2	DAMA International's Guide to the Data Management Body of Knowledge
PMBOK® v7	Project Management Institute (PMI) Project Management Body of Knowledge
SPM	PMI The Standard for Project Management
PROSCI ADKAR®	Leading organization providing research, methodology, and tools on change management practices
SWEBOK v3	Guide to the Software Engineering Body of Knowledge
IEEE 828-2012	Institute of Electrical and Electronics Engineers (IEEE) Standard for Configuration Management in Systems and Software Engineering
IEEE 1062-2015	IEEE Recommended Practice for Software Acquisition
IEEE 1012-2016	IEEE Standard for System, Software, and Hardware Verification and Validation
IEEE 730-2014	IEEE Standard for Software Quality Assurance Processes
ISO 9001:2015	International Organization for Standardization (ISO) Quality Management Systems – Requirements
ISO/IEC 25010:2011	ISO/International Electrotechnical Commission (IEC) Systems and Software Engineering – Systems and Software Quality Requirements and Evaluation (SQuaRE) – System and Software Quality Models
ISO/IEC 16085:2021	ISO/IEC Systems and Software Engineering – Life Cycle Processes – Risk Management
IEEE 16326-2019	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Project Management
IEEE 29148-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Requirements Engineering

STANDARD	DESCRIPTION
IEEE 15288-2023	ISO/IEC/IEEE International Standard – Systems and Software Engineering – System Life Cycle Processes
IEEE 12207-2017	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Software Life Cycle Processes
IEEE 24748-1-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Management – Part 1: Guidelines for Life Cycle Management
IEEE 24748-2-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Management – Part 2: Guidelines for the Application of ISO/IEC/IEEE 15288 (System Life Cycle Processes)
IEEE 24748-3-2020	IEEE Guide: Adoption of ISO/IEC TR 24748-3:2011, Systems and Software Engineering – Life Cycle Management – Part 3: Guide to the Application of ISO/IEC 12207 (Software Life Cycle Processes)
IEEE 14764-2021	ISO/IEC/IEEE International Standard for Software Engineering – Software Life Cycle Processes – Maintenance
IEEE 15289-2019	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Content of Life Cycle Information Items (Documentation)
IEEE 24765-2017	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Vocabulary
IEEE 26511-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Requirements for Managers of Information for Users of Systems, Software, and Services
IEEE 23026-2015	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Engineering and Management of Websites for Systems, Software, and Services Information
IEEE 29119-1-2021	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 1: Concepts and Definitions
IEEE 29119-2-2021	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 2: Test Processes
IEEE 29119-3-2021	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 3: Test Documentation
IEEE 29119-4-2021	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 4: Test Techniques
IEEE 1484.13.1-2012	IEEE Standard for Learning Technology – Conceptual Model for Resource Aggregation for Learning, Education, and Training
ISO/IEC TR 20000-11:2021	ISO/IEC Information Technology – Service Management – Part 11: Guidance on the Relationship Between ISO/IEC 20000-1:2011 and Service Management Frameworks: ITIL®
ISO/IEC 27002:2022	Information Technology – Security Techniques – Code of Practice for Information Security Controls

STANDARD	DESCRIPTION
FIPS 199	Federal Information Processing Standard (FIPS) Publication 199, Standards for Security Categorization of Federal Information and Information Systems
FIPS 200	FIPS Publication 200, Minimum Security Requirements for Federal Information and Information Systems
NIST 800-53 Rev 5	National Institute of Standards and Technology (NIST) Security and Privacy Controls for Federal Information Systems and Organizations
NIST Cybersecurity Framework v1.1	NIST Framework for Improving Critical Infrastructure Cybersecurity
LSS	Lean Six Sigma

Appendix C: Prior Findings Log



COFFCOAFAIT ORCEDIVATION	DICINAL DUCK	FAIT.	INDUSTRY CTANDARDS AND				
	EVERITY SEVE	RITY OBSERVATION	BEST PRACTICES ANALYSIS	RECOMMENDATIONS	STATUS STATUS UPDATE	CLOSED DATE	CLOSURE REASON
REA ID TYPE S	RIGINAL CURI EVERITY SEVENTY Moderate Mod	RITY OBSERVATION Non-critical tasks are being tracked alongside critical ones, diluting focus and potentially straining resources. Financial Test Deck (FTD)	SPM (The Standard for Project Tracking non-critical tasks alongside critical ones is straining resources and	(2024.12.004.R1) Focus on critical path tasks, prioritize defecting, resolution in FTD and interface batch jobs, and deprioritize non-	Open the completion of the defect classification process has been addressed and resolved. Despite the completion of the		CLOSURE REASON

SESSMENT OF	BSERVATION	TVDE		CURRENT	OBSERVATION	INDUSTRY STANDARDS AND	ANALYSIS	RECOMMENDATIONS	CTATUS	CTATUS LIDDATE	CIOCED DATE	OSURE REASON
cess 20	024.12.005	Rick		Moderate	Testing metrics from weekly reports show varying levels of	BEST PRACTICES		(2024.12.06.R1) Establish Progress Monitoring and Reporting:		STATUS UPDATE 2025/07/31: The weekly July 30th meeting was cancelled and as a result, testing and	CLOSED DATE CL	USURE REASON
, CC33	024.12.003	Mak	Moderate	Wioderate	progress, with areas like enforcement batch validation at only 21%		batch validation, indicate gaps in tracking and reporting that hinder effective		Open	project progress was based upon the July 23rd update. Jira's real-time dashboard		
					coverage.	checkpoints for effective	oversight. Implementing a real-time dashboard, as recommended by IEEE	rates, defect closure, and coverage metrics. This provides		provides insight primarily into the defect tickets which increased in July to 40. IV&V notes		
					The risk log shows Issue #47: Data extraction delays highlight the		1012-2016, will provide actionable insights to prioritize resources and	actionable insights for targeting resources and resolving delays		that there were declines in system integration testing and the overall system installation		
					need for improved progress tracking and reporting.	oversigne.	address delays efficiently.	more efficiently.		phase. It is not clear based upon the status reports and accessing Jira's system why the		
					need for improved progress tracking and reporting.		address delays emoleray.	more emelenay.		reversal in reporting progress. Further clarification and/or modifying the current status		
										reports may be needed so scheduling, resourcing, and level of effort impact can be		
										determined.		
										determined.		
										2025/06/30: A testing report was not included in the June 26, 2025 weekly status		
										meeting. It was unclear to CSEA as to the reclassification, reprioritization and handling of		
										the remaining eight critical tickets. In a special meeting to review the eight critical Jira		
										tickets, ProTech reviewed the internal documentation in Jira, which included the work		
										performed, root cause analysis, screen shots of the results, and notes including the		
										updated ticket status. IV&V confirmed that two members of the CSEA leadership team		
										currently have access to Jira. However, due to ongoing testing delays and challenges,		
										IV&V will continue to monitor this recommendation of test execution reporting as it		
										supports overall testing progress.		
										supports overall testing progress.		
										2025/05/30: The weekly status reports and test status updates did not contain any		
										evidence of final clarification or resolution of the discrepancies in defect retest counts		
										across system testing. As such, there is no indication that these inconsistencies have beer		
										fully addressed or resolved, meaning this observation must remain open for continued		
										monitoring and action.		
										2025/04/30: In April Protech (DDI) fully stood up and transitioned all testing activities and		
										ownership of the AWS environment for the KROM project. While the team is now using a		
										testing dashboard in Jira which is transparent, the Deliverable D-21 (System Test Results		
										Report) is at 25% completion and defect traceability and test closure are not finalized.		
										Report) is at 25% completion and defect traceability and test closure are not initialized.		
										2025/03/31: Throughout March, risk and issue tracking improved through targeted		
										updates in the IV&V reports and touchpoint confirmations; however, the RAID log		
										content was not consistently cited in weekly status reports. While IV&V validated the		
										active status of several key risks (e.g., Risk #89 related to data validation and Risk #112		
										concerning test execution continuity), these risks were primarily referenced through		
		1	1	1					1	summary narratives, not as direct log item linkages. The most recent RAID log submitted		
		1	1							in March lists several active risks not fully integrated into status reports, suggesting this		
		1	1							observation should remain open until cross-referencing practices between RAID logs and		
		1	1							weekly reporting are standardized. 2025/02/28: While testing reports did show		
		1	1							improvement in February, IV&V will continue to monitor the clarity of the weekly testing		
										reports citing the transition of testing responsibilities to Protech. In order to placemark		
		1	1							test reporting progress and clarity, the percentage of testing per testing stream is as of		
		1	1							02/19/2025,		
		1	1							- Financial Test Deck (FTD): 75% complete (18 scenarios passed, 6 active).		
		1	1							- System Integration Testing (SIT) Execution: 82% complete (78 out of 95 test scripts		
		1	1							executed).		
		1	1							- Batch Job Testing: 38% validated (improving from previous months, but still below		
		1	1							required levels).		
		1	1							- Refined UI Testing: 90% complete (410 screens tested, 41 failed cases awaiting defect		
		1	1	1					1	resolution).		
		1	1							IV&V will continue to monitor test reporting clarity through the transition to Protech		
										testing oversight.		
										2025/01/31: Ongoing challenges related to resource constraints and finalizing validation		
		1	1									
		1	1							efforts require continued monitoring to ensure full implementation and long-term stability.		
		1	1							stability.		
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ASSESSMENT OBSERVAT	TYPE		GINAL CURRENT ERITY SEVERITY		INDUSTRY STANDARDS AND BEST PRACTICES	ANALYSIS	RECOMMENDATIONS	STATUS STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Process 2024.12.0	006 Risk	K Mo	derate Modera	te Some lower-priority testing, such as reporting subsystem batch jobs, reflects 0% progress.		Delays in non-critical tasks, such as reporting subsystem batch jobs with 0% progress, highlight the need to reallocate resources to critical testing activities. By deprioritizing these areas and requesting extensions, as supported by PMBOK* v7, the project can focus on achieving timely completion of high-priority deliverables such as KMS Go Live.	[2024.12.07.R1] Request Extension for Non-Critical Deliverables: Deprioritize non-critical testing areas and request extensions for their delivery for callocate focus to critical testing. To ensure timely completion of high-priority deliverables such as KMS Go Live.			
								2025/06/30: The remaining open tickets have been reclassified with assigned levels (by ProTech) for priority and criticality. Tickets requiring assistance from IBM are forwarded. It appears that all of the remaining 37 open tickets are being actively worked upon as the goal for ProTech is to have no open tickets to exit SIT. The recommendation is still applicable and IV&V will continue to monitor the defects management process.		
								2025/05/30: May project updates did not provide explicit evidence of closure for lower- priority testing tasks, such as reporting updates and document finalization. These activities remain open and require focused attention to complete supporting documentation.		
								2025/04/30: The incomplete state (25%) of D-21 (System Testing Report) as of April 30 further supports keeping Observation 2024.12.006 open. The delays are not isolated to minor reports, they affect key transition documentation necessary for testing and cutover. This document is essential for closing out system testing, gating acceptance testing start, and meeting stakeholder validation requirements.		
								2025/03/31: In March, the project team communicated and aligned on a revised Go-Live date of November 11, 2025, extending the overall timeline to accommodate continued validation activities, including batch outputs and reporting. While a formal extension request specific to non-critical test items was not documented, the extended schedule and associated updates reflect a de facto approval for additional testing time. This schedule shift has enabled continued work on lower-priority validations, effectively meeting the recommendation's intent. This item may be considered for closure, contingent upon confirmation that remaining report testing is included in the updated cutover and UAT planning. Closure will also be contingent upon Protech completing the activities in the transition SOW for CSEA to review and provide approval in order to formalize the schedule.		
								2025/02/28. In February the testing teams have prioritized System Integration Testing (SIT) and Financial Deck Testing (FID) execution, delaying non-essential batch jobs to mitigate schedule risks. A formal extension request is in discussion to defer lower priorit deliverables like reporting subsystem batch jobs, ensuring resource alignment with critical milestones. IV&V will continue to monitor the outcome of the discussions.		
								2025/01/31: Continued progress in refining data management processes and enhancing coordination among key stakeholders. However, persistent challenges in ensuring data accuracy and resolving inconsistencies require further validation efforts and ongoing oversight to achieve full resolution.		
Process 2024.12.0	007 Risk	c Ma	derate Modera	te Risks related to dependencies, resource availability, and stakeholder approvals are not explicitly mitigated in the schedu Weekly reports highlight an increasing trend in defects, with 48 defects logged as of December 18, 2024.	le. risk management as a critical	The increasing trend in logged defects (480 as of December 18, 2024) and unmitigated risk related to dependencies and resource availability emphasize critical gaps in risk management. Enhancing the risk mitigation plan, as recommended by Is/ORIC 16085.2021, will address recurring issue land defect-prone areas like financials and interfaces, reducing the likelihood of further delays.	(2024.12.08.R1) Further enhance the risk mitigation plan targeting defect-prone areas usu as financials and enforcement systems, proactively reducing the likelihood of additional delays caused by recurring issues.	Open 2025/07/31: There is currently an increased 80-day variance and the open defect tickets have increased to 40. While ProTech has demonstrated adequate documentation of defects/tickets, the current schedule does not sufficiently address risks related to dependencies, resource availability, and stakeholder approvals. The project is currently undergoing rebaselining, and IV&V has not yet received, reviewed, or confirmed whether the revised schedule includes a comprehensive risk mitigation strategy. IV&V will provide an update once the revised schedule has been accepted (by CSEA), received and reviewed.		
								2025/06/30: The project schedule has a 69-day variance and there are still 37 open defect cickets remaining. Staff resourcing, condination, and stakeholder approvals are areas of high risk. The risk mitigation plan is not tightly integrated with a current or realistic project schedule. IV&V will continue to monitor this observation.		
								2025/05/30: The weekly status and testing reports continue to document an upward trend in total logged detects, reaching 430 as of late May. This reinforces ongoing risks to schedule alignment and stakeholder confidence if defect closure efforts are not prioritized.		
								2025/04/30: Compilance and Penetration Testing tasks, dependencies and resource availability remain unassigned as of April 30. 2025/03/31: In March, risk awareness remained a core focus across IV&V and stakeholde		
								reporting, with specific emphasis on transition readiness, batch data quality, and cutover planning risks. Active risks such as Risk #89 (data extraction) and Risk #112 (testing transition) were tracked through status reports and IV&V analysis, and the March RAID log reflected five open risks aligned with ongoing project concerns. However, RAID log integration into weekly reports was still partial, with risk into occonsistently cited in narrative updates. As such, this observation should remain open, pending full and consistent mapping of RAID risks into weekly reporting artifacts and stakeholder communications.		

SSESSMENT OBSERVATION TYPE	ORIGINAL CURRENT SEVERITY SEVERITY	ORSERVATION	INDUSTRY STANDARDS AND BEST PRACTICES	ANALYSIS	RECOMMENDATIONS	STATUS STATUS UPDATE	CLOSED DATE	CLOSURE REASON
JU III'E	SEVERITY SEVERITY	SIGNATURE	THE TRACTICES	NATIONAL AND ADDRESS OF THE PARTY OF THE PAR	The state of the s	2025/02/38: In February, risk management processes remain active, with ongoing monitoring of resource allocation, batch job validation, and interface file resolution. Several risks remain open, including data extraction delays, defect resolution issues, and resource constraints. Additional verification and sustained monitoring are needed to ensure risk mitigation strategies are fully implemented before closure. 2025/01/31: Risk mitigation efforts, including strengthened collaboration between teams to address system integration challenges and resolve key technical issues improved in January. However, some dependencies remain unresolved, necessitating additional testing and validation to fully mitigate potential risks before implementation.		COURT RESUR
rocess 2023.10.002 Risk	Moderate High	ensure project success and minimize cutover risks, reopening these findings and implementing corrective actions are advised. Dependencies such as task 593 for "KMS: Acceptance Test Scripts Development Complete" remain unfulfilled. Weekly reports identify unresolved data file dependencies and incorrect file formats (e.g., GGG issues in batch jobs), further delaying progress. Limear task sequencing contributes to delays where tasks could feasibly run in parallel (e.g., compliance and database migration). Financials have 0% validation coverage in the refined UI, highlighting the backlog. REOPENED - May 2025 The May 2025 project schedule continues to show a 54-day	resource optimization as part of the "Resource Management" domain. Aligning resource capacity with demand ensures timely task completion. Performance Domain: Stakeholder – emphasizes maintaining active engagement and	CSEA's KEIKI system currently relies on a legacy cyberfusion system running on the State's mainframe for system file and data exchanges with multiple State of Hawaiia ganeties. The timing of multiple agencies moving off the mainframe at different times will result in the need to modify KEIKI system interfaces after the system has been deployed. Until other State modernization projects are completed, the KEIKI project cannot perform server-based data exchanges and will need to continue to interface via the mainframe. In addition, as the KEIKI project involves integrating a modernized child support system with existing legacy systems, there may be other technological and architectural gaps that arise. These gaps can include differences in technology stacks, such as programming languages, database systems, and operating environments, as well as the absence of modern application programming interfaces (APIs) in the legacy systems. Based on the timing of concurrent State of Hawaii modernization projects and upgrades, the end-to-end testing of the KEIKI system may necessitate the undertaking of supplementary tasks, allocation of additional resources, and coordination efforts.	address schedule concerns. - Develop a detailed plan with assigned resources to complete project tasks. - Provide the appropriate detail of tasks, durations, due dates, milestones, and key work products for various parties. CSEA assigned tasks should also be clearly reflected in the project schedule. - Obtain agreement on the baseline schedule and then hold parties accountable for tasks and deadlines. - REOPENED: 2023.10.002.R2 — Determine the root causes of delays and develop plans to address them. - Perform a root cause analysis including defining the problem, brainstorming possible causes, and developing a plan to address the root cause of the problem such as resource constraints dependencies, and undefined tasks. Assess potential opportunities for parallelizing workstreams and efforts. - Based on the experience of the last two months, create a realisits chedule based on the time and resources needed to perform tasks.	ed variance. Verfied that deliverables include supporting tasks related to when the submission and approval for the deliverables will occur. However, many of these dates are stale and need to be updated. CSEA has received an updated project schedule from ProTech. This revised schedule has not yet been approved by CSEA, nor reviewed by IV8V. Thus, confirmation of whether it includes the appropriate level of detail regarding the remaining task assignments, durations, milestones, and deliverables remains to be verified. 2025/07/31:2023.10.002.R2-Root cause analysis is being performed on open defect tickets, and various schedule delay priorities are being discussed, triaged to determine appropriate mitigation strategies and decisions assigned for follow-up action. Depite these efforts, the recommendation to have a current realistic schedule based on the time and resources needed to perform tasks remains outstanding. An updated schedule was received by CSEA, however, IV8V has not ver reviewed or verified whether it reflects a comprehensive approach to addressing the remaining open tasks, deliverables, defects, resource allocations with attainable timelines. IV8V will provide an update once the schedule has been accepted (by CSEA) and reviewed.	Original Close: 2024/05/31 Reopened: 2023.10.002.R2 2024/12/24 Reopened: 2023.10.002.R1 and 2023.10.002.R1 and 2023.10.002.R4 2023/50/30 Closed: 2023.10.002.R4 2025/06/30	Original Closure Note: Closed as the project managers are working more collaboratively to share and execute project responsibilities.
		variance from the baseline, with no formal rebaseline in place to reflect ongoing challenges. This delay is primarily driven by unresolved critical system testing defects, persistent data extract discrepancies, and performance tuning issues in key batch jobs. The lack of a formal schedule rebaseline or update further elevate the risk of downstream impacts on UAT readiness and stakeholder confidence. The CSEA Project Manager has exited the project with CSEA Project Leadership providing interim coverage. The project at the end of May was experiencing a 54 day variance with zero float in the critical patch. Related RAID Log Action Items have not been reassigned to interim coverage owners.	incorporate decision-making frameworks, ensuring that governance and planning activities are fully s synchronized for project success. ISO/IEC 16085:2021 recommends proactive risk t management to identify areas where concurrent task execution mitigates schedule risks.	REOPENED-May 2025 Schedule Variance: This delay is primarily driven by unresolved critical system testing defects, persistent data extract discrepancies, and performance tuning issues in key batch jobs. The lack of a formal schedule rebaseline or update further elevates the risk of downstream impacts on UAT readiness and stakeholder confidence. Project Management Interim Coverage: The departure of the CSEA Project Manager in May has introduced an immediate need for documented interim project management coverage to maintain project governance continuity. While CSEA project leads have assuander esponsibility in the short term, the lack of a formalized approach leaves potential gaps in accountability, risk tracking, and decision-making. Ensuring that interim coverage roles are clearly defined and integrated into overall project governance will reduce risks of miscommunication and schedule misalignment. The details of these governance alignments should be dearly communicated to		2025/06/30: 2023.10.002.R1- The project schedule delay has increased to a 69-day variance. While ProTech has shown the performance of roct cause analysis, and documented problem solving solutions including screen shots, the schedule is still outdated and does not adequately reflect the current changes and remaining open tasks. ProTech has proposed to update the project schedule after the issues and defects have been resolved and have exited the STI phase. ProTech continues to actively work on the 37 remaining open defects and batch load testing. The schedule is at risk and recommendations remain current. 2025/06/30: 2023.10.002.R2- Upon reviewing internal Jira documentation on testing, ProTech is performing root cause analysis, output(s) include screen shots, and testing notes on open tickets. The current schedule does not appear to reflect the timing of testing completion or the resolution of open activities. INSW will continue to monitor.		
				governance angiments and assignments should be clearly communicated to stakeholders and reflected in project documentation.		2025/06/30: 2023.10.002.R4-CSEA leadership and ProTech have jointly addressed the gap left by the temporary departure of the CSEA Project Manager. This was conveyed both in written and verbal communications. This recommendation has been addressed and is now Closed. 2025/05/30: The temporary leave of absence of the CSEA Project Manager which is now being covered by the CSEA project leads furthers the need to update governance and decision frameworks to document and formalize the roles of interim CSEA project leads covering the CSEA s' Project Management responsibilities. This will ensure accountability, maintain stakeholder alignment and reduce the risk of gaps in project oversight and consistency. This would be an opportune time to access the root causes driving schedule delays and work with Project to align an agreed schedule in order to eliminate further cascading delays in the project golive date, which is experiencing a S4 day variance from the baseline schedule as of May 30, 2025. Project governance documents, (e.g. RAID Log should be reviewed and assigned to appropriate action owners. Communications should be drafted to all project stakeholders in order to align them to the appropriate interim project manager with area of oversight responsibility.		

SSESSMENT OBSERVATION	_		CURRENT	INDUSTRY STANDARDS AND				
REA ID TYPE	E S	SEVERITY	SEVERITY OBSERVATION	BEST PRACTICES ANALYSIS	RECOMMENDATIONS STATE	JS STATUS UPDATE 2025/04/30: The root causes driving schedule delays, such as lack of resource clarity,	CLOSED DATE	CLOSURE REASON
						overlapping dependencies, and unscheduled support tasks, remain visible in April. While		
						the project team responded to delays with schedule updates (PCR-3) and completed SIT		
						Iteration 2, the conditions that led to earlier delays have not been systematically		
						mitigated. The continued shifting of the estimated Go-Live date beyond PCR-3's approve		
						timeline further supports the observation that a durable resolution has not yet been		
						realized. IV&V also notes that the critical path from Deliverable D-21 approval to		
						Acceptance Testing start remains under pressure, with zero float, increasing the		
						likelihood of cascading delays if unresolved tasks are not completed promptly. IV&V		
						recommends that the project team consider conducting a root cause analysis and		
						reviewing ownership assignments for critical path readiness tasks, including batch		
						finalization, training, and security preparation, in alignment with PMBOK® v7 guidance or		
						Risk and Resource Management, to reduce the likelihood of further schedule		
						compression.		
						2025/03/31: As of March, project reporting has improved in granularity, with weekly		
						status reports consistently identifying active risks and testing-related blockers, and IV&V		
		ļ				tracking individual RAID log items (e.g., Risks #89 and #112). However, formal distinction		
						between risks, issues, and decisions remains inconsistent across communications,		
						particularly in status reports, where these items are often combined into narrative		
		ļ				summaries without clear labeling. While the March RAID log itself includes structured		
						entries for each category, this observation should remain open until consistent, category		
						specific tagging is incorporated into all reporting streams. In order for CSEA to formally		
						approve the new project schedule, Protech must complete the activities in the transition		
						SOW. Protech needs to schedule a firm delivery date that is acceptable to CSEA with		
						urgency, since the schedule cannot be formally aligned in its absence.		
						2025/02/28: Efforts to parallelize workstreams (2023.10.002.R2-2) are being evaluated,		
						but coordination between Protech and CSEA while underway is facing larger priorities for		
						testing transition. While progress has been made in identifying root causes and adjusting		
						scheduling strategies, this recommendation is requiring a more structured approach to		
						align testing priorities which may end up being addressed in the testing transition plan.		
						IV&V will continue to monitor that progress.		
						2024/02/29: The project schedule does not include all project tasks and is being updated		
						to include more granular-level project activities One recommendation was closed as		
						Protech added additional project management resources.		
chnology 2024.06.001 Risk		Moderate	Moderate There is a risk for delays in the data extraction process, which is		2024.08.001.R1 - Verification of Data Extraction and Conversion Open	2025/07/31: As of July 31, 2025, Risk 2024.06.001 remains open. While improvements in		
	· '	Jucrate	critical for the cutover activities, due to reliance on shared	projections show potential for significant delays. This issue results from	Processes	the data extraction process are evident, full validation of the non-hybrid method has not		
			mainframe resources, inefficiencies in data extraction programs,	reliance on shared mainframe resources, inefficiencies in data extraction	Standard(s): IEEE 1012-2016 Emphasis: Verification ensures	been completed, and the risk of delays impacting cutover remains active. The project has		
			and long download/upload times. This could impact the project by			not met the original July 31 target for validating the SQL replication strategy. However,		
			increasing costs, compromising the quality of the overall solution,	for testing, the entire database must be extracted, which is time-consuming		efforts to improve performance and throughput have yielded measurable results.		
			and causing operational downtime of 4 to 5 days during the	CSEA is evaluating a SQL replication strategy to replace the current proces		Protech implemented table partitioning (e.g., for table F156) and parallel binary loading,		
			cutover weekend, thereby extending the project timeline.	and has assigned two dedicated resources to identify and test this approach		which reduced extraction times for large data sets—specifically lowering some batch load		
			, , , , , , , , , , , , , , , , , , , ,	Daily meetings with DDI and CSEA have been established to collaborate or		durations from 17 hours to under 5 hours. Despite these gains, record count mismatches		
				this issue. The target for validating this approach is July 31st.	subsequent phases of the project to avoid potential issues in	persist between ADABAS and SQL outputs, and additional verification is required.		
				The static data collected from the data extract process projects a worst-ca	later stages. se 2024.08.001.R2 - Validation of Extracted Data Consistency	The project continues to rely on the hybrid extract method, with the non-hybrid strategy		
				scenario of 12 to 36 days to fully extract ADABAS data to the 374 flat files,		still under evaluation. No confirmation has been issued that the non-hybrid method is		
				including downloading and uploading the files. This arises due to: 1) CSEA		viable or production-ready. As of the July reporting period, five performance-related		
1				uses a shared mainframe, 2) inefficiencies of data extraction programs, 3)		defects remain open, primarily linked to batch programs such as OCSE157, State Tax		
				download/upload times. The data extract process is central to the cutover		Offset, and AP Bill processing. These defects further indicate that batch performance		
						under current extract conditions has not yet met legacy expectations.		
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				activities completing over Fri/Sat/Sun. If not improved, CSEA may face 4/5 days operational downtime for cutover weekend.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
				days operational downtime for cutover weekend.	the noted discrepancies, a validation step should be introduced			
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18).	, , , , , , , , , , , , , , , , , , , ,		
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18). This will confirm that the extracted data matches the expected	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18). This will confirm that the extracted data matches the expected output and is usable for further processing.			
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18). This will confirm that the extracted data matches the expected output and is usable for further processing. 2024.08.00.143- Risk Management for Binary and Ascii File	Verification and validation efforts (Recommendations 2024.08.001.R1–R4 under IEEE		
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18). This will confirm that the extracted data matches the expected output and is usable for further processing. 2024.08.001.83 - Risk Management for Binary and Ascii File Handling	Verification and validation efforts (Recommendations 2024.08.001.R1=R4 under IEEE 1012-2016) are partially implemented. ASCII to BCP script verification checkpoints are in		
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18). This will confirm that the extracted data matches the expected output and is usable for further processing. 2024.08.001.43-8 lisk Management for Binary and Ascii File Handling **Standard(s): IEEE 1012-2016 Emphasis: Risk management is	Verification and validation efforts (Recommendations 2024.08.001.R1–R4 under IEEE 1012-2016) are partially implemented. ASCII to BCP script verification checkpoints are in place, and SQL-Lo-SQL data comparisons between CSEA and Protech are ongoing.		
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18). This will confirm that the extracted data matches the expected output and is usable for further processing. 2024.08.001.48. Risk Management for Binary and Ascii File Handling * Standard(s): IEEE 1012-2016 Emphasis: Risk management is integrated into the IVBV process to identify potential risks and	Verification and validation efforts (Recommendations 2024.08.001.R1–R4 under IEEE 1012-2016) are partially implemented. ASCII to BCP script verification checkpoints are in place, and SQL1-to-SQL data comparisons between CSE4 and Protech are ongoing. However, interface-level discrepancies and binary file handling risks remain under review.		
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18). This will confirm that the extracted data matches the expected output and is usable for further processing. 2024.08.00.18.3 - Risk Management for Binary and Ascii File Handling Section 1997. Section 1998. Standard(s): IEEE 1012-2016 Emphasis: Risk management is integrated into the VRAV process to identify potential risks and implement miligation strategies.	Verification and validation efforts (Recommendations 2024.08.001.R1–R4 under IEEE 1012-2016) are partially implemented. ASCII to BCP script verification checkpoints are in place, and SQL-to-SQL data comparisons between CSEA and Protech are ongoing. However, interface-level discrepancies and binary file handling risks remain under review. Additional automated conversion validation, resource planning for extract capacity, and		
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18). This will confirm that the extracted data matches the expected output and is usable for further processing. 2024.08.001.43. Risk Management for Binary and Ascii File Handling * Standard(s): IEEE 1012-2016 Emphasis: Risk management is integrated into the IV&V process to identify potential risks and implement mitigation strategies. On Recommendation: Assess the risks associated with the	Verification and validation efforts (Recommendations 2024.08.001.R1–R4 under IEEE 1012-2016) are partially implemented. ASCII to BCP script verification checkpoints are in place, and SQL-to-SQL data comparisons between CSEA and Protech are ongoing. However, interface-level discrepancies and binary file handling risks remain under review Additional automated conversion validation, resource planning for extract capacity, and file-level error tracking are recommended to further reduce the risk of corruption and		
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18). This will confirm that the extracted data matches the expected output and is usable for further processing. 2024.08.00.1.83 - Risk Management for Binary and Ascii File Handling * Standard(s): IEEE 1012-2016 Emphasis: Risk management is integrated into the IV&V process to identify potential risks and implement mitigation strategies. o Recommendation: Assess the risks associated with the conversion and handling of binary and Ascii files. Discrepancies in	Verification and validation efforts (Recommendations 2024.08.001.R1–R4 under IEEE 1012-2016) are partially implemented. ASCII to BCP script verification checkpoints are in place, and SQL-to-SQL data comparisons between CSEA and Protech are ongoing. However, interface-level discrepancies and binary file handling risks remain under review. Additional automated conversion validation, resource planning for extract capacity, and		
					the noted discrepancies, a validation step should be introduced after each major extraction and conversion task (e.g., Task 18). This will confirm that the extracted data matches the expected output and is usable for further processing. 2024.08.001.43. Risk Management for Binary and Ascii File Handling * Standard(s): IEEE 1012-2016 Emphasis: Risk management is integrated into the IV&V process to identify potential risks and implement mitigation strategies. On Recommendation: Assess the risks associated with the	Verification and validation efforts (Recommendations 2024.08.001.R1–R4 under IEEE 1012-2016) are partially implemented. ASCII to BCP script verification checkpoints are in place, and SQL-to-SQL data comparisons between CSEA and Protech are ongoing. However, interface-level discrepancies and binary file handling risks remain under review Additional automated conversion validation, resource planning for extract capacity, and file-level error tracking are recommended to further reduce the risk of corruption and		

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All the registers of the control of							potential impact to cutover scheduling and system readiness.		
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were first and the state the true months of months of the state of the									
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Administration of the control of the							load times from 17 hours to under 5 hours. Despite this improvement, five open		
Personal control of the control of t							performance-related defects remain, primarily affecting batch processes such as		
200/001. The daywards district of langing grows again control from the control form of							OCSE157, State Tax Offset, and AP Bill processing. IV&V will continue to monitor		
Interest to quantity and particular size of process and process an							progress toward the July target.		
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Interest to quantity and particular size of process and process an							2025/05/30: The May weekly status and testing status undates confirmed that data		
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Common contention of the conte							2025/04/30: In April CSEA and Protech (DDI) continue daily coordination post transition		
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Indicated and the control of the con							related risks remain active. Continued IV&V monitoring is necessary through July to		
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advisementaging that is supringed to the root october and an ELIZATION collection collection and improvement of the collection and improvement							from the February 18 batch cycle, this observation should remain open, with closure		
for conterve will induce that. 2025/00/20 https://doi.org/10/2016/2016/2016/2016/2016/2016/2016/2									
2035/00/28. While progress has been made in referring entraction strategies and implementing solicition of decigiones. An individuous and risk militages have not been withward, and store many transmission that remains allow, deciminate the remains of the contraction of the contr									
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sellowed, and collector risks remains active. Continued RRW monitoring is required to ensure size (regisplation beauting a light production and continued an									
ensure SCL registration testing in validation of the process of th									
registration testing continues (DOSA (BRIGE), with CSS) and DOI holding daily correlination mercings, but windships of the registration band on yet been completed. These continues are continued to the property of the prope						ŀ	acnieved, and cutover risks remain active. Continued IV&V monitoring is required to		
coordination meetings. Live uniforms of the approach has not yet been completed. These statisties will need for serumen with Protestic Verification and visitations steps have interpreted (2003-00.00.01.00.00.00.00.00.00.00.00.00.00.0									
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Verification processes have progressed, with partial implementation of checkpoints for ASCII to BCP script conversions. File counts and conversion accuracy validations are ongoing, resolving discrepancies iteratively to reduce downstream errors. Additional automated checks are required to fully strengthen the verification process.							2024/12/24: (2024.08.001.R1) - Verification of Data Extraction and Conversion Processes:		
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(7074 08 001 R2) - Validation of Extracted Data Consistency									
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SSMENT OBSERVATION	TYPE	ORIGINAL CURRENT	OBSERVATION	INDUSTRY STANDARDS AND BEST PRACTICES	ANALYSIS	RECOMMENDATIONS	STATUS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
	TIPE	SEVERITY SEVERITY	NO. STATE OF THE S	JEST PRACTICES	onne aid	TACLOMINICADATIONS		STATUS UPDATE SOL1-to-SQL comparisons between Protech and CSEA systems have advanced, with validation checkpoints introduced after major extraction tasks. Improvements in data alignment are evident, but interface data discrepancies remain, requiring further validation for end-to-end consistency across systems. Batch validation using September 30 production data demonstrated reduced inconsistencies.	Second Unit.	LUSUKE REASUN
								(2024.08.001.R3) - Risk Management for Binary and ASCII File Handling:		
								Risk assessments for binary and ASCII file conversions have identified critical areas requiring additional testing to mitigate risks of data corruption. Packed binary and date/time field issues have been resolved, but validation of file integrity during conversion phases is still crucial. Proactive error tracking has minimized potential issues during testing phases.		
								[2024.08.001.R4] - Resource Management and Space Availability: Resource assessments and adjustments to mainframe utilization have improved testing efficiency by addressing storage and computational limitations. Contingency plans for storage shortages have been established, ensuring smoother testing and batch processing cycles. Continued focus on resource prioritization is needed to avoid delays in		
								high-demand testing periods.		
								2024/11/27 - (2024.08.001.R1) - Verification of Data Extraction and Conversion Processes Verification processes have been strengthened, particularly for ASCII to BCP script		
								ventraction processes more been stateguened, part action you wall dated during batch validation and regression testing phases, with checkpoints implemented to ensure accuracy before advancing to subsequent phases. Discrepancies if field alignment and conversion accuracy before advancing to subsequent phases. Discrepancies if field alignment and conversion accuracy are being resolved iteratively, reducing downstream errors.		
								(2024.08.001.R2) - Validation of Extracted Data Consistency		
								End-to-end validation has been introduced, including SQL-to-SQL data comparisons between Protech and CSEA systems. Validation checkpoints after major extraction tasks ensure consistency in extracted data outputs.		
								Major improvements in data alignment and reduced inconsistencies, as seen in batch validation using September 30 production data.		
								(2024.08.001.R3) - Risk Management for Binary and ASCII File Handling		
								A detailed risk assessment has been performed for binary and ASCII file conversions, particularly for 27 critical files identified in earlier phases. Additional testing is underway to mitigate risks of data corruption during conversion. Proactive error tracking and resolution are reducing potential issues, with measures in place to validate file counts and integrity during each phase of testing.		
								(2024.08.001.R4) - Resource Management and Space Availability Resource assessments were conducted to ensure adequate storage and computational		
								capacity for extraction and conversion tasks. Contingency plans have been established to address potential storage shortages or computing delays. Resource prioritization and adjustments to mainframe unlitization have minimized space risks and improved processing efficiency for ongoing testing and validation.		
								IV&V will continue to monitor the above recommendations until there is consistent evidence of resolution.		
								2024/10/31 - 2024.08.001.R1 (Verification of Data Extraction and Conversion): Open – in Progress: Verification steps are underway with some checkpoints implemented. Critical issues, like date/time discrepancies, have been resolved. Checkpoints to verify file counts and conversion accuracy have been partially implemented, although more robust, automated checks are still needed.		
								2024.08.001.R2 (Validation of Extracted Data Consistency): Open – Partially Implemented: SQL replication and extraction validations have progressed, with critical issues such as date/time and packed fields now resolved. The October reports indicate that ongoing discrepancies in interface data and batch outputs still require validation to		
								confirm end-to-end consistency across systems. 2024.08.00.1R3 (Risk Management for Binary and Ascii File Handling): Open – In Progress. Some risk assessments have been completed, but specific evaluations for the binary and Ascii files are still needed. The packed field and date/time data issues were resolved,		
								reducing some risk associated with binary data. Additional validation and testing for converted files remain crucial to ensure data accuracy in other key areas.		

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IREA ID TYPE	ORIGIN		BEST PRACTICES ANALYSIS	RECOMMENDATIONS	2024.08.00.1.R4 (Resource Management and Space Availability): Open - Ongoing Evaluation: Resource constraints, particularly related to mainframe and storage capacity are still an area of focus. The October updates highlighted that batch and interface testing are sometimes delayed due to dependency on shared mainframe resources and long runtimes for large batch jobs. Develop contingency plans to manage high-demand periods and alleviate mainframe dependency for smoother testing cycles. 2024/9/30:There is a delay in the resolution of the production test data delivery method as noted in the weekly status report. The datetime issue with the replicated SQL data is key blocker, with the CSEA working to resolve this through Natural programs. This has the potential to delay critical testing phases, as it impedes the ability to test with accurate production data. The date/fime issue continues to be a blocker. Nulls and packed binary fields have been resolved. The UI refinement process has progressed, with 84% of the tasks completed. However, finalization and validation are still pending, and the scheduli of the walkthrough of the UI Refinement Plan is underway. The Financial Test Deck (FTD execution is still only 35% complete, and scenario execution is 17% complete, while not directly on the critical path, delays in the FTD could become a future risk if unresolved issues persisk. Batch testing is progressing, with 13% of batch test execution complete. 2024.08.00.18.1 (Verification of Data Extraction and Conversion): Open – Progress made but verification of Ascili to BCP scripts and checkpoints not fully implemented. 2024.08.00.18.2 (Nalidation of Extracted Data Consistency): Open – Partial progress, but full end-to-end validation or extracted data is still pending. 2024.08.00.18.3 (Risk Management for Binary and Ascil File Handling): Open – No mentio of specific risk assessments for binary and Ascil File handling: Turber analysis needed. 2024.08.00.18.4 (Resource Management and Space Availability): Open – Ongoing ev	E	CLOSURE REASON
					IV&V will continue to monitor these recommendations and validate progress until full resolution is achieved.		
echnology 2024.03.001 Risk	Moder	derate Moderate The timing of other State of Hawaii modernization projects impact the ability to properly design KEIK system interfaces and will necessitate the need for interface modifications after its deployment, which can lead to additional costs, delays, and disruption to the system.	on the State's mainframe for system file and data exchanges with multiple State of Hawaii agencies. The timing of multiple agencies moving off the mainframe at different times will result in the need to modify KEIK system interfaces after the system has been deployed. Until other State modernization projects are completed, the KEIKI project cannot perform server-based data exchanges and will need to continue to interface via the mainframe. In addition, as the KEIKI project involves integrating a modernized child support system with existing legacy systems, there may be other technological and architectural gas phat arise. These gas can include	CLOSED: 2024.07.001.R1 - It was recommended that CSEA meet with the new Chief Data Officer. And also to meet with the EFS team to identify any potential impacts to CSEA and align with IT policies. CLOSED: 2024.03.001.R1 - CSEA should coordinate regular meetings with impacted State of Hawaii agencies. Roles, responsibilities, expectations and interface requirements should be clearly defined to ensure information and project status is proactively communicated for the various modernization efforts. 2024.03.001.R2 - The projects should properly plan for interfaces so that they are flexible enough to accommodate future changes and are compatible with other agencies. Clearly identify all the interfaces that the system will interact with and how they will communicate. Develop interfaces and data structure that are flexible enough to accommodate changes to the interfaces. Detailed testing will be required as the various departments upgrade their systems to ensure compatibility.	2025/07/31: As of the end of July 2025, Risk 2024.03.001 remains open due to continued dependencies between the KEIKI system and multiple State of Hawaii agency modernization efforts. Atthough System Integration Testing [817] literation 2 reached 97: completion, interface-related performance issues persists, particularly for batch program such as OCSE157, State Tax ORSet, and AP Bill processing. These are being tracked unde RAID Log IDs 35 and 56. Interface testing and development continue to be constrained be legacy system dependencies, as the KEIKI system must still rely on the State's mainframs specifically Cyberfusion, for cross-agency file exchanges. The Bridge Program for Address Normalization is reported at 91% completion, supporting data compatibility, but the final decision on implementing Code-1 Plus software, a key enabler of address standardization across systems, remains pending. Additionally, the project team is actively exploring Twilio integration for job failure notifications, which would improve system monitoring and responsiveness post-deployment. These activities indicate ongoing efforts to improve interface resiliency and responsiveness but do not eliminate the fundamental limitation: the lack of end-to-end server-based data exchang until external agency modernizations are completed. While interface design has been developed with flexibility in mind, including defined communication methods and structured classifications for inbound and outbound data, the full validation of these interfaces remains incomplete. The risk of post-Go-Live interface modifications and associated rework remains present due to the timing of partner agency upgrades. Detailed testing and interface retesting will be required as external agencies move off the mainframe.	s , , ,	

ASSESSMENT OBSERVATION	ORIGI	IRRENT	INDUSTRY STANDARDS AND					
AREA ID T	YPE SEVER	VERITY OBSERVATION	BEST PRACTICES	ANALYSIS	RECOMMENDATIONS	STATUS UPDATE IV&V recommends continued monitoring of this risk category through system testing and	CLOSED DATE	CLOSURE REASON
						pre-Go-Live coordination activities. Until external system dependencies are fully resolved and interface adaptability is confirmed through testing, the risk of downstream delays and disruptions due to interface realignment remains credible and active.		
						and disruptions due to interface realignment remains credible and active. 2025/06/25: As of June, interface development and testing efforts continue under		
						System Integration Testing (SIT) Iteration 2, which is 97% complete. Interface-related performance issues persist, particularly with batch processes such as OCSE157, State Tax		
						Offset, and AP Bill, and are being tracked under RAID Log IDs 35 and 56. These issues highlight ongoing challenges in ensuring compatibility and performance across agency		
						systems. The project has not yet confirmed a final decision on the use of Code-1 Plus software,		
						which is critical for address normalization and cross-agency data compatibility. Additionally, the bridge program to support address normalization is 91% complete, and		
						the Twillio integration for job failure notifications is being explored to improve system responsiveness. While progress is being made, continued attention to interface flexibility.		
						performance tuning, and coordination with external system upgrades is needed to meet		
						and support future integration requirements.		
						2025/05/30: In May, interface dependency updates focused on the CSEA proposed changes to the BOH interface file format, which have yet to be formalized and integrated		
						into the schedule. Interface testing activities continued to address performance and data validation concerns, including FTP interface updates and mock file exchanges with		
						external partners.		
						Protech and CSEA should establish a formal change control process for interface upda tes, ensuring that any new interface file formats or dependencies are incorporated into		
						the project baseline and verified through testing.		
						2025/04/30: Interface structures have been defined and designed for flexibility, but interface testing and retest confirmation remain incomplete. Dependencies on other		
						agencies' modernization timelines continue to impact readiness, and discrepancies between legacy and replatformed outputs are still under resolution. Observation		
						2024.03.001 should remain open to track continued validation and confirmation of interface compatibility with both modern and legacy systems. While the interface		
						inventory and flexibility planning are complete, testing delays and agency modernization dependencies are still impacting readiness and traceability.		
						2025/03/31: In March, Protech began validating the 228 open defects within Jira,		
						including over 100 unconfirmed issues, and took ownership of ensuring traceability between defect resolution and retesting outcomes. While SIT retesting is well underway		
						for most UI and batch-related defects, interface testing continues to experience delays, particularly due to difficulties capturing test files prior to downstream system		
						consumption. These challenges have limited retesting confirmation for interface-related defects. Therefore, this observation remains open, with resolution contingent on		
						improving test traceability and confirming retest documentation across all functional areas, including interfaces.		
						2025/02/28: Testing has identified compatibility challenges (2024.03.001.R2-2),		
						particularly with external agency system upgrades, requiring enhanced flexibility in		
						interface configurations. While progress has been made in interface planning and validation, ongoing compatibility challenges and pending refinements necessitate continued monitoring and testing before this recommendation can be closed.		
						2025/01/31: While progress has been made in developing flexible interface structures		
						and planning for future modifications, end-to-end testing remains ongoing, and coordination with other departments is still required, meaning recommendation		
						2024.03.001.R2 cannot yet be closed until full compatibility and adaptability are validated		
						2024/12/24 - (2024.03.001.R2) In December 2024, progress was made in identifying system interfaces and their communication methods, with updates shared during weekly		
						interface workshops. Efforts to ensure flexibility in data structures and interface configurations continued, including adjustments for compatibility with modernization		
						configurations continued, including adjustments for compatibility with modernization efforts in partner agencies. Testing activities focused on validating data exchange through SQL-to-SQL comparisons and resolving discrepancies in interface files, with additional		
						workshops scheduled to address integration challenges. While significant improvements		
						were achieved, ongoing coordination with other departments is essential to ensure compatibility as their systems undergo upgrades. Detailed end-to-end testing remains a		
						critical next step to confirm readiness for production.		
						2024/11/27 -{2024.03.001.R2}— Interface Planning and Compatibility		

March						
Action of the second control of the second c			RECOMMENDATIONS		CLOSED DATE	CLOSURE REASON
NAME OF THE PROPERTY OF THE PR				communication protocols clearly defined. This includes identifying dependencies with external systems from partner agencies. Further validation of interface files, particularly those with missing or incomplete data, is being prioritized during ongoing batch testing. Interfaces and related data structures have been developed with flexibility in mind, allowing for future changes without significant redevelopment. The system design supports updates to schema or message formats. Continue refining flexibility by testing adaptability with most data representing potential future scenarios and configurations. Interface validation testing is underway using production-like files. Initial validations highlighted discrepancies in legacy and replatformed outputs, which are being addressed Iteratively. Detailed testing will continue alongside integration testing ([71] to ensure that		
Miles and Miles				identifying interfaces, and with continued focus on data coordination and flexibility planning, we can further strengthen alignment with this recommendation. Ongoing efforts to secure reliable data and enhance adaptable structures will help ensure		
Figs: SELECT WARRY AND AND THE CONTRACT CONTRACT AND				policies and Interface details with the EFS team, this effort will be ongoing through project Go-Live. 2024/08/30: ETS' new Chief Data Officer has been aligned as a key stakeholder and is in the process of focusing on data governance policies and interface concerns with the EFS team (2024.07.00.14.1) WSV will continue to monitor and update as the focus on policies.		
No. Wilson District to the second control of the co						
Figure 2012/20 The Policy of Control of the Control of				three groups: 1) Axway (source: AWS vs. Mainframe), 2) Mainframe (group of interfaces on the mainframe with departments pointing to Axway), and 3) Cyberfusion. They also		
Figure 25.1.1.20 To 30.4 Windows Programme for the control of the						
Regula 2014 12013 (loss Moderne Management Pacification Services and Exercises Development Comparison And Pacification Services Development Compariso				meetings with impacted State of Hawaii agencies to monitor the status of their modernization projects and mainframe operations. CSEA is planning to develop an		
"State Acceptance Treat Scriptic Development Competer" have 0% occupation depaid that private and no Color 2017. In other than 10 competed and no Color 2017. In other than 2017 occupation and part of the private of t				information regarding the status of their respective system modernization efforts, specifically those related to the shared mainframe and dependencies.		
	"KMS: Acceptance Test Scripts Dev completion despite their planned st indicates potential resource or prio testing reports highlight slow progreg (data processing) allocated to boatch testing. For example, only 16% of b as of December 18, 2024. Though the primary issue, downstream on transfer must also be considered at future testing and validation delays future testing and validation delays	elopment Complete" have 0% resource optimization as part tarn in Octobe 2013. This writization on the "Resource optimization as part to morphetion rates and test script development" domain, ress due to insufficient resource. Aligning resource capacity with demand ensures timely addressing these issues through a validation and interface with demand ensures timely ask completion. Sold and align with PMBOK® principles for optimizate transfer and processing is siderations for knowledge and delivered timely to prevent.	ent, evidenced by 0% vendor team should consider assigning and aligning additional of more experienced resources to the delayed tasks and backlog killed resource deployment and lerate milestone completion,	database and AWS-hosted environment configuration.IS Pub 1075 (security and privacy requirements for agencies and contractors who receive or process Federal Tax Information) compliance was documented and tracked throughout Q1. Functional SIT and system testing were completed in April, and backlog test cases appear closed via full script execution in SIT iteration 2, which shows all 19 lest scripts were executed and passed. IV&V recommends closing this observation and its resulting recommendation (2024.12.001.R1) 2025/03/31: As of March 2025, CSEA has confirmed that they have appropriate access to AWS since the Protech transition and overall testing access and coordination have improved, particularly through structured agency validation meetings led by CSEA. The KEIKI project's batch testing was reported as 87% complete, according to the most recent Critical Path schedule update. This reflects cumulative progress across multiple batch testing iterations, including performance tuning efforts and output validation cycles associated with the February 18 dataset. The remaining batch activities, including iteration 5 and final validation are scheduled to continue into April. This observation shall remain open until the formal schedule alignment has been conducted and approved by CSEA and backlog testing areas have been addressed. 2025/02/28: 38% of batch jobs have passed validation as of February 26, 2025, showing an improvement but still below required levels for progression into the next phase. Resource shortages in financials and Usiliation are for a testing allocation transition plan to Protech which is still in progress, IV&V will continue to monitor progress. 2025/01/31: Progress continues in addressing the identified issue, with recent efforts focused on refining data validation processes and improving coordination between stakeholders. However, challenges remain in fully resolving discrepancies, and additional can apply the contraction of the contraction of the stake and contraction of the stake and con	45784	See Status Update 2025/04/30

ASSE AREA	SSMENT O	DBSERVATION D			CURRENT	OBSERVATION	INDUSTRY STANDARDS AND BEST PRACTICES	ANALYSIS	RECOMMENDATIONS	STATUS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Реор	le 2	2024.12.002	Risk	Moderate		CSEA) are critical to task progression. Weekly reports indicate challenges in joint troubleshooting sessions with IBM due to PII and	awareness and desire for change among stakeholders to align efforts.	Engaging multiple stakeholders in concurrent projects (Risk #31) is critical to mitigating interface testing risks, but this requires synchronized coordination to prevent delays. Interface workshops and stakeholder meetings (Risk #35) play a key role in fostering collaboration and ensuring timely resolution of interface-related issues, reducing the risk of misalignment in testing and implementation activities.	stakeholders like CSEA through daily meetings to expedite resolution of open issues. This will improve turnaround time for		2025/02/28: CSEA is holding half day meetings with the business teams that started in early February to ensure that all the test scripts are fully reviewed and edited in order to expedite the resolution of open issues. This activity also provides a mechanism for change management by fostering collaboration and a mutual understanding of expected functionality, reducing their isk of missingment in tering. WaV notes that this recommendation has been acted upon and will close accordingly. 2025/01/31: The status this month reflects ongoing efforts to enhance system integration and streamline data exchange processes, with incremental improvements in validation and testing workflows. Despite projects, key dependencies and unresolved technical issues continue to pose challenges, requiring further collaboration and refinement to achieve full resolution.		IV&V notes that this recommendation has been taken into action and will close accordingly.

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AREA II	D D D D D D D D D D D D D D D D D D D	TYPE		SEVERITY	OBSERVATION	BEST PRACTICES	ANALYSIS	RECOMMENDATIONS	STATUS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
	024.08.001		Moderate	Low	Industry Standards and Best Practices: IEEE 730-2014 standard recommends that status reports include certain key information to ensure effective communication of testing and quality assurance activities.		There is currently a weekly testing report provided to the Project Team. The report conveys the number of testing scenarios in process, however the report does not offer a total number of test cases to be processed for each workstream, nor does it convey full metrics, such as percentage of completion of the total scope within the testing categories and how those align with the project schedule parameters. This can contribute to risk whe total transparency is not displayed.	Closed 2024.08.00.R.1 — The report should outline recommended actions based on the current state of testing, as well as the next steps for future testing activities. Ensure that key stakeholders can easily understand the report's findings and implications. **Netrics and Measurements: The separate weekly test report should provide metrics that reflect the quality of the software, such as pass/fail rates, coverage of tests (e.g., percentage of test cases executed), and other relevant testing metrics, i.e., total scenarios to be tested, percentage of completion and inheline for completion. **Schedule and Millestones: The current status of the testing schedule should be reported, noting any deviations from planned milestones and deadlines. The report should reflect the current state of testing completion tracking as aligned with the project schedule. **Decisions and Change Requests: Any key decisions made during the testing phase, including approved or pending change requests that impact testing or quality assurance activities, should be included.	Closed	2024/IO/31. 2024.08.00.1.8 If Testing Reports) The weekly testing reports now include pass/fall rates, coverage metrics, defect tracking, and milestone updates, providing a clearer understanding of testing progress and project health. This aligns with the recommendation for improved reporting metrics and stakeholder communication. 2024/09/30: 2024.08.01.8 If Testing Reports) isginificant improvements have been made in the most recent reports and provide a clearer understanding for all stakeholders. IV&V will continue to monitor as these improvements to visibility progress.	2024/10/31	There is now an aligned and improved test reporting metrics with stakeholder communication that affords efficiency and agility in the team making informed decisions.
Process 2	024.06.002	Risk	Moderate	Moderate	The project faces a significant risk of incurring extensive costs for delivering the necessary data to test the refactored KEIKI application, potentially leading to delays in the project timeline an increased budget constraints. Despite discussions with Protech and AWS, the issue remains billing-related rather than technical, necessitating ongoing negotiations with ETS to determine financial responsibility. CSA has developed a second option to use a SQLI to SQL transfer in to reduce the amount of federal funding needed for this piece of the contract. In the month of July testing will be conducted to test the viability of this cost saving measure. A decision will be made at the end of July. With the new State ClO starting on August 15, decision-making could be further delayed into the Fall.		Meetings have been held with Protech to discuss the data extraction costs. Protech has engaged AWS for options, but AWS indicates the issue is billing related, not technical. The cost of delivering data for testing is critical for the KEIK project, but CSEA finds the current costs prohibitive. Discussions with Protech and AWS indicate the need to resolve the billing issue rather than tetchical challenges. Without a resolution, this issue could impact the project timeline and budget. CSEA continues to engage ETS to negotiate a cost cap and explore alternative solutions.	financial support for data delivery. • Engage in discussions to find a feasible cost structure that aligns with project budgets.		2024/07/31: The SQL to SQL method for data extraction and transfer has been confirmed. CSEA has addressed the issue of cost.	2024/07/31	The SQL to SQL method for data extraction and transfer will be used. SSEA has confirmed that the costs have been addressed.
Process 2	024.03.002	Issue	Moderate	Moderate	Inadequate schedule and resource management practices may lea to project delays, missed project activities, unrealistic schedule forecasts, or unidentified causes for delays.		The overall project end date and Go-Live date is projecting a 17-day variance due to the delay in the assessment validation which was completed in February. It is crucial for the Protech and CSEA project managers to both take active roles in tracking and monitoring project activities, especially delayed and upcoming tasks, to collaborate on ways to get the project back on track. Although the project metrics are showing a 17-day variance, some project tasks are delayed 1 to 2 months from the approved baseline including building the KEIKI database, developing system test scripts, UI design, UI development, code conversion, system test execution, etc. CSEA should have a clear understanding of the impact of delays on the overall timeline and validate the 17-day schedule variance.	review and refine the schedule regularly with detailed tasks, realistic durations, and adequate resources. • The project managers should meet weekly to discuss the		2024/06/30: Issue closed. The schedule was updated and the 17-day variance was successfully mitigated, ensuring the project remained on track. The project schedule continues to be discussed weekly. IV&V encourages the CSEA PM to conduct in depended reviews of the schedule and project metrics. IV&V will continue to monitor progress made on schedule and resource management practices. 2024/06/31: Protech delivered a draft of the replanned project schedule and analysis for CSEA's feedback and approval. The revised schedule maintains the original Go-Live date. 2024/04/30: Project managers started meeting regularly to review the project schedule. The project managers will do a deeper analysis of the upcoming technical tasks, and then recalibrate the project schedule in May.	2024/06/30	The schedule was updated and the 17-day variance was successfully mitigated, ensuring the project remained on track. The project schedule continues to be discussed weekly.

ASSESSMENT OB				CURRENT		INDUSTRY STANDARDS AND						
AREA ID				SEVERITY	OBSERVATION	BEST PRACTICES	ANALYSIS			STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Process 202	024.02.001	Preliminary	N/A	N/A	Additional information is needed regarding Protech's program		In February, Protech delivered the System Requirements Document and Test	N/A for preliminary concerns.		2024/06/30: Preliminary closed. CSEA acknowledged the risk associated with not having		CSEA acknowledged the risk of r
					development and testing approach.		Plan which are still under review. CSEA already provided a number of			defined UI system requirements. Instead, the test scripts are used as the requirements.		having defined UI system require
							comments for both deliverables requesting additional clarification or			The teams collaborate closely and hold regular test meetings to ensure alignment and		and addressed it by using test so
							additional documentation. Both deliverables do not provide sufficient			thorough testing.		the requirements. Additionally,
							understanding of Protech and One Advanced's approach for the program			teams collaborated closely and h		
							development and testing phase. There needs to be a clearer mutual			IV&V will continue to monitor the clarification of the program development and testing		regular test meetings to ensure
							understanding of how Protech's development and testing approach will			2024/05/31: Protech's testing approach presentation was pushed back to June. The		alignment and thorough testing.
							ensure that the new system and user interface will maintain the same			presentation is critical as test scripts are finalized and system testing begins in June.		approach mitigates the risk by e
							functionality, data, and system interfaces as the old system. The System					that the testing process is
							Requirements Definition deliverable is high-level documentation of items			2024/04/30: Protech will present their testing approach in May. The presentation is		comprehensive and that any issu
							such as source code, data component, and interface tables but does not			important as test scripts are finalized, and system testing is approaching.		promptly identified and resolved
							actually capture the required functionality using industry standard format for					through ongoing communication
							requirements. Documenting requirements is especially important for the			2024/03/31: Protech is planning on a presentation in April or May to explain how their		collaboration.
							development of the new front-end user interface (UI). The System			testing approach will ensure that the new system and user interface will maintain the		
							Requirements Definition deliverable included a User Interface section but			same functionality as the old system. Without documented requirements, it is still		
							does not include sufficient information regarding UI requirements. Protech			unclear how program development progress, testing, and acceptance will be managed		
							has another UI Refinement plan deliverable due in May 2024, however, it is			and monitored.		
							unclear if UI requirements will be included in that deliverable.					
							If system requirements will not be used to manage development of UI as					
							well as replatforming and refactoring of code work, then it is important to					
							understand how Protech and One Advanced are planning to manage and					
							report on development progress. Additionally, without documented system					
							requirements, testing will be even more critical for identifying gaps in or					
							issues with functionality during the development process. CSEA also has a					
							number of comments and questions on the Protech Test Plan deliverable. In					
							addition to the System Test Plan, Protech is developing an Acceptance Test					
							Plan (UAT Plan) deliverable due in April 2024 which may help to provide					
							additional clarification of the comprehensive testing strategy and delineation					
							of testing responsibilities between Protech and CSEA.					
							CSEA plans to work with Protech to clarify and refine both deliverables.					
							IV&V will continue to monitor this preliminary concern as additional					
							information is discovered.					
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ASSESSMENT OBSERVAT	TION	ORIGINA	L CURRENT		INDUSTRY STANDARDS AND						
AREA ID	TYPE	SEVERITY		OBSERVATION	BEST PRACTICES	ANALYSIS	RECOMMENDATIONS	STATUS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Process 2024.01.0	001 Risk	Moderat	te Low	Ineffective project status meetings and reports can lead to delayed decision-making, lack of accountability, and reduced morale.		For example, late project deliverables may be listed as simply "in progress"; however, one is unable to determine how many additional days the	refining the project status report and providing topics for weekly project meetings. • Contribute to the improvement of project meetings and reports that actively engage team members and highlight key	Closed		2024/06/30	Test reports were added to the weekly status meetings. The report contains testing and defect metrics.
Technology 2023.12.0	Positive	Moderat	te N/A	The Automated Application Assessment process was well planned and executed.		Protech's partner, Advanced, worked closely with CSEA's technical SMEs and outlined a clear, well-defined process to collect and assess the KEIKI mainframe application in preparation for the migration and code conversion Advanced's weekly status updates and follow-ups helped all stakeholders understand their roles, responsibilities, outstanding tasks, and status of activities. Their final assessment report was comprehensive, data-driven and insightful, and prepared the project team well as they begin the next phase of legacy code and data system migration.		Closed	n/A	2024/01/31	Closed as this is a positive observation.
Technology 2023.11.0		Moderat	te Moderate	Complex data system migration requirements, combined with incomplete documentation and the absence of a formalized process for non-code tasks, may lead to project delays, unmet contract requirements, and quality issues.		delays if not properly planned and managed. The KEIKI system's incomplete documentation and multitude of jobs, worlfows, interfaces, and interface files pose a risk of overlooking certain elements, making it challenging to track and validate migration requirements. The project lacks a formalized process for non-code tasks in the data system requirements collection, migration, and validation activities. The project has a formalized process for application code migration but lacks a clear process for gathering non-code and ancillary elements including hardware, software, interfaces, and batch files. The absence of a separate, formalized process and reliance on manual processes using Excel worksheets may result in data loss, poor quality, and technical issues affecting system performance and user experience. The ST's waterfall approach requires upfront gathering and definition of all requirements in a linear sequence. Late identification of data system migration requirements may result in insufficient time or budget to execute the migration properly.	migration plans and processes for non-code elements. A separate implementation plan should be clearly outlined, determining the timeline, tasks, tools, and resources needed to perform these activities. • Develop a formalized data migration acceptance process for the remaining cycles with defined acceptance criteria. • Determine what validation is needed by other agencies and stakeholders that rely on CSEA's keikl system and outputs. 2023.11.001.R2 – Investigate automated tools for tracking and validating data system requirements. • Automated data validation should be investigated to help identify missing elements, increase data accuracy, and alleviate resource constraints. 2023.11.001.R3 – Ensure data system requirements are comprehensive and complete upfront. • Given the waterfall approach, schedule and resource considerations should be given to increasing system requirement gathering upfront. • The project managers should ensure greater coordination of project information needed for requirements management and tracking. • Consider an iterative approach for non-code migration activities, which allows for several rounds of review and validation. • Consider an iterative approach for several migration requirements, supporting the migration process, troubleshotting issues that arise, and coordinating tasks with Protech, Advanced, Datahouse, and CSEA.	2	hardware, software, interfaces, and batch files was completed and will be validated as part of the technical architecture and system requirements documentation. 12/31/23: CSEA appointed two dedicated Data System Migration Leads, it is unclear if Protech also appointed a dedicated lead. A clear plan is still missing, and CSEA documented a formal issue related to the lack of information coordination and redundan requests related to the data system migration requirements. 2023/12/31: CSEA appointed two dedicated Data System Migration Leads. It is unclear if Protech also appointed a dedicated lead. A clear plan is still missing, and CSEA documented a formal issue related to the lack of information coordination and redundan requests related to the data system migration requirements.	2024/01/31	Risk closed as the inventory of non- code and anciliary elements was completed.
People 2023,10.0	Positive	N/A	N/A	The project team members are engaged and the environment between Protech and CSEA is collaborative.	Body of Knowledge (PMBOK) Chapter 2.2 and PMI The Standard for Project Management (SPM) Chapter	The CSEA SMEs appear to be engaged in ongoing Assessment sessions and accountable for timely completing required tasks, providing information, and responding to questions. The project team members regularly seek feedback, input, and clarification in an open and respectful manner. The experience and knowledge of Portech team members combined with the dedication and high level of engagement from CSEA SMEs support the positive project team environment.	N/A	Closed	N/A	2023/11/30	Closed as this is a positive observation.

Appendix D: Comment Log on Draft Report



Comment Log on Draft Report

KROM Project: IV&V Document Comment Log





ID#	Page #	Comment	Commenter's Organization	Accuity Resolution
1	9	Regarding Item 1) statement that 'critical' and 'highest' should be treated with the same priority, this is not necessarily true. The 'critical' severity level refers to impact on the system, but the 'highest' priority level refers to the DDI's work scheduling level.	ІТО	IV&V agrees that the use of 'priority' is confusing given the recent clarifying language addressing the differences between 'severity' and 'priority.' The summary has been updated accordingly.
2	10	A multifaceted dashboard has been created to track UAT progress.	ІТО	IV&V confirms that CSEA created a user acceptance testing (UAT) status dashboard. As UAT began in August, IV&V will include observations on its actual use in the August IV&V report. The July comment primarily focused on ProTech's reporting of SIT progress. While ProTech uses Jira to track defects, access is limited. Given the ongoing SIT delays, IV&V will continue to monitor the usefulness and effectiveness of ProTech's defect tracking reports as they support CSEA's progress.
3	18	The DDI's priority level is a useful tool to focus resources on the defects that need to be fixed most urgently. The Financial Test Deck was completed and all questions resolved.	ІТО	IV&V confirms that the Financial Test Deck has been completed. Observation 2024.12.003 focuses on the issue that both critical and non-critical tasks are being worked on concurrently. The Financial Test Deck was cited as <i>an example</i> where a critical task appeared to be impacted by non-critical tasks being worked on simultaneously. This observation continues to update and monitor the progress of both critical and non-critical defects as they are concurrently being worked on



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