

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

P.O. BOX 119, HONOLULU, HAWAI'I 96810-0119 Ph: (808) 586-6000 | Fax: (808) 586-1922 FTS HAWAII GOV

March 1, 2023

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

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

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

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

Sincerely,

Douglas Murdock Chief Information Officer State of Hawai'i

Attachment



MONTHLY IV&V REVIEW REPORT

January 31, 2023 | Version 1.0





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Document History

DATE	DESCRIPTION	AUTHOR	VERSION
02/10/23	Monthly IV&V Review Report Draft created	Julia Okinaka	0.0
02/27/23	Monthly IV&V Review Report finalized with no changes. Comment submitted and included in Appendix D.	Julia Okinaka	1.0



BACKGROUND

The State of Hawaii (State), Department of Commerce and Consumer Affairs (DCCA) contracted Century Computers, Inc. (Pacxa) on July 1, 2022 to provide services for the Business Registration Modernization (BRM) Project to redesign the Business Registration (BREG) Division's business registration processes and modernize its systems. DCCA contracted Aalta LLC (Aalta) to provide project management services for DCCA and also contracted Accuity LLP (Accuity) to provide Independent Verification and Validation (IV&V) services for the BRM Project.

Our initial assessment of project health was provided in the first Monthly IV&V Review Report as of August 31, 2022. Monthly IV&V Review Reports will be issued through December 2023 and will build upon the initial report to continually update and evaluate project progress and performance.

Our IV&V Assessment Areas include People, Process, and Technology. Each month we will select specific IV&V Assessment Areas to perform more focused IV&V activities on a rotational basis. The focus of our IV&V activities for this report included the completion of a two-month assessment of Process and the beginning of a two-month assessment of People.

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 January 31, 2023. 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.

TEAMWORK

"If you want to go fast, go alone. If you want to go far, go together."

- African Proverb



PROJECT ASSESSMENT

JANUARY 2023

SUMMARY RATINGS

OVERALL RATING



Deficiencies were observed that merit attention and remediation in a timely manner.

PEOPLE



PROCESS



TECHNOLOGY



CRITICALITY RATINGS



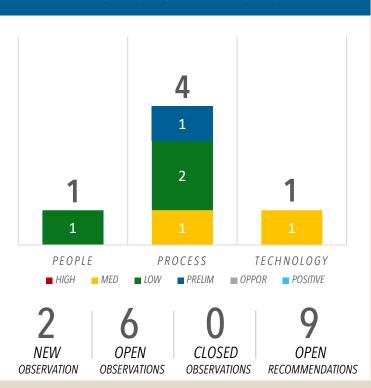




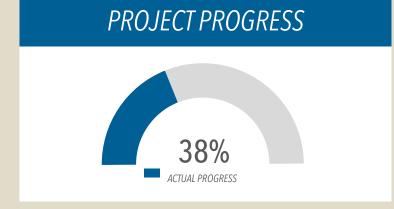




IV&V OBSERVATIONS

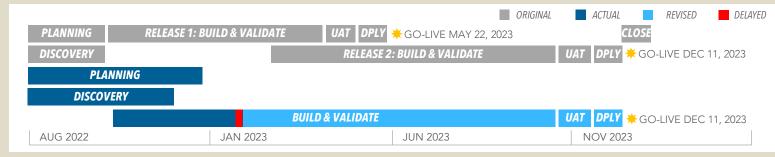


PROJECT BUDGET \$1.9 M \$- \$1 \$2 \$3 ■ INVOICED ■ TOTAL * Only includes contracts. IV&V unable to validate total budget.



KEY PROGRESS & RISKS

- The BRM Project wrapped up Development Sprint 1 and continues to make forward progress in many areas of the project. Strong project management practices are critical for sustaining project performance and velocity.
- The project has begun to define and track defect metrics as part of the build and validate phase of the project.
- Additional clarification is needed to ensure clear requirements management and traceability.
- Multiple outstanding data conversion items are preventing the timely execution of data activities which may have impacts on the project schedule.



JANUARY 2023 · BRM PROJECT

NOV	DEC	JAN	IV&V ASSESSMENT AREA	IV&V SUMMARY					
①	G		Overall The BRM Project wrapped up Development Sprint 1 and continues to make progress in man the project. Strong project management practices are critical for sustaining project performance velocity despite current delays.						
				<i>Project Schedule</i> : The project is generally on schedule; however, there are some delayed technology activities that may impact future Joint Application Design (JAD) sessions and the overall timeline if not addressed in the upcoming weeks (2022.09.001).					
				Project Costs: Contract invoices received to-date are within total contract costs. Additional hardware costs are being evaluated by DCCA.					
				Quality: The project has begun to define and track defect metrics as part of the build and validate phase of the project.					
				Project Success: Project goals were drafted; however, quantitative success metrics are still pending (2022.08.006).					
G	•	G	People Team, Stakeholders, & Culture	 Project team members continue to work collaboratively to support project success. DCCA distributed its first project newsletter to staff reporting on project accomplishments, key dates, work in progress, future changes, and the project timeline. Project managers are working closely together and developed an approach to proactively communicate project activities and better facilitate the coordination of DCCA project resources. Analysis of DCCA resources is important to determine if their project resources are sufficient for upcoming project activities (2022.08.002). The organizational change management (OCM) team began to populate the change impact assessment tool to support impacted stakeholders. The executive steering committee (ESC) added additional members and continues to meet monthly. 					

JANUARY 2023 · BRM PROJECT

NOV	DEC	JAN	IV&V ASSESSMENT AREA	IV&V SUMMARY					
Y			Process Approach & Execution	 The baseline project schedule is being executed; however, there are some delayed tasks that may impact the execution of other tasks or the overall timeline. Improvements to schedule manageme processes are still needed to detect delays earlier and to identify root causes to prevent delays going forward (2022.09.001). Additional tasks and deliverables for soft user acceptance testing (UAT) cycles still need to be scheduled as UAT is tentatively planned for April 2023. DCCA approved the test plan and Pacxa reported preliminary defects metrics for Development Sprint 1. The roll-out of the requirements and development management tool is delayed and is expected to be available for DCCA use in March 2023. Aalta clarified their remaining project management deliverables and started to deliver additional artifacts related to risk and requirements management. Aalta plans to deliver a UAT Plan in February. Timelines and schedules are still pending for other deliverables (2022.11.001). Quantitative success metrics need to be defined (2022.08.006). Additional clarification is needed to ensure clear requirements management and traceability (2023.01.001). 					
	6	•	Technology System, Data, & Security	 Development Sprint 1 wrapped up in January with 90% (47 of 52) of user stories completed. This sprint focused on the foundational framework of the portal and case management solution. Development Sprint 2 planning was completed with 95 user stories tagged for development. JAD 7 is underway; however, technology delays pushed some technology requirements to future JAD discussions. Multiple outstanding data conversion items are preventing the timely execution of data conversion activities which may impact the project schedule (2023.01.002).* Selection and procurement of hardware is still pending impacting integration and technical requirements and design sessions.* A comprehensive data conversion plan was provided and is being reviewed by DCCA. The plan will continue to be updated as new approaches and decisions are made. Data conversion design, scripting, and loading activities for the legacy data processing system (BRIMS) was completed for Iteration 1 and is progressing for Iteration 2. *Accuity is not reporting individual technology risks as formal IV&V observations as they are already tracked by the project team (Risk ID #2.00, 9.00 and 10.00). The rating for this IV&V Assessment Area reflects the cumulative risks. 					

IV&V ASSESSMENT ARFAS

People

Process

Technology

OBSERVATION #: 2023.01.001

STATUS: N/A

TYPE: PRELIMINARY

SEVERITY: N/A

TITLE: UNCLEAR REQUIREMENTS MANAGEMENT PROCESS

Observation: Additional clarification is needed to ensure clear requirements management and traceability.

Industry Standards and Best Practices: PMI PMBOK Chapters 2 and 3 establish how requirements are managed, documented, and approved. It states the importance of tracing requirements to such items as project objectives, deliverables, product design, product development, test scenarios, and acceptance criteria. It also states that requirements can be grouped into classifications including business, stakeholder, solution, project, and quality.

Analysis: There are a number of deliverables to ensure proper requirements and scope management including:

- Scope Management Plan
- Requirements Traceability Matrix (RTM) DED
- ADO Tool
- User Story Matrix
- Performance Work Statement (PWS)

Although the documents and tools above provide a high-level overview of requirements gathering, traceability, validation, and acceptance, they have not been fully implemented for visibility by all applicable stakeholders. As Development Sprint 2 begins, it is critical that additional clarification is provided and the tools are put into use to ensure clear requirements documentation, traceability, validation, and acceptance. Additional clarification and visibility is needed to understand:

- How user stories tie to requirements
- How test cases tie to user stories
- How contract requirements outlined in the PWS are traced and monitored

Pacxa plans to roll-out and train DCCA on the ADO tool in March 2023 which should provide more insight into requirements management, processes, and roles and responsibilities. IV&V will continue to monitor this preliminary concern as additional information is discovered.

Recommendation: N/A for preliminary concerns.

IV&V ASSESSMENT ARFAS

People

Process

Technology

OBSERVATION #: 2023.01.002

STATUS: OPEN

TYPE: RISK



TITLE: MULTIPLE DATA CONVERSION OPEN ITEMS MAY IMPACT PROJECT SCHEDULE

Observation: Multiple outstanding data conversion items are preventing the timely execution of data activities which may have impacts on the project schedule.

Industry Standards and Best Practices: DAMA-DMBOK2 outlines the guiding principles and best practices for data management and migration.

Analysis: There are multiple phases and iterations of Data and Document Conversion happening concurrently. Although good progress has been made in some areas, there are a number of outstanding items that were planned to begin already, that are delayed such as:

- HBE Portal to Clariti: The project planned on receiving the database extract at the end of December 2022; however, due to reliance on a third-party vendor, the data is expected to be delivered in February 2023. (Risk ID #9.00: Action Item #117)
- RDPMS to DocuSign CLM Instance: The project planned on starting the migration of documents in January 2023. There is a currently a limitation with the bulk import process, and alternative bulk upload approaches need to be investigated with DocuSign, if available. (Action Item #114)
- Migration of Documents from Old DocuSign Instance to New DocuSign CLM Instance: The project must find a mechanism to migrate over the documents to the new instance; however, the responsibility for the migration is still unclear. Furthermore, the project needs to create procedures to have the documents reorganized so that it is consumable by the new system. Additional meetings are being scheduled with DocuSign to resolve this matter. (Risk ID #2.00; Action Item #115 and #116)

Status and steps to address the open data conversion issues are tracked in the RAID Log as open risks and actions.

Recommendation: 2023.01.002.R1 – Enhance management and execution of the action items to address all the outstanding data conversion issues.

- Risks, costs, and schedule impacts of delays and decisions must be clearly communicated and understood.
- The action items should identify the persons responsible and target dates to ensure timely resolution of open items.
- DCCA Technical leads to prioritize and escalate critical issues.

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 RED, high criticality rating is assigned when significant severe deficiencies were observed and immediate remediation or risk mitigation is required.

A YELLOW, medium criticality rating is assigned when deficiencies were observed that merit attention. Remediation or risk mitigation should be performed in a timely manner.

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



TERMS

POSITIVE

Celebrates high

performance or

PRELIMINARY CONCERN

project successes.



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 16085:2020	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 15288-2015	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 Observations Log



Appendix C: Observations and Recommendations Log

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In Company in the register of security of the value of the value of security of the value of						for the contracted DCCA project manager	services for the BRM Project. Aalta's proposal provides the details of their	•Discuss the reports and work products from Aalta's proposal and classify as		Level 3 (Low) as Aalta clarified and delivered some of their contract deliverables		
Advancement of regions, administrative and administ						could impact the execution of Aalta and	approach for performing the high-level scope of work outlined in their	either 1) contract deliverables or 2) activities that Aalta only assists the project		including monthly reports, project management plan, and quality assurance		
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ASSESSMENT	OBSERVATION		ORIGINAL	CLIPPENT							
AREA	ID	TYPE	SEVERITY	SEVERITY	OBSERVATION	ANALYSIS	RECOMMENDATIONS	STATUS	STATUS UPDATE	CLOSED DATE	CLOSURE REASON
AREA People	2022.08.002	TYPE Risk	SEVERTY	SEVERITY	Insufficient DCCA project resources may lead to project delays, reduced project performance, or turnover of project resources.	It is unclear at this time if there are adequate DCCA project resources to efficiently perform project work to achieve the aggressive high-level timeline. DCCA did contract an external full-time Project Manager (Aalta) who officially onboarded at the end of August 2022. Having a dedicated and experienced resource in the Project Manager role has been shown to increase project success compared to a resource who is often pulled back to perform regular job duties. DCCA also appointed resources for the OCM and communications lead roles; however, other project roles and resources are not yet identified. The new DCCA Project Manager is working to identify the additional DCCA workstream lead roles (e.g., data conversion lead, testing lead) needed to efficiently and effectively perform project work as well as identify potential candidates within DCCA to fill these lead roles. A common issue in SOH modernization projects is that assigned resources must often balance competing priorities of project work and ongoing operational work. Additionally, assigned resources don't always have the necessary experience or knowledge of how to perform the project tasks. It is critical that a resource plan to backfill and train DCCA resources is developed to prevent project delays.	 Get commitments from resources and management for the time needed to perform project work. 2022.08.002.R2 – Provide adequate training and support to assigned resources 		O9/30/22: DCCA is still in the process of identifying resources to assign to lead roles and brainstorming different resource management strategies (e.g., staging resources for different phases). DCCA also plans to hire additional employees in 2023 to mitigate the impact to operations. 10/31/22: DCCA workstream lead roles were identified but the same resources were assigned to multiple roles. Additional resources are still needed. Additionally, many DCCA SMEs attend each of the ongoing Joint Application Design (JAD) sessions. As sprint meetings and demos will begin to run in parallel with the JAD sessions, DCCA needs to ensure that there will be adequate resources and that resources are not overbooked. We added an additional recommendation at 2022.08.002.R3 to use resource management strategies to optimize the utilization of limited DCCA project resources. 11/30/22: DCCA plans to reassess resource needs once project activities begin to run in parallel. We will continue to assess the risk of inadequate resources once sprint development sprints begin in December 2022 and when timing of the soft UAT cycles is determined. 12/31/22: Project team members are generally able to keep up with current project activities. Additional project activities involving DCCA team members will begin to run in parallel with development Sprint 1 in January 2023. 1/31/23: Project managers are working closely together and developed an approach to proactively communicate project activities and better facilitate the coordination of DCCA project resources. With growing technology delays, it is important to clarify technical lead roles to ensure tasks are assigned and completed timely (See 2023.01.002). Accuity will continue to assess the adequacy and management of project resources.	CLOSED DATE	CLOSURE REASON
Process	2022.08.006	Risk	Low	Low		Project goals were drafted; however, quantitative success metrics were not yet defined. Clear and measurable success metrics ensure that everyone is working to the same definition of success, that progress can be monitored,	2022.08.006.R1 – Formalize measurable goals and success metrics. Consider financial, nonfinancial, tangible, and intangible metrics such as operational key performance indicators (KPIs), customer or employee	Open	09/30/22: The Project will work to define KPIs and success metrics. 10/31/22, 11/30/22, 12/31/22, and 1/31/23: No updates to report.		
						and corrective actions can be taken if necessary.	satisfaction, user adoption, return on investment, or cycle or processing times. •Consider benefits realization management objectives as well as alignment to BREG goals.		Accuity will review selected metrics once selected.		
							2022.08.006.R2 – Collect baseline data and monitor progress. Consider methods for collecting data such as process mining, surveys, queries, observation, or open forums. Consider sources of data such as legacy systems, operations, and internal and external stakeholders.				

ASSESSMENT	OBSERVATION		ORIGINAL	CURRENT							
AREA People	2022.08.003	TYPE Risk	SEVERITY	Low	OBSERVATION A delay in formalizing the executive steering committee may limit the strategic guidance and support to the project.	The Pacxa kickoff presentation noted that a governance model will be developed. The topic of a steering committee was also raised during meetings. However, the selection of the steering committee members and kickoff of the committee meetings are still pending.	2022.08.003.R1 – Assemble and formalize an executive steering committee. •The size and selection of committee members should balance the representation of key stakeholders with the need for efficient decision making. •Formalize the committee mission, responsibilities, and the types and the thresholds of decisions that need committee approval in a steering committee charter.	Closed	09/30/22: DoCA is still in the process of formalizing steering committee members and documenting the governance model. 10/31/22: The steering committee members were selected and the first meeting is expected to be scheduled in November 2022. Committee meetings should commence soon to ensure there is adequate guidance, support, and oversight of the project. 11/30/22: The project governance model was established and the first executive steering committee (ESC) meeting was held.	11/30/22	CLOSURE REASON Closed as the governance model was established.
Process	2022.08.004	Risk	Low	Low	A lack of cost management practices may lead to unexpected or improper costs.	how the complete project budget will be managed and how additional costs outside of the major contracts will be identified. For example, certain	2022.08.004.R1 – Prepare a comprehensive project budget and a schedule of long-term operational costs (e.g., licenses, subscriptions, maintenance, cloud services). 2022.08.004.R2 – Develop DCCA cost management processes. - Develop processes to prepare cost variance analysis and reports. - Develop processes to monitor contract deliverables against payment terms.	Closed	09/30/22: The contracted DCCA Project Manager will be responsible for monitoring and reporting costs for the project contracts. DCCA still needs to determine who will be responsible for managing and procuring other project costs (e.g., additional licensing, project tools). 10/31/22: Processes for monitoring contract costs and tracking a comprehensive project budget still need to be formalized. 11/30/22: The additional procurement for licensing was completed. Other costs related to a conversion tool for proprietary format files and the project management tool will be covered by Pacxa's contract and are not additional project costs. The contracted DCCA project manager will identify potential project costs and will be responsible for monitoring Pacxa contract deliverables for milestone payments.	11/30/22	Closed as sufficient cost management processes are in place.
Process	2022.08.007	Risk	Prelim	Moderate	Key technical decisions are pending and may impact the project schedule and costs (Updated).	This was originally reported in the August 2022 IV&V Monthly Report as a preliminary concern but was upgraded to a risk in September 2022. There are some key technical decisions that are pending (e.g., DocuSign repository, Salesforce org, NIC). Pending decisions could impact progress for configuring the solution for the upcoming Joint Application Design (JAD) sessions in late October 2022 as well as the development of the data conversion plan. These key technical decisions need to be made in a timely manner to prevent impact to the project schedule. Further discussions are still needed to understand potential costs, project impact, and risk mitigation options. A plan of action needs to be developed and closely monitored to manage the many individual but critical tasks needed for timely resolution.		Closed	09/30/22: This was originally reported in the August 2022 V&V Monthly Report as a preliminary concern but was upgraded to and rewritten as a risk this month with recommendations. The project team did discuss a couple possible mitigation strategies to minimize the potential impact to the project schedule of the pending technical decisions. However, there may be other risks that these strategies will create. While it is critical that the decisions are made in a timely manner, it is also important that these options and associated risks must be thoroughly discussed and fully understood by the Project. 10/31/22: Progress was made on key technical decisions but final resolution is still pending. 11/30/22: Key technical decisions were made regarding the system architecture of the DocuSign and Salesforce orgs. Decisions were also made regarding data conversion (e.g., conversion tool, NIC) allowing data conversion planning activities to move forward.		Closed as key decisions were made. Although this risk was addressed, the execution and implementation of the decisions will continue to be monitored for impact to the project. Additionally, as the speed of execution to make these decisions could be improved, we will continue to evaluate schedule management processes in observation 2022.08.002.
People	2022.08.001	Positive	N/A	N/A	The project team environment between Pacxa and DCCA is collaborative and respectful.	The project team members regularly seek feedback, input, and clarification in an open and respectful manner. The experience and knowledge of Pacxa team members combined with the dedication and high level of engagement from DCCA SMEs support the positive project team environment.		Closed	N/A	09/30/22	Closed as this is a positive observation.
Process	2022.08.005	Opportunity	N/A	N/A	Implementation of recurring meetings help to promote frequent and focused discussions.		2022.08.005.R1 – Implement recurring meetings. •Ensure meetings are productive and fosters open and safe communication. •Adjust the cadence as needed depending on the needs and activities of the project.	Closed	09/30/22: Weekly project manager and team meetings were implemented. DCCA also plans to kickoff recurring technical meetings in October 2022. Risks will be discussed in the weekly team meetings. The need for separate risk-focused meetings will be reassessed later.	09/30/22	Closed as the Project established a plan for recurring meetings and began to implement meetings.

Appendix D: Comment Log on Draft Report



Comment Log on Draft Report

BRM Project: IV&V Document Comment Log





ID#	Page #	Comment	Commenter's Organization	Accuity Resolution
1	7	Observation: "Unclear Requirements Management Process" Additional clarification was provided via a demo on February 15th. Is this observation listed here because this is a January report (and would be removed in February)? If so, can this be noted on the January report? Or is there any further clarification required?	Pacxa	This was a preliminary observation only, as additional information was pending. In February, a demo was provided showing traceability between requirements, user stories, test cases, and acceptance criteria through the ADO Tool. The Roll out and training for DCCA on the ADO Tool will be provided in March. All the progress made to address this preliminary observation will be reflected in the February 2023 IV&V report.
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FIRST HAWAIIAN CENTER

ACCUITY LLP

999 Bishop Street

Suite 1900

Honolulu, Hawaii 96813

- Р 808.531.3400
- F 808.531.3433

 $www. {\sf accuityllp.com}$



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