

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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

May 26, 2021

The Honorable Ronald D. Kouchi,
President, and
Members of The Senate
Thirty-First State Legislature
Hawaii State Capitol, Room 409
Honolulu, Hawaii 96813

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

Dear President Kouchi, Speaker Saiki, and Members of the Legislature:

Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation (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's Employer-Union Health Benefits Trust Fund Benefits Administration System 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 (1)



MONTHLY IV&V STATUS REPORT

REPORT FINALIZED

March 23, 2021 | Version 1.0

April 27, 2021





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Document History

DATE	DESCRIPTION	AUTHOR	VERSION
04/05/21	Monthly IV&V Status Report Draft created	Julia Okinaka	0.0
04/27/21	Monthly IV&V Status Report updated to include additional interviewee title in Appendix D. No comments submitted in Appendix F.	Julia Okinaka	1.0



EXECUTIVE SUMMARY

BACKGROUND

The State of Hawaii (State), Employer-Union Health Benefits Trust Fund (EUTF) contracted Morneau Shepell Limited (Morneau Shepell) with their Ariel EAS technology solution for the Health Benefits Administration System Modernization Project (BAS Project) on June 1, 2020. EUTF also contracted Segal to provide project management, business process reengineering (BPR), organizational change management (OCM), and quality management. Segal's subcontractor, ICON Consulting (ICON), is responsible for data consulting and conversion.

The Office of Enterprise Technology Services (ETS) contracted Accuity LLP (Accuity) to provide Independent Verification and Validation (IV&V) services for the EUTF BAS Project. The goal of IV&V is to increase the probability of project success. The benefits of IV&V include identification of high-risk areas early and actionable recommendations.

Following IV&V's Initial Assessment Report, Monthly IV&V Status Reports are issued to update and evaluate continual project progress and performance. Pre and Post Go-Live Implementation Milestone Reports will be issued prior to and after the deployment/completion of major project milestones.

The project completed build and configuration for Interval 4 and the execution for Interval 5 is underway. The focus of our IV&V activities for this report included the completion of a two-month in-depth assessment of testing and review of requirements management.

The IV&V Dashboard on the following two pages provides a quick visual and narrative snapshot of both the project status and project assessment as of March 23, 2021. Refer to Appendix A: IV&V Criticality and Severity Ratings for an explanation of the ratings and Appendix E: Prior Findings Log for prior report findings.

CONTINOUS IMPROVEMENT

"Continuous improvement

is better than delayed perfection."

- Mark Twain



PROJECT ASSESSMENT

AS OF MARCH 23, 2021

SUMMARY RATINGS

OVERALL RATING



Minimal deficiencies were observed. Oversight may be needed to ensure risks stay low and project remains on track.

PROGRAM GOVERNANCE



PROJECT MANAGEMENT



TECHNOLOGY



CRITICALITY RATINGS



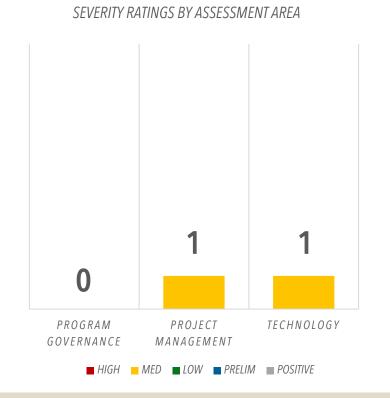




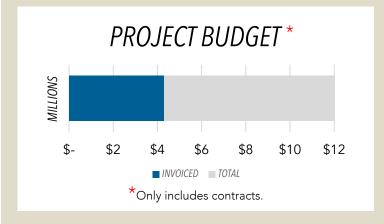


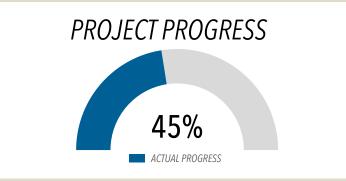


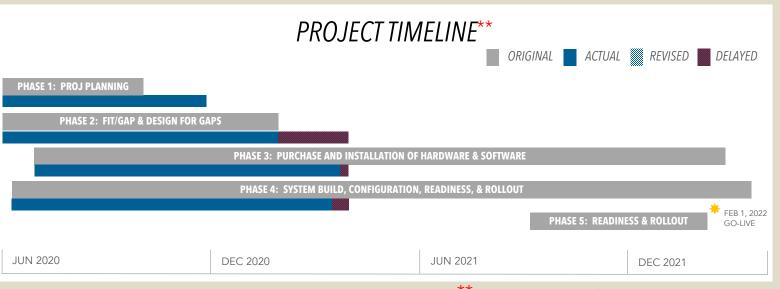
2 OPEN FINDINGS



2 OPEN RECOMMENDATIONS







ASSESSMENT AREA & RATINGS SUMMARY

AS OF MARCH 23, 2021

JAN	FEB	MAR	IV&V ASSESSMENT ARE	A IV&V OBSERVATIONS
G	G	G	Overall	The overall project rating is solid green and reflects the project's continued positive momentum and teamwork. One IV&V Assessment Category improved, and one category declined from the prior report.
				Project Schedule: The project is experiencing some delays detailed below and needs to be analyzed to see if there is an impact to the overall timeline (Refer to finding 2021.02.PM01).
				Project Costs: Project contract costs invoiced to-date approximated \$4,310,000 and are aligned with the project milestone schedule.
				Quality: Quality metrics do no indicate any major concerns with user acceptance testing (UAT) and UAT defect management. Morneau Shepell is still addressing quality concerns related to system demonstrations (Refer to finding 2021.01.IT01).
G	G	G	Program Governance	Project governance continues to be effective. The EUTF Board convened, and the project team updated the trustees on project status, schedule, risks, and issues.
G	6	G	Project Management	The EUTF, Segal, and Morneau Shepell Project Managers continue to refine ongoing project management processes and update reporting metrics in their weekly status reports to include testing and defects. The project is experiencing some schedule delays including the demo of some interval 4 requirements, interval 5 activities, testing and training preparation for Segment 2, environment scan remediation, and data conversion. Requirements related to reports, communications, data interfaces, and workflows are nearly complete; however, they still need to be assigned to intervals so the level of effort for the overall schedule can be accurately planned. Project surveys continue to be administered at regular intervals and initial feedback on the system functionality from Segment 1 testers has been positive.
6		•	Technology	The project is currently in build and configuration for Interval 5. Data Conversion Cycle 2 activities have commenced, and billing records continue to be an issue requiring additional research and extraction effort. EUTF completed three weeks of UAT, and defects continue to be identified, discussed, and resolved together with Morneau Shepell. The UAT environment penetration and vulnerability scan results were provided for EUTF's review and the remediation of vulnerabilities are delayed. EUTF, ETS, and IV&V reviewed the scan results and plans to review monthly scans to monitor and verify remediation efforts. Some improvements were made for Interval 4 demonstrations; however, quality issues continued and a process for analyzing and communicating root causes of these issues are still pending (Refer to finding 2021.01.IT01). Carrier and Employer meetings provide Ariel system overviews and preliminary discussions related to interface files and testing.

FINDINGS AND RECOMMENDATIONS BY ASSESSMENT AREA



OVERALL RATING

The overall rating is assigned based on the criticality ratings of the IV&V Assessment Categories and the severity ratings of any underlying findings (see Appendix A: IV&V Criticality and Severity Ratings). The tables below summarize the criticality ratings for each IV&V Assessment Category in each of the three major IV&V Assessment Areas. The criticality rating for ten IV&V Assessment Categories are solid green. One IV&V Assessment Category improved, and one category declined from the prior report.

AT-A-GLANCE

QUALITY METRICS tracked and communicated

STAKEHOLDER COMMUNICATION on target for Carriers and Employers

SCHEDULE MANAGEMENT CONTROL activities need improvement

JAN	FEB	MAR	PROGRAM GOVERNANCE
G	G	G	Governance Effectiveness
G	G	G	Benefits Realization
JAN	FEB	MAR	TECHNOLOGY
G	G	G	System Software, Hardware, and Integrations
G	G	G	Data Conversion
Y	Y	Ŷ	Quality Management and Testing
G	G	G	Configuration Management
G	G	G	Security
NA	NA	NA	Deployment and Operations

JAN	FEB	MAR	PROJECT MANAGEMENT
G	G	G	Project Organization and Management
G	G	G	Requirements Management
G	Y	Y	Cost, Schedule, and Resource Management
G	G	G	Risk Management
G	G	G	Communications Management
G	G	G	Organizational Change Management (OCM)
G	G	G	Business Process Reengineering (BPR)
G	G	G	Training and Knowledge Transfer



PROGRAM GOVERNANCE

Governance Effectiveness

Benefits Realization



JAN	AN FEB MAR	IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS			
JAN	FEB	IVIAR	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
G	G	G	Governance Effectiveness	Project governance continues to be effective. The EUTF Board convened, and the project team updated the trustees on project status, schedule, risks, and issues.	0	0	0
G	G	G	Benefits Realization	Project metrics and critical success factors are defined, and applicable metrics are discussed weekly including the schedule, scope, and issues.	0	0	0



PROJECT MANAGEMENT

Project Organization and Management

Requirements Management

Cost, Schedule, and Resource Management

Risk Management

Communications Management

Organizational Change Management

Business Process Reengineering

Training and Knowledge Transfer



PROJECT MANAGEMENT

JAN	FEB MAR	D IV&V ASSESSMENT	NAM ORSEDVATION	FINDINGS			
JAN	LED	IVIAR	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
G	G	G	Project Organization and Management	The EUTF, Segal, and Morneau Shepell Project Managers continue to refine ongoing project management processes and update reporting metrics in their weekly status reports to include UAT and defects.	0	0	3
G	6	•	Requirements Management	The project involves project stakeholders through daily Joint Stand-up meetings to continue to clarify requirements and business rules. Requirements related to reports, communications, data interfaces, and workflows are nearly complete; however, they still need to be assigned to intervals so the level of effort for the overall schedule can be accurately planned.	0	0	0
•			Cost, Schedule, and Resource Management	Project contract costs invoiced to-date approximated \$4,310,000 and are aligned with the project milestone schedule. The project is experiencing some delays including the the demo of some interval 4 requirements, Interval 5 activities, testing and training preparation for Segment 2, environment scan remediation, and data conversion. These delays need to be analyzed for impacts to the overall timeline (Refer to finding 2021.02.PM01).	0	1	0



PROJECT MANAGEMENT

Project Organization and Management

Requirements Management

Cost, Schedule, and Resource Management

Risk Management

Communications Management

Organizational
Change Management

Business Process Reengineering

Training and Knowledge Transfer

		IV&V ASSESSMENT		FINDINGS		S	
JAN	FEB	MAR	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
G	G	G	Risk Management	New and existing risks and issues, including IV&V identified findings, are tracked and openly discussed in project meetings and appropriately escalated to project management. Risks and issues continue to be evaluated for appropriate impact ratings, likelihood ratings, and risk response activities.	0	0	0
G	G	G	Communications Management	With strong support by the Segal Project Manager, the project effectively keeps project stakeholders informed and engaged through presentations, training, surveys, and identification of change champions. Carrier and Employer meetings providing Ariel system overviews, high level timelines, and preliminary discussions related to upcoming project activities have resulted in informal positive feedback.	0	0	0
6	6	G	Organizational Change Management (OCM)	EUTF identified a Change Lead and Change Champion network. A meeting with the Change Champion network is planned for late March 2021 and they plan to continue documenting specific change and communication activities.	0	0	0
6	6	G	Business Process Reengineering (BPR)	The EUTF Project Manager conducted a preliminary review of the OCM and BPR Plan. Business process improvements through system functionality continue to be explored and discussed. More targeted BPR activities will be reviewed in upcoming months.	0	0	0
G	6	G	Training and Knowledge Transfer	Segment 1 UAT training was completed to prepare EUTF UAT activities. Survey results to understand the effectiveness of the Segment 1 training to support UAT will be collected and reviewed in early April 2021. Training plans and materials for Segment 2 are delayed and will be provided in April 2021.	0	0	0



TECHNOLOGY

System Software, Hardware, and Integrations

Data Conversion

Quality Management and Testing

Configuration Management

Security

Deployment and Operations



TECHNOLOGY

JAN	FFD	FEB MAR	IV&V ASSESSMENT	IV(D) / ODCEDVATION	FINDINGS		
JAN	FEB	- IVIAR	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
G	G	G	System Software, Hardware, and Integrations	The project is currently in build and configuration for Interval 5. Carrier interface questionnaires were distributed, and 834 interface file meetings continued through March. Carrier and Employer meetings provide Ariel system overviews and preliminary discussions related to interface files and testing.	0	0	1
•	•	•	Data Conversion	Data Conversion Cycle 2 activities have commenced, and billing records continue to be an issue requiring additional research and extraction effort. ICON's high-level data reconciliation process was approved by EUTF, and more detailed process steps are still pending finalization. EUTF, Morneau Shepell, and ICON continue to meet weekly to perform and clarify activities related to data groups, layouts, extracts, mapping, and data quality scripts/reports.	0	0	0
		☆	Quality Management and Testing	Quality metrics do not indicate any major concerns with UAT and UAT defect management. Some improvements were made for Interval 4 demonstrations; however, quality issues continued and a process for analyzing and communicating root causes of these issues are still pending (Refer to finding 2021.01.IT01). Project surveys continue to be administered at regular intervals and initial feedback on the system functionality from Segment 1 testers has been positive.	0	1	0
G	G	G	Configuration Management	No significant changes for configuration management to report since last month.	0	0	0



TECHNOLOGY

System Software, Hardware, and Integrations

Data Conversion

Quality Management and Testing

Configuration Management

Security

Deployment and Operations

JAN	FEB	FFB MAB	MAR IV&	IV&V ASSESSMENT	IV&V ASSESSMENT IV&V OBSERVATION	FINDINGS		
JAN	FED	WAR	CATEGORY	IVAV OBJERVATION	NEW	OPEN	CLOSED	
G	G	•	Security	The UAT environment penetration and vulnerability scan results were provided for EUTF's review and the remediation of vulnerabilities are delayed. EUTF, ETS, and IV&V reviewed the scan results and plan to review monthly scans to monitor and verify remediation efforts.	0	0	0	
NA	NA	NA	Deployment and Operations	Deployment activities are not occurring at this stage of the project.	0	0	0	



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 and IV&V Assessment Category. Severity ratings are assigned to each risk or issue identified.

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 and IV&V Assessment Category, the overall impact of the related findings 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 findings. No arrow indicates there was neither improving nor declining progress from the prior report.

TERMS

RISK

An event that has not happened yet.

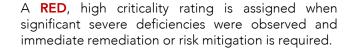
ISSUE

An event that is already occurring or has already happened.















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).

Findings that are positive or preliminary concerns 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

Potential risk

requiring further analysis.

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
HIPAA	Health Insurance Portability and Accountability Act of 1996
MARS-E v2.0	CMS Minimum Acceptable Risk Standards for Exchanges – Exchange Reference Architecture Supplement
MITA v3.0	Medicaid Information Technology Architecture
PMBOK® v6	Project Management Institute (PMI) Project Management Body of Knowledge
SWEBOK v3	Guide to the Software Engineering Body of Knowledge
TOGAF® v9.2	The Open Group Architecture Framework Standard
COBIT® 2019 Framework	Control Objectives for Information and Related Technologies Framework
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 16085:2006	ISO/IEC Systems and Software Engineering – Life Cycle Processes – Risk Management



STANDARD	DESCRIPTION
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
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 24748-3-2012	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 14764-2006	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 42010-2011	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Architecture Description
IEEE 29119-1-2013	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 1: Concepts and Definitions
IEEE 29119-2-2013	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 2: Test Processes
IEEE 29119-3-2013	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 3: Test Documentation
IEEE 29119-4-2015	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 4: Test Techniques



STANDARD	DESCRIPTION
IEEE 1484.13.1-2012	IEEE Standard for Learning Technology – Conceptual Model for Resource Aggregation for Learning, Education, and Training
ISO/IEC TR 20000- 11:2015	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 27002:2013	Information Technology – Security Techniques – Code of Practice for Information Security Controls
SAML v2.0	Security Assertion Markup Language v2.0
SoaML v1.0.1	Service Oriented Architecture Modeling Language
CMMI-DEV v1.3	Capability Maturity Model Integration for Development
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: IV&V Monthly Status

MAIN IV&V ACTIVITIES AND ACCOMPLISHMENTS

MAIN IV&V ACTIVITIES AND ACCOMPLISHMENTS

Participated in Hawaii EUTF project management, acceptance criteria, data conversion, technical, defect, and joint stand-up meetings

Participated in Employer and Carrier meetings

Presented at the EUTF Board Meeting

Reviewed the Security Assessment and netsparker detailed scan results of four environments

Reviewed UAT testing and defect tracking tools and results

Reviewed ALM for requirements management and traceability

Finalized February Monthly IV&V Status Report and submitted Draft March 2021 Monthly IV&V Status Report

KEY UPCOMING IV&V DELIVERABLES

KEY IV&V DELIVERABLES	DRAFT DUE DATE	DRAFT SUBMITTED	FINAL SUBMITTED
March 2021 Monthly IV&V Status Report	03/23/21	04/05/21	04/27/21

PRIOR IV&V APPROVED DELIVERABLES

DELIVERABLE	AS OF DATE	APPROVED DATE
IV&V Project Management Plan (IVVP)	N/A	07/22/20
Initial Assessment Report	06/26/20	07/29/20
July 2020 Monthly IV&V Status Report	07/24/20	08/20/20
August 2020 Monthly IV&V Status Report	08/25/20	09/25/20
September 2020 Monthly IV&V Status Report	09/25/20	10/19/20



PRIOR IV&V APPROVED DELIVERABLES (CONTINUED)

DELIVERABLE	AS OF DATE	APPROVED DATE
October 2020 Monthly IV&V Status Report	10/27/20	11/25/20
November 2020 Monthly IV&V Status Report	11/25/20	12/14/20
December 2020 Monthly IV&V Status Report	12/22/20	02/02/21
January 2021 Monthly IV&V Status Report	01/26/20	02/25/21
February 2021 Monthly IV&V Status Report	02/23/20	03/31/21



Appendix D: Interviews, Meetings, and Documents

INTERVIEWS

DATE	INTERVIEWEE
03/18/21	Morneau Shepell UAT Lead and Director - Implementation: UAT, Defect Management, Requirements Management, and ALM
03/19/21	Member Services Section Clerical Supervisor III: EUTF UAT Overview and Process

MEETINGS

DATE	MEETING DESCRIPTION
02/24/21	EUTF - Joint Stand-up Meeting
02/25/21	EUTF - Joint Stand-up Meeting
02/25/21	ETS and IV&V Schedule Update
02/26/21	EUTF - Joint Stand-up Meeting
03/01/21	EUTF - Joint Stand-up Meeting
03/01/21	EUTF/ICON/MS Data Conversion Weekly Meeting
03/02/21	EUTF - Joint Stand-up Meeting
03/02/21	Humana EDI Questionnaire & Documentation Review
03/02/21	EUTF - Joint Weekly Project Team Meeting
03/03/21	EUTF - Joint Stand-up Meeting
03/03/21	Requirements Acceptance Criteria
03/04/21	EUTF - Joint Stand-up Meeting
03/04/21	EUTF New Benefits Administration System with County of Hawaii and HIDWS



MEETINGS (CONTINUED)

DATE	MEETING DESCRIPTION
03/04/21	Securian EDI Questionnaire & Documentation Review
03/05/21	EUTF - Joint Stand-up Meeting
03/05/21	EUTF - Monthly Technical Meeting
03/05/21	CVS/SSI EDI Questionnaire & Documentation Review
03/08/21	EUTF/ICON/MS Data Conversion Weekly Meeting
03/08/21	EUTF - Joint Stand-up Meeting
03/08/21	March IV&V Update Meeting
03/09/21	EUTF - Joint Stand-up Meeting
03/09/21	EUTF - Joint Weekly Project Team Meeting
03/09/21	EUTF Demo Day 1 (Interval 4)
03/10/21	HDS EDI Questionnaire & Documentation Review
03/10/21	EUTF - BAS Joint Monthly Steering Committee Meeting
03/10/21	Kaiser EDI Questionnaire & Documentation Review
03/10/21	EUTF - Historical Billing Transactions
03/11/21	EUTF - Joint Stand-up Meeting
03/11/21	EUTF - Hawaii CRAID Log for Data Conversion Activities
03/11/21	EUTF Demo Day 2 (Interval 4)
03/12/21	EUTF - Joint Stand-up Meeting
03/12/21	EUTF Demo Day 3 (Interval 4)
03/15/21	EUTF - Joint Stand-up Meeting



MEETINGS (CONTINUED)

DATE	MEETING DESCRIPTION
03/15/21	EUTF/ICON/MS Data Conversion Weekly Meeting
03/15/21	EUTF New Benefits Administration System with County of Honolulu and Board of Water Supply
03/16/21	EUTF - Joint Stand-up Meeting
03/16/21	EUTF New Benefits Administration System with Department of Education
03/16/21	EUTF - Joint Weekly Project Team Meeting
03/17/21	EUTF - Joint Stand-up Meeting
03/17/21	EUTF New Benefits Administration System with University of Hawaii
03/17/21	EUTF/IVV: Pen Test and V Scan Results
03/18/21	EUTF - Joint Stand-up Meeting
03/18/21	EUTF New Benefits Administration System with Judiciary
03/18/21	Requirements Acceptance Criteria
03/18/21	EUTF New Benefits Administration System with County of Kauai
03/19/21	EUTF - Joint Stand-up Meeting
03/22/21	EUTF - Joint Stand-up Meeting
03/22/21	EUTF/ICON/MS Data Conversion Weekly Meeting
03/22/21	EUTF - UAT Defect Status and Review
03/23/21	EUTF Board Meeting
03/23/21	EUTF New Benefits Administration System with ETS and DAGS
03/23/21	EUTF - Joint Weekly Project Team Meeting



DOCUMENTS

ТҮРЕ	DOCUMENT
Morneau Shepell Proposal	EUTF BAS RFP 20-002 - Morneau Shepell BAFO Response to BAS Project Oral Presentation Demo Question Requests - FINAL
Request for Proposal	State of Hawaii EUTF BAS RFP No. RFP-20-001 for Project Management and Consulting Services (Release Date 09/25/19)
Segal Proposal	BAFO for RFP No. RFP-20-001 for Project Management and Consulting Services (Effective 03/16/20)
Request for Proposal	State of Hawaii ETS RFP-19-010 EUTF BAS IV&V
Accuity Proposal	Accuity LLP EUTF IVV Proposal RFP-19-010 FINAL
Contract	Morneau Shepell Limited Contract (effective 06/01/20)
Contract	Segal Company Contract (effective 06/01/20)
Contract	Accuity Contract (effective 06/01/20)
Budget	New BAS Budget Worksheet
Project Management	Hawaii EUTF Morneau Shepell Project Kick-Off – FINAL (06/04/20)
Project Management	EUTF – Monthly Technical Meeting – 2021-03-02
Project Management	EUTF – Weekly Project Team Status – 2021-03-09
Project Management	EUTF – Weekly Project Team Status – 2021-03-23
Project Management	EUTF – Weekly Project Team Status – 2021-03-09
Project Management	20210228 Segal Monthly Status Report
Project Management	20210301 Segal EUTF Status Report
Project Management	20210308 Segal Monthly Status Report
Project Management	20210315 Segal EUTF Status Report
Project Management	20210322 Segal EUTF Status Report
Project Management	Hawaii EUTF_ICON Status Report – Week Ending 03 05 2021
Project Management	Hawaii EUTF_ICON Status Report – Week Ending 03 12 2021



DOCUMENTS (CONTINUED)

ТҮРЕ	DOCUMENT
Project Management	Hawaii EUTF_ICON Status Report – Week Ending 03 19 2021
Project Management	EUTF – Joint SC Meeting – 2021-03-10.pptx
Project Management	EUTF Data Quality – Migration Project Plan V16
Risk and Issues	EUTF – CRAID Log
Schedule	Hawaii (EUTF) – BAS Work Plan
Discovery Session	EUTF – Client RTM
Deliverable	Hawaii EUTF – BAS Implementation - Charter, Scope, and Management Plan
Deliverable	EUTF Quality Management Plan_2020.10.14
Deliverable	Ariel EAS BAS Architecture Overview
Deliverable	Ariel EAS Security Plan – EUTF
Deliverable	Patch_Deployment_Process_v1.16-EN
Deliverable	Vulnerability Management_v1.09b
Deliverable	EUTF – UAT Testing Strategy – Segment 1
Deliverable	EUTF OCM and BPR Plan
Deliverable	BPR and OCM Activities
Security	Security Assessment Report-EUTF_v1.02.docx
Security	2021-03-04-ap-eutf-bat.uat.hroffice.com-Detailed-Scan-Report
Security	2021-03-04-ap-eutf-cfg.uat.hroffice.com-Detailed-Scan-Report
Security	2021-03-04-ee-eutf-bat.uat.hroffice.com-Detailed-Scan-Report
Security	2021-03-04-ee-eutf-cfg.uat.hroffice.com-Detailed-Scan-Report
Survey	BAS Survey 202103
Testing	Segment 1 Testing 20210218



Appendix E: Prior Findings Log



Appendix E: Prior Findings Log

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE CLOSED DATI	E CLOSURE REASON
Cost, Schedule, and Resource Management	2021.02.PM01	Risk	Moderate	Moderate	Current schedule delays may impact the overall project timeline.	Morneau Shepell has schedule management processes in place to report and track schedule variances. Furthermore, the project already proactively identified and actively reports on project risks related to the pace of intervals, insufficient time, and resources available to build and configure all EUTF requirements, and concern that complex functions and features are not being built early enough to allow for sufficient testing and quality reviews. However, even with these schedule management processes in place, the project continues to experience delays which may impact the overall project timeline and rigid Go-Live date of February 1, 2022: • The project is experiencing some delays including build and configuration for Interval 4, data conversion, environment set up, and Morneau Shepell Segment 1 testing. • Requirements tagged to specific intervals continue to be deferred to later intervals. Although the deferral of project requirements were expected in earlier intervals as Morneau Shepell gained a clearer understanding of EUTF needs and expectations, requirements tagged to Interval 4 continue to be tagged to later intervals. • The RTM requirements related to reports, communications, data interfaces, and workflows have not been fully identified and assigned to intervals so the level of effort for the overall schedule cannot be planned at this time. • Data conversion for certain records continues to be delayed due to the complexity of the billing data and reliance on the current EUTF BAS Vendor to assist with extraction and correction to data extracts; and need for EUTF resources to map and resolve data extraction issues. Greater attention and rigor to schedule delays is needed to ensure that schedule delays do not impact the overall project timeline and success of the project.	2021.02.PM01.R1	Increase schedule management control activities.	Increase the rigor related to task and schedule delays including root cause analysis, discussions of mitigation plans, and reviews of mitigation tasks effectiveness to ensure schedule delays are timely addressed. Regularly reassess and readjust the project schedule estimates and assumptions. Consider all options for mitigating risk including adding resources, performing work in parallel, redistributing work in future development intervals, and reprioritizing remaining work.	Open	03/23/21: Morneau Shepell made some progress in addressing certain project delays and trying to move up requirements earlier to address risks related to the pace of intervals and balance of functionality. However, other activities are slipping including training and testing activities for Segment 2. It is too early to determine if requirements tagged to Interval 5 will be completed as planned or if a significant number will need to be deferred. More formalized processes need to be performed to ensure schedule delays are timely identified and addressed. IV&V will continue to assess schedule management control activities.	E CLOSURE REASON
Quality Management and Testing	2021.01.IT01	Risk	Moderate	Moderate	may impact the effectiveness of system	Periodic system demonstrations are one method for Morneau Shepell to share what functionality has been completed during the current interval. The requirements being demonstrated should be completely configured, tested, documented, and reviewed in advance of the system demonstration. If done successfully, system demonstrations not only help verify requirements and design, but also build confidence and customer satisfaction. The following problems were observed with the system demonstrations: • Interval 1 and 2 functionalities were demonstrated through a combination of slideshows and live system walkthroughs. Based on feedback received from EUTF, Interval 3 functionalities were demonstrated in the live system; however, there were multiple system errors and problems with prepared sample transactions and data. • Inability to show completeness of configuration to meet 100% of completed interval requirements. • Testing and quality processes did not identify the issues encountered during the system demonstrations. • Lack of a formal process to record incidents and problems during the demonstration, identify root causes, and track their resolution. • The inability to clearly track issues to resolution in a timely manner may negatively impact client confidence.		Evaluate testing and quality processes.	 Use quality assurances processes to analyze results and issues to identify the root cause, improve tracking of issues to system functionality/requirements, make appropriate corrective actions, and record lessons learned. Morneau Shepell should review the demonstration results including anomalies encountered and identify follow-up actions. The project team should conduct a project retrospective after each interval demonstration to facilitate practical steps for improvement and promote improved stakeholder buy-in and confidence. 	Open	02/23/21 and 03/23/21: Morneau Shepell discussed the challenges associated with the system demonstrations at the February and March Steering Committee meetings. A more formalized analysis needs to be conducted to identify the root causes and track the issues to ensure appropriate corrective actions are taken. The risk has been added to the project risk log for tracking and monitoring. IV&V will continue to assess quality management and testing processes.	

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION STAT	NG JS FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
System Software, Hardware, and Integrations	2020.11.IT01	Positive	N/A N/A	flexibility and collaboration	The Morneau Shepell technology team: Works collaboratively with EUTF to understand the technical requirements, answer questions, and adjust the solution to find the best fit for EUTF Demonstrates a willingness to be transparent and openly share Morneau Shepell's IT practices, policies, standards, and personnel roles and responsibilities to develop, maintain, secure, operate, and support the system Provides documentation and ongoing clarification of the Ariel BAS solution's infrastructure, security, and disaster recovery architecture Through the involvement of key IT resources, shows commitment to the overall success of the project and being a trusted partner with the State of Hawaii This approach has helped EUTF gain comfort with the Morneau Shepellmanaged Azure environment and how the solution aligns with EUTF's security, availability, system operations, and confidentiality requirements.		N/A for positive findings.	N/A for positive findings. Close	d N/A	12/22/2020	Closed as this is a positive finding.
Project Organization and Management	2020.08.PM01	Risk	Low	The COVID-19 pandemic may impact project schedule, resources, and costs.	The COVID-19 pandemic creates uncertainty with rapidly evolving government responses and restrictions and changing circumstances. The following a summary of the related events and facts: • A second stay-at-home/work-at-home order went into effect August 27, 2020 for Honolulu City and County and will last for at least 14 days. EUTF employees are deemed essential. All key EUTF project employees will have the ability and equipment to work from home in the event of an office closure by the end of September. All project contractors already work remotely effectively. • The State is reviewing budgets and positions to make significant changes due to anticipated revenue shortfalls. The State also implemented a hiring freeze and is contemplating furloughs or salary cuts for State workers. • EUTF has several open positions that could play essential roles on the project. EUTF's request to fill these positions is pending. • The project timeline and go-live dates do not have much room to be extended due to the annual benefit plan enrollment season. Any delays that postpone go-live beyond the enrollment season could impact project costs.		Formulate processes for how to respond to COVID-19 impacts to the project.	EUTF, project contractors, and subcontractors should timely complete a back-up resources matrix including a list of key project resources, their key primary functions, and potential backup resources in case of their inability to work. Assess COVID-19 direct and indirect impacts to the project and prepare contingency plans for possible scenarios. Ensure all key EUTF project team members have the necessary access, equipment, and technology to work remotely effectively.	9/25/20: The COVID-19 finding has been partially mitigated by ensuring all key EUTF project team members have computers and access to work remote and additional headcount approved to support the project and operations. Project tools and practices such as a joint project SharePoint site and regular recurring meetings also help the teams work effectively together from remot locations. The project contractors agreed to develop back-up resource matrices. 10/27/20: EUTF, Morneau Shepell, Segal, and ICON worked together to identify back-up resources for each key project team member to ensure resource continuity.	ely ·, e	Closed as all recommendations were adequately addressed. A COVID-19 risk has been added to the project's risk log so direct and indirect COVID-19 related impacts will be continuously assessed.
Project Organization and Management	2020.07.PM02	Risk	Moderate Moderate	and deliverables beyond oversight of Morneau Shepell, including OCM, BPR, and quality management. Segal's project deliverables, schedule, and processes have yet to be formally documented and scheduled, which could impact the execution of Segal, ICON,	Segal was contracted to provide various project management, OCM, BPR, data conversion, and quality management services for EUTF. Segal is effectively monitoring and reviewing Morneau Shepell activities and deliverables but does not yet have a schedule for ICON's and their own independent deliverables for this project. Segal established a dashboard and regularly submits reports to EUTF; however, thus far, these reports focus mainly on Morneau Shepell and do not include sufficient updates regarding Segal and ICON's own activities, progress, and risks. Additionally, Segal's processes in the areas of schedule, resource, cost, and quality management are still being developed and documented. Segal's deliverables include a BPR and OCM plan. Segal prepared a presentation, developed a tracking tool, and held a workshop to explain their BPR and OCM methodology, however, we are not aware of whether a formally documented plan or schedule of BPR and OCM tasks and resources has been prepared and delivered to EUTF for review. Further discussion of purpose and expectations for this deliverable is still needed. ICON is responsible for data cleansing and data conversion activities. The project team identified two risks and one issue and are experiencing some delays related to data conversion. Clarifying ICON deliverables, schedule, processes, and reporting may help to prevent further issues and delays. Possible root causes or contributing factors are an aggressive project pace and competing priorities. Both the Segal Project Manager and the EUTF Project Manager are extremely hard-working and may not have adequate time to participate in on-going Discovery Sessions and perform all of the required project management tasks. EUTF and Segal will need to work together to establish appropriate project management processes and clarify the priority of deliverables and schedules. Although this finding is reported under the Project Organization and Management IV&V Assessment Category, this finding also impacts the criticality ratings fo	2020.07.PM02.R2 2020.07.PM02.R3	Clarify Segal and ICON deliverables. Develop a project schedule to manage Segal, ICON, and EUTF tasks. Develop and clarify Segal, ICON, and EUTF processes.	Close deliverables. Consider whether contracted deliverables still make sense based on project needs. Provide the appropriate detail of tasks, durations, due dates, milestones, and deliverables for various parties. Key processes include resource and schedule management, cost management, BPR, OCM, quality management, data cleansing, and data conversion. Consider including Segal, ICON, and EUTF's status and metrics in existing reports and dashboards. Consider including Segal, ICON, and EUTF status and activities in recurring project management meetings to promote even greater project cohesion.	O8/25/20: Segal and ICON made good progress on clarifying deliverables and project activities related to their responsibilities. EUTF, Segal, and IV&V started monthly check-in meetings and discussed Segal's "just-in-time" approach to OCM and BPR. The EUTF PM confirmed approval of this approach with preliminary activities occurring before OCM and BPR plans ar formalized. ICON clarified their Data Quality Check Point (DQCP) process and preliminary results from defined business rules. Accuity closed recommendation 2020.07.PM02.R1 as IV&V received sufficient clarification of Segal and ICON deliverables. Segal provided a deliverables schedule and ICON provided a work plan tracking the status of tasks. Segal provided a high level deliverable project schedule with duration, status, start and finish dates, and resources. The specific resources and tasks were not identified for key activities such as OCI and BPR; however, Segal noted that they would develop more detailed plan based on resource availability and bandwidth starting in December 2020. Other EUTF tasks are currently tracked in the RTM, Segal's Dashboard, and independently by EUTF project team members. Accuity closed recommendation 2020.07.PM02.R2 as IV&V received sufficient clarification of Segal and ICON's schedules for this stage of the project. More clarity was provided for key processes on OCM, quality, data validation and migration. Segal delivered a draft Quality Management Plan on 8/25/2 and scheduled a test planning meeting in September. ICON held a meeting to review their DQCP process and provided a high level DQCP Validation Consolidation processes including BPR and quality management. 09/25/20: Quality processes and metrics are well-defined and communicate through the draft Quality Management Plan. BPR activities continued throug meetings, Fit Gap sessions, and solution demonstrations. Data migration and cleansing processes were more clearly defined through the draft Data Migration Plan, weekly data conversion meetings and DQCP / Validation meet	e f M s d gh	Closed as the Segal and ICON deliverables, activities and schedules have been clarified and approved by EUTF. In addition, key processes were defined and communicated through meetings, plans and metrics. Segal and ICON's status and activities are included in reports to the Joint Steering Committee.

ASSESSMENT CATEGORY	FINDING	G ID TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Project		.PM01 Positive	N/A	N/A	The project team continues to work	The project team members have:	N/A	N/A for positive findings.	N/A for positive findings.	Closed	N/A	8/25/2020	Closed as this is a positive finding.
Organization and						Encouraged EUTF SMEs to openly discuss areas of confusion and							
Management					·	request for improvements to working sessions.							
					· ·	Listened to feedback from project team members and timely							
						implemented improvements to project processes (e.g., including							
						incorporating solution demonstrations and introducing project team							
						members).							
						Openly discussed possible solutions to address areas of concern.							
						Continue to proactively ask for feedback after meetings and working							
						sessions.							
						Openly discussed project risks and issues with all project team members.							
						This approach has helped team members to build a high level of comfort							
						with each other and has contributed to a smoother execution of the							
						planning phase of the project.							

Appendix F: Comment Log on Draft Report



Appendix F: Comment Log on Draft Report

Hawaii EUTF BAS Project: IV&V Document Comment Log





ID#	Page #	Comment	Commenter's Organization	Accuity Resolution
1		No Hawaii EUTF or ETS Comments.		
2				
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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.accuityllp.com



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