

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

October 27, 2022

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

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

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

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



Final IV&V Status Report for Reporting Period: August 1-31, 2022

Submitted: September 14, 2022



Overview

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



Executive Summary

Executive Summary



The Health Analytics Program (HAP) project team was focused on a variety of activities in this reporting period, including continued planning activities to prepare for the onboarding of the Integrated Data and Analytic Platform (IDAP) vendor in October 2022, key activities include:

- Planning and conducting the HAP Visioning and Needs Assessment that will provide additional details on the requirements and business needs.
- The HAO and PMO vendor continued working with AHCCCS to identify and decide which existing Data Warehouse data tables will be transformed into the HAP platform.
- The project deliverables being developed include:
 - Data Governance Project and Program Charter
 - Data Governance Orientation Program Methodology
 - UH User Acceptance Test Plan
 - UH Data Collection and Integration Plan.
- The PMO vendor updated and tracked progress to the IDAP Pre-Planning Program Schedule.
- The IDAP and Strategic Planning procurements are in-process.

The availability of the planned HAP Resources preliminary concern was updated to a risk this month, the lead time to prepare for the IDAP vendor is closing and there are outstanding tasks to be completed. The HAO is already taking action to mitigate or minimize this risk.

Additionally, the HAO has a planned meeting with CMS next month to gain a clear understanding of CMS' expectations for the HAP Certification process.

Jun	Jul	Aug	Category	IV&V Observations
N/A	N/A	M	Project Management	The availability of the planned HAP resources needed for the project is now a risk to the Program to not only prepare for the IDAP vendor onboarding but also to support the final start-up activities and begin execution.
N/A	N/A	N/A	Quality Management	There are no IV&V observations for this category due to the projects current phase in this reporting period.

Executive Summary



Jun	Jul	Aug	Category	IV&V Observations
N/A	N/A	N/A	Requirements Management	There are no IV&V observations for this category due to the projects current phase in this reporting period.
N/A	N/A	N/A	Operating Environment	There are no IV&V observations for this category due to the projects current phase in this reporting period.
N/A	N/A	N/A Development Environment There are no IV&V observations for this category due to the projects current phase in this reporting period.		
N/A	N/A	N/A	Software Development	There are no IV&V observations for this category due to the projects current phase in this reporting period.
N/A	N/A	N/A	System and Acceptance Testing	There are no IV&V observations for this category due to the projects current phase in this reporting period.
N/A	N/A	N/A	Data Management	There are no IV&V observations for this category due to the projects current phase in this reporting period.
N/A	N/A	N/A	Operations Oversight There are no IV&V observations for this category due to the projects current phase in this reporting period.	
N/A	N/A	N/A	CMS Outcomes Based Certification	There are no IV&V observations for this category due to the projects current phase in this reporting period.



Preliminary Concerns Investigated During the Reporting Period

#	Finding	Category
4	Roles and Responsibilities: The HAP is comprised of several vendors providing specific services to support the program, requiring close communication and coordination of the activities and tasks in all phases of the HAP. Clearly documented roles and responsibilities should be established to ensure that the integration points and decision-makers are identified, and each vendor performs to those expectations. Initially, as the roles and responsibilities are developed, gaps may be identified that require attention. As the earlier gaps are identified and addressed, the risk to the program decreases. Additionally, the roles and responsibilities may also aid the program team to think/act holistically and cohesively, avoiding work compartmentalized by silos. The HAO required each vendor to develop a Project Management Plan which should include the generation of the roles and responsibilities. Once established, IV&V will validate it includes the level of detail and crossfunctional aspects that are necessary to minimize risk. August Status Update: No material change in this reporting period. This preliminary concern will remain open until after the onboarding of the IDAP Vendor planned to occur in October 2022.	Project Management



Findings Opened During the Reporting Period

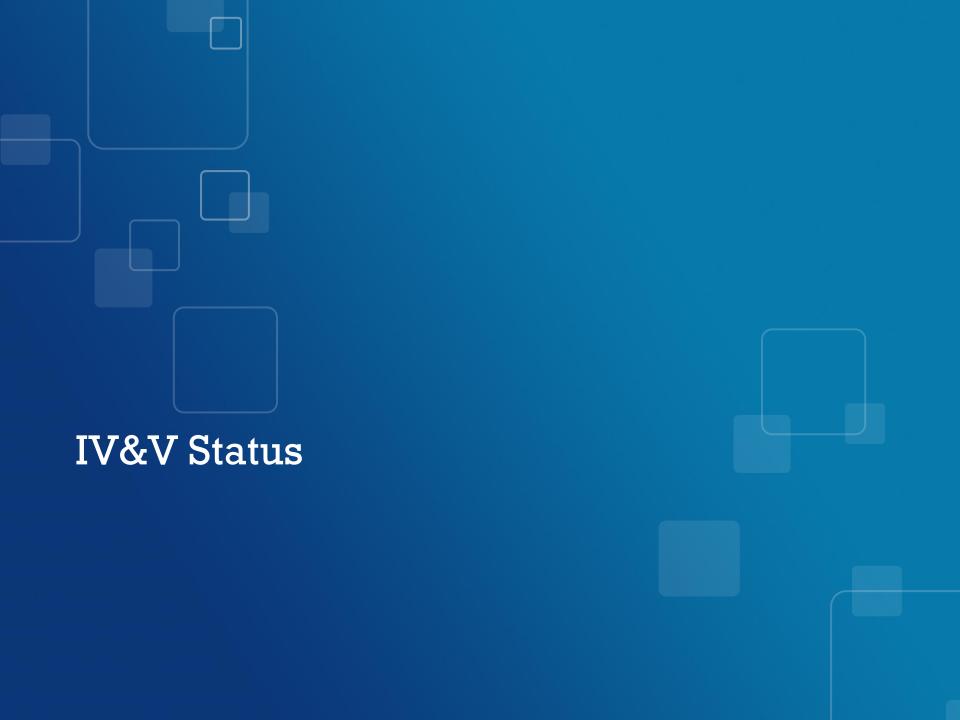
#	Finding	Category
	No findings were opened in this reporting period	



Project Management

#	Key Findings	Criticality Rating
	Risk: The lack of all required HAP project and program staff may cause delays in the HAP start-up/planning and execution phases.	
2	Observation: The Implementation Advanced Planning Document (IAPD) identifies several project resources that have yet to be obtained, including positions within the HAO, the University of Hawaii and AHCCCS. This may have a negative impact on the program and subsequent projects. The resources identified in the IAPD should be available to work on the project prior to the IDAP vendor onboarding to avoid rework, schedule delays, and overall productivity loss of the Program/Project Teams.	M
	August Status Update: Minimal progress was made on the three open HAO positions; recruiting is in progress for two positions and one position is progressing through the approval process. UH has made some progress, as the associate director role was filled, with a start date of January 1, 2023. UH continues to work with another UH group to fill open positions. AHCCCS has not seen any interest in the roles they have posted however, they have been able to work with the staff they have in place to support the HAP.	

Recommendations	Progress
Continue to take the actions already in progress to hire the required staff.	In process
If feasible, consider filling open positions with contract staff.	In process
 As the IDAP vendor is planned to onboard in October, prioritize the work for the other vendors to be as prepared as possible. 	In process
 If required work is postponed as priorities are established, plan for the possibility of short- or longer-term additional resource needs to avoid down-stream schedule delays. 	Not started



IV&V Engagement Status



IV&V Engagement Area	Aug	Comments	
IV&V Budget		There are no IV&V budget updates in this reporting period.	
IV&V Schedule		There are no IV&V schedule updates in this reporting period.	
IV&V Deliverables		The July Draft and Final IV&V Monthly Status Report were delivered ontime.	
IV&V Staffing		Effective 8/26/2022 Al Pangelinan is no longer on the IV&V team. Rick Cavazos joined the IV&V team on 8/22/2022.	
IV&V Scope		There are no IV&V scope updates in this reporting period.	
CMS Outcomes Based Certification		The HAO has and will continue discussions with CMS to ensure the HAP clearly understands and meets CMS' Certification expectations.	

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

IV&V Activities



- IV&V activities in the August reporting period:
 - The Draft and Final July Monthly Status Report was delivered
 - Conducted weekly check-in meetings with HAO and PMO
 - Developed the Quarterly Assessment Deliverable Expectation Document (DED) with input from the HAO and HAP PMO vendor
 - Reviewed the project procurement and contract documents
 - Attended the HAP PMO meetings
 - Reviewed HAP vendor deliverables and artifacts.

- Planned IV&V activities for the September reporting period:
 - Continue reviewing the project procurement and contract documents
 - Review project artifacts as they become available to IV&V
 - Attend project status meetings and other project meetings as they are established by the PMO vendor
 - Develop IV&V Deliverables
 - Begin preparing for the IV&V Quarterly Assessment, planned to begin in October 2022
 - Review the key Certification activities with HAO to ensure the HAP is prepared to meet CMS' expectations.



Deliverable or Artifact Name	Deliverable Date	Version
UH Contract DHS-21-MQD-0108 execute K.pdf	05/17/2021	N/A
SC#21 executed K.pdf	06/1/2021	N/A
MQD-HAO-2022-D1-TO1_IDAP_Initial-Build.pdf	N/A	N/A
MQD-HAO-2022-D1-TO1 – Amendment #1.docx	03/4/2022	N/A
MQD-HAO-2022-D1-TO1 Questions and Responses due Mar 4_ah.docx	03/4/2022	N/A
MQD-HAO-2022-D1-TO1 Questions and Responses due Mar 4 final.pdf	03/4/2022	N/A
MQD-HAO-2022-D1-TO1_Attachments_B_Amendment #2 FINAL.docx	N/A	N/A
MQD-HAO-2022-D1-TO1 – Amendment #2 FINAL.docx	03/14/2022	N/A
MQD-HAO-2022-D1-TO1_Attachments_A_and_B_Amendment #1.xlsx	N/A	N/A
MQD-HAO-2022-D1-TO1_Attachment C_Cost_Proposal_Worksheet_Amendment #1.xlsx	N/A	N/A
HI-2021-02-10-MMIS-IAPD-Analytics-FFY2021-2022 approval Letter Final.pdf	03/18/2021	N/A
HI-2021-02-10-MMIS-IAPDU-Analytics APD Approval Letter.pdf	10/18/2021	N/A



Deliverable or Artifact Name	Deliverable Date	Version
HI Analytics IAPD_UPDATE_Final_9-21-2021.pdf	09/2021	N/A
HI Analytics IAPD_FINAL.pdf	02/2021	N/A
RFP-MQD-2021-015 Integrated Data Analytic Platform Amendment #1 final & appendix L.pdf	04/21/2021	N/A
RFP-MQD-2021-015 Integrated Data Analytic Platform Amendment #2 final & appendix M.pdf	04/28/2021	N/A
RFP-MQD-2021-015 Integrated Data Analytic Platform QA Doc Due Apr 28 final.pdf	04/28/2021	N/A
RFP-MQD-2021-015 Integrated Data Analytic Platform Amendment #3 final.pdf	05/07/2021	N/A
MQD Analytics Platform RFP-MQD-2021-015 with Appendices.pdf	03/31/2021	N/A
HAP_UH-WBS-Conduct Visioning Sessions	06/01/2022	N/A
HAP_UH – Needs Assessment for WBS	06/02/2022	N/A
HAP_UH - Project Schedule Visioning IDAP Planning	06/06/2022	N/A
Data Governance Program Charter	08/12/2022	N/A
IDAP Planning Schedule	08/15/2022	N/A
UH – PMP Schedule	06/08/2022	N/A



Deliverable or Artifact Name	Deliverable Date	Version
HAP PMO Vendor Meeting Minutes – Multiple	N/A	N/A
HAP_PMO Monthly Status Report - 20220731	07/31/2022	1.0
Data Governance Needs Assessment Methodology	07/19/2022	N/A
Data Governance Orientation Program Methodolog	07/22/2022	N/A
University of Hawai'i TASI/PHIDCVisioning Plan	07/12/2022	1.0
Multiple Data Source Specifications	N/A	N/A
AHCCCS_HealthCurrent_Extracts	10/20/2021	N/A
University of Hawai'i TASI/PHIDC Quality Assurance Plan	07/22/2022	1.1
Data Governance Program Charter	06/07/2022	1.0
DG Project Management Plan	07/01/2022	1.0
UH User Acceptance Testing Plan	7/5/2022	0.1
UH Data Collection & Integration Plan	7/22/2022	1.0
IDAP Visioning Interview List – Prioritized	08/15/2022	N/A



Deliverable or Artifact Name	Deliverable Date	Version
AHCCCS – Project Charter	08/05/2022	N/A
RFP-MQD-2021-016 Data Governance Implementation for Analytics Platform with Appendices.pdf	04/9/2021	N/A
RFP-MQD-2021-016 Data Governance Amendment #1 with Appendix J.pdf	04/27/2021	N/A
RFP-MQD-2021-016 Data Governance QA Doc Due Apr 27 final.pdf	04/27/2021	N/A
Freedman HealthCare Response to RFP-MQD-2021-016 REDACTED OPERATIONAL PROPOSAL.pdf	05/17/2021	N/A
Freedman HealthCare Response to RFP-MQD-2021-016 Cost Proposal Revised 060221.pdf	06/02/2021	N/A
RFP-MQD-2021-017 Med-QUEST Project Management For Health Analytics Program & Appendices A-I.pdf	05/19/2021	N/A
RFP-MQD-2021-017 MQD Project Management Amendment #1.pdf	06/09/2021	N/A
RFP-MQD-2021-017 MQD Project Management Amendment #2.pdf	06/17/2021	N/A
RFP-MQD-2021-017 MQD Project Management Amendment #3.pdf	07/23/2021	N/A
RFP-MQD-2021-017_REDACTED Full Operational Proposal_NTT Data.pdf	07/2/2021	N/A

Additional Inputs



Meetings and/or Sessions Attended/Observed:

- 1. HAO/PMO and IV&V Weekly Touch Base 08/08/2022, 08/15/2022, 08/22/2022, 08/29/2022
- 2. IV&V Team Meeting 08/08/2022, 08/15/2022, 08/22/2022, 08/29/2022
- 3. HAP_PMO UH Touchpoints 08/01/2022, 08/03/2022, 08/08/2022, 08/15/2022
- 4. HAP-HAO All-Hands Call 08/03/2022, 08/10/2022, 08/17/2022, 08/24/2022, 08/31/2022
- 5. HI DHS HAP IV&V Monthly Status Report Review 08/09/2022
- 6. HAP_PMO Post Interview Activity WORKSESSION #1 & 4 08/08/2022
- 7. HAP_PMO Post Interview Activity #2 08/09/2022
- 8. HAP_PMO Post Interview Activity WORKSESSION #5 08/10/2022
- 9. HAP_PMO Post Interview Activity #3 08/11/2022





Appendix A – IV&V Criticality Ratings

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

Appendix B – Findings Log



 The complete Findings Log for the DHS Health Analytics Project will be provided in a separate file in future reports when findings are defined.

Appendix C – Acronyms and Glossary



Acronym	Definition
AHCCCS	Arizona Health Care Cost Containment System
APD	Advance Planning Document
BAA	Business Associate Agreement
CFR	Code of Federal Regulations
CM	Configuration Management
CMMI	Capability Maturity Model Integration
CMS	Center for Medicare and Medicaid Services
CR	Change Request
DDI	Design, Development and Implementation
DED	Deliverable Expectation Document
DCCA	Hawaii Department of Commerce and Consumer Affairs
DHS	Hawaii Department of Human Services
DLIR	Hawaii Department of Labor and Industrial Relations
DOTAX	Hawaii Department of Taxation
EA	Enterprise Architecture
EFT	Electronic Funds Transfer
EPHI	Electronic Protected Health Information
ETS	State of Hawaii Office of Enterprise Technology Services
FAR	Federal Acquisition Regulation
HAR	Hawaii Administrative Rules
HHDC	Hawaii Health Data Center
HHS	U.S. Department of Health and Human Services
HIPAA	Health Information Portability and Accountability Act of 1996



Appendix C – Acronyms and Glossary

Acronym	Definition
HPMMIS	Hawaii Pre-paid Medical Management Information System
HRS	Hawaii Revised Statutes
HST	Hawaii Standard Time
IDAP	Integrated Data And Analytic Platform
IEEE	Institute of Electrical and Electronic Engineers
IRS	Internal Revenue Service
ITIL	Information Technology Infrastructure Library
IV&V	Independent Verification and Validation
KOLEA	Kauhale On-Line Eligibility Assistance
M&O	Maintenance & Operations
MQD	Hawaii Department of Human Services MedQuest Division
NIST	National Institute of Standards and Technology
OE	Operating Environment
OBC	Outcomes Based Certification
OIT	Department of Human Services Office of Information Technology
PHI	Protected Health Information
PIP	Performance/Process Improvement Plan
PMBOK®	Project Management Body of Knowledge
PMI	Project Management Institute
PMO	Project/Program Management Office
PMP	Project Management Plan
QA	Quality Assurance
QM	Quality Management



Appendix C – Acronyms and Glossary

Acronym	Definition
RMP	Requirements Management Plan
RTM	Requirements Traceability Matrix
SEI	Software Engineering Institute
SLA	Service-Level Agreement
SME	Subject Matter Expert
SOW	Statement of Work, Scope of Work
VVP	Software Verification and Validation Plan
XLC	Expedited Life Cycle

Appendix D – Background Information



HI DHS Health Analytics Program

The State of Hawaii through the Department of Human Services (DHS) is building a health analytics program by developing an integrated data and analytics platform to consolidate multiple data sources into a single integrated analytic platform, evolving its capacity for advanced analytics, and maturing the data governance processes of Medicaid data sources that will contribute data to the platform.

Health Analytics IV&V Project

IV&V performs objective assessments of the project beginning with the oversight and evaluation of the design, development, and implementation (DDI) phase of the establishment of the health analytics project. IV&V will support DHS in developing an evaluation framework that will endure beyond the scope of the DDI phase of the project, into future maintenance and operations (M&O) phases. This project shall establish an evaluation strategy and structure that continues to facilitate the growth, evolution, optimal operations and maturity of DHS' health analytics project.

The six key areas of the IV&V scope of work are:

- 1. Planning
- 2. Implementation
- 3. Recommendations
- 4. Evaluation
- 5. Reporting
- 6. Other Requirement

Appendix D – Background Information



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

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

PCG's Eclipse IV&V® Technical Assessment Methodology

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

Logic Model Approach

PCG will leverage the Eclipse Assessment Methodology described above to perform traditional IV&V activities and blend it with a project logic model to focus on project outcomes (answering the question, "Is the integrated data and analytic platform and Data Governance Program helping DHS' Medicaid program achieve its desired outcomes?") with the underlying objective of achieving CMS certification through the OBC process. Using this blended approach, we will evaluate the inputs, activities, outputs, short-term outcomes, intermediate outcomes, and long-term outcomes of the project and will inform project stakeholders of significant risks or issues as the Health Analytics Project is planned, developed and deployed.

Appendix D – Background Information



IV&V Assessment Categories for the Health Analytics Project:

- Project Management
- Quality Management
- Training
- Requirement Management
- · Operating Environment
- Development Environment
- Software Development
- System and Acceptance Testing
- Data Management
- Operations Oversight

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Solutions that Matter