

Hawaii BHA Integrated Case Management System Project

Final IV&V Report for the period of October 1 - 31, 2018



Overview

- Executive Summary
- IV&V Activities
- IV&V Findings and Recommendations
- Appendices
 - A Findings and Recommendations Log
 - B Inputs



Executive Summary

Overall Project Health:



The overall project health remains Yellow, a caution rating, due to unassigned BHA Leads who are dedicated to Implementation Phase activities, unclear service level agreements to be achieved, inconsistent documentation to support requirements validation, the time available during cutover to remediate errors in the data migration files, and outstanding detailed resource planning and analysis to support the OCM Plan. Four findings were closed during this reporting period and four new findings were opened. Thus far, the project remains on schedule for Phase 1 deployment.

Aug 18	Sept 18	Oct 18	Process Areas	IV&V Observations	Overall Health
M	M	M	Project Management	This process area continues to be rated Yellow since the IAPD for Phase 2 is pending approval from CMS; detailed planning continues for deployment activities; BHA resource requirements for deployment tasks have not been confirmed; agreed upon service level agreements are unclear.	Y
Requirements requirements and flagged 9% for further research		IV&V completed a Part 2 requirements traceability evaluation for 25% of the requirements and flagged 9% for further research. After review with DOH and the vendor, IV&V has opened two new findings in this process and has increased the severity to Yellow, or Caution.	Y		
M	L	L	Design and Development	Iteration 5 has completed and the Development Phase has ended. IV&V closed Issue #21 – Architecture Blueprint and Roadmap since the project has approved this deliverable. IV&V has opened finding #38 to address the documentation gap for service level agreements.	G



Executive Summary

Aug 18	Sept 18	Oct 18	Process Areas	IV&V Observations	Overall Health
M	M	L	Testing	The migration to the Government Cloud was successfully completed in October 2018 and, though the UAT Cycle 2 testing duration was shortened due to the migration, the project was able to commence with testing activities and stay on schedule. The project provided pre-UAT training for Cycle 3 testers and is preparing for the broader system, regression, and performance testing activities.	G
M	M	M	Data Management	The project has approved the Data Management Plan and DOH has made significant progress in loading the minimum set of data. However, the extended efforts of the project in this area raise concern regarding the project's ability to resolve data migration issues during the cutover window when there is considerably less time available to the team before go live.	Y
Н	M	М	Organizational Change Management	The OCM Plan released in October provides a high-level strategy to support end user adoption; it outlines the approach that will be taken by the state to guide end users to transition to the new case management system but is still absent the details regarding specific roles and responsibilities, timeline information, metrics for measuring and assessing the transition, communication and escalation procedures, and the processes to be employed. Without a completed OCM Plan, the project is unable to validate that the OCM activities can be aligned with the project's schedule or completed in a timely manner.	Y

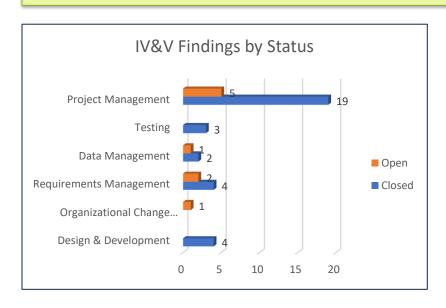


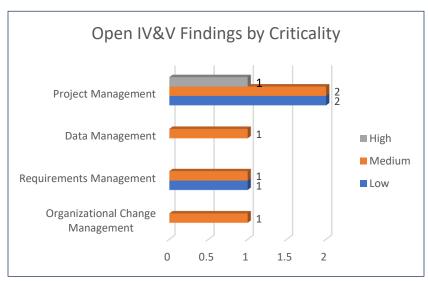
Executive Summary

As of this reporting period, IV&V has 9 open findings: there are 4 Risks (all medium) and 5 Issues (1 high, 1 medium and 3 low).

IV&V closed 3 findings (all medium Issues).

To date, IV&V has identified 41 findings in total: 10 issues, 25 risks, and 6 observations) on the Hawaii BHA Integrated Case Management System Project; and 32 findings have been closed.





See Appendix C for trend data related to IV&V's monthly ratings for findings and overall project health.



Process Areas Reviewed

Throughout this project, IV&V will verify and validate activities performed in the following process areas:

- Project Management
- Requirements Management
- Design and Development
- Testing
- Data Management
- Organizational Change Management



Project Management

#	Key Findings	Criticality Rating
5	Late-game analysis of requirements awaiting details from external sources: [Lead Entity: Vendor] The project has completed Iteration 5 and a code freeze for new development is now in effect. IV&V has closed this issue since any further analysis of requirements will not impact the development timeline for Phase 1.	
19	Access to enhanced federal funding may impact the project budget and/or scope: [Lead Entity: State] The project awaits feedback from CMS regarding the IAPD submitted in September 2018. There is increasing risk that the duration of CMS' review will hinder the project's timeline. Meanwhile, the state continues to work on finalizing the MOA.	M
33	Execution of project activities occurring prior to approval of respective plans: [Lead Entity: State] The project has completed most of the high-level planning to support the Implementation Phase and the Iteration 0 deliverables are in the final approval stages. However, the project continues to collaborate on planning the detailed activities and define the roles and responsibilities which support the project plans while the activities are occurring. For example, 'project champions' are now engaged in UAT and Training activities yet these details are still pending for the OCM Plan.	L
34	Unassigned BHA Lead resources may slow project progress: [Lead Entity: State] Since this risk was opened, three full-time resources have been added to the DOH team (two at CAMHD, one at DDD). The BHA resource requirement to satisfy all activities outlined in the deployment schedule and OCM Plan have not been confirmed and current BHA Leads are multi-tasking across project areas.	M
38	NEW Issue! Service Level Agreements (SLA's) are unclear in the RSM contract: [Lead Entity: State] SLAs were required by RFP Attachment 6, however RFP Attachment 6 was not included in the Final RSM contract. The RTM included in the contract depicts technical service levels, and points to the missing Attachment 6. Agreed-to service levels are necessary for all projects to measure success.	Н



Project Management (cont'd)

#	Key Findings (cont'd)	Criticality Rating
41	NEW Issue! Discrepancies in project documentation have been identified in several project deliverables or work products : [Lead Entity: Vendor] The system documentation regarding custom code elements is scheduled to be delivered in early January; details for SLAs across work products are unclear; varying formats or methods for documenting requirement and user stories in TFS. The lack of sufficient documentation poses risk to DOH's ability to validate that requirement have been correctly met, to communicate and work with end users appropriately, and to support the system once its been implemented into production.	L

Recommendations	Progress
BHA to work closely with DHS to pursue available funding options.	In process
 Focus on completing the detailed planning and documenting roles and responsibilities to support the deployment activities and post-launch 	In process
 Evaluate user stories (requirements) and requests being deferred to Phase 2 and analyze the impact of not having these features developed prior to go live 	In process
BHA to initiate Transition Planning activities to identify DOH's support requirements and develop a plan for securing and training help desk staff prior to go live	In process
 BHA to work within DOH to identify additional resources who can either work on the project or alleviate key project resources from their day-to-day (non-project) responsibilities so they can be fully allocated to the project until post implementation; alternatively, consider hiring temporary staff 	In process
Determine and communicate the service level agreements intended to be in the contract and validate project activities support achieving or measuring them	In process
 Itemize and prioritize the documentation areas that warrant review and revision before closing out Phase 1 and moving forward with Phase 2. Develop an action plan to remediate by the end of January 2019. 	In process



Requirements Management

#	Key Findings	Criticality Rating
36	Many-to-one mapping of user stories to requirements increases the complexity of validation activities: IV&V completed the requirements evaluation (part 2), analyzing 25% of the requirements and their associated user stories, to validate the process and anticipated outputs. The results were reviewed with DOH and RSM, and IV&V has closed this risk in lieu of new findings #39 and #40 below.	
39	NEW Issue! Requirements to user stories' associations are inconsistent within TFS: As a component of IV&V's RTM validation effort for requirements to user stories, approximately 9% of the sample size (and thus, potentially the entire project) are missing required TFS relationships between requirements and all user stories. Incomplete traceability can cause missing requirements in the software.	L
40	NEW Risk! A subset of contractual Requirements may not be fully included in user stories or the developed / configured BHA-ITS software: As component of IV&V's RTM validation effort for requirements to user stories, IV&V identified requirements that are not included in user stories and/or the BHA-ITS software. Until further review of documentation from the vendor, initial RTM efforts indicate that this may affect upward of 9% of the sample reviewed during the RTM effort.	M

Recommendations	
 Address inconsistencies in requirements to user story relationships within TFS in order to ensure that complete requirements traceability is established for the project. 	Not started
 Address inconsistencies in requirements implementation in user stories and the BHA-ITS software and incorporate all requirements determined to be missing in both user stories and the BHA-ITS software solution. 	Not started



Design and Development

#	Key Findings	Criticality Rating
21	Architecture Blueprint deficiencies: The project approved the latest version of the Architecture Blueprint deliverables and accepted the risk associated with the documentation. Therefore, IV&V has closed this issue. See new IV&V Issue #38 in the Project Management process area regarding service level agreements.	



Testing

#	Key Findings	Criticality Rating
35	Inability to move to Government Cloud may impact the execution and quality of SharePoint Integration Testing: The migration to the Government cloud was completed in October 2018. IV&V has closed this issue.	M



Data Management

#	Key Findings	Criticality Rating
31	Errors in the data migration files may impact the overall implementation schedule: DOH has made significant progress in loading the minimum set of data but the project still continues to address data migration anomalies in preparation for deployment. Though there is regular, steady progress, the extended efforts of the project in this area raise concern regarding the project's ability to resolve data migration issues during the cutover window when there is considerably less time available to the team before go live.	M

Recommendations	
 Determine alternative methods for piloting, analyzing, and/or remediating data migration activities and outputs prior to or during the cutover period. 	In process



Organizational Change Management

#	#	Key Findings	Criticality Rating
7	7	Attention to User Adoption (buy-in): The project released a draft OCM Plan in September which provides a high-level strategy to support user adoption. The OCM Plan outlines the approach that will be taken by the state to support end user adoption of the new case management system but lacks the details regarding specific roles and responsibilities, timeline information, metrics for measuring and assessing the transition, communication and escalation procedures, and the processes to be employed to facilitate adoption.	M

Recommendations	Progress
 Complete the detailed activities, definitions of roles/responsibilities definitions, and development of process flows to support the deployment activities. 	In process
 Initiate an OCM forum which meets regularly to focus on the execution and mitigation of OCM-related activities 	Not started



Appendix A

This appendix provides the details of each finding and recommendation identified by IV&V. Project stakeholders are encouraged to review the findings and recommendations log details as needed.

- See Findings and Recommendations Log (provided under separate cover)
- Project Health Rating Definitions
 - The project is under control and the current scope can be delivered within the current schedule.
- G
- The project's risks and issues have been identified, and mitigation activities are effective. The overall impact of risk and issues is minimal.
- The project is proceeding according to plan (< 30 days late).
- The project is under control but also actively addressing resource, schedule or scope challenges that have arisen. There is a clear plan to get back on track.



- The project's risk and/or issues have been identified, and further mitigation is required to facilitate forward progress. The known impact of potential risks and known issues are likely to jeopardize the project.
- Schedule issues are emerging (> 30 days but < 60 days late).
- Project Leadership attention is required to ensure the project is under control.
- The project is not under control as there are serious problems with resources, schedule, or scope. A plan to get back on track is needed.



- The project's risks and issues pose significant challenges and require immediate mitigation and/or escalation. The project's ability to complete critical tasks and/or meet the project's objectives is compromised and is preventing the project from progressing forward.
- Significant schedule issues exist (> 60 days late). Milestone and task completion dates will need to be re-planned.
- Executive management and/or project sponsorship attention is required to bring the project under control.



Appendix A (cont'd.)

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 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: Inputs

This appendix identifies the artifacts and activities that serve as the basis for the IV&V observations.

Meetings attended during the reporting period:

- 1. BHA ITS Weekly Status Meeting (selected)
- 2. Weekly Data Migration Meeting (selected)
- 3. Daily Scrum meetings (selected)
- 4. Weekly Meeting to address targeted questions (selected)
- 5. Weekly BHA IT Schedule Meeting (selected)
- 6. Weekly IV&V Deliverable Reviews meeting
- 7. Weekly Standing IV&V Report Review meeting
- 8. Monthly BHA IV&V PCG-RSM Report Review meeting
- 9. (Continued) Weekly Post Iteration 5 / Deployment planning meeting (9/18/18)
- 10. BHA IT Solution DDD Iteration 4 Demo (9/11/18)
- 11. DOH BHA CAMHD Case Management Solution Demo Iteration 4 (9/12/18)
- 12. DOH BHA IT Solution Project Steering Committee (9/13/18)

Artifacts reviewed during the reporting period:

- 1. Iteration 4 DED
- 2. Iterations 4 and 4 Plan
- 3. Iterations 5 Test Plan
- 4. Iteration 4 TFS Backlog Report
- 5. Iteration 4 Defect Log
- 6. Iteration 4 Unit Test Results
- 7. Iteration 4 Review
- 8. Daily Scrum Notes (selected)
- 9. Data Management Meeting Notes (selected)
- 10. SI Project Schedule (ongoing)
- 11. RSM Weekly Status Reports (ongoing)
- 12. Iteration 0 Data Management Plan v2.1
- 13. Iteration 0 Architecture Blueprint v3.0

Eclipse IV&V® Base Standards and Checklists





Appendix C

Trend Data

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Duocoss Avos	2018											2019					
Process Area		Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
Overall Project Health				G	Υ	G	Υ	Υ	Υ	Υ							
Project Management	Υ	Υ	G	G	Υ	G	Υ	Υ	Υ	Υ							
Requirements Management	Υ	G	G	G	Υ	G	G	G	G	Υ							
Design and Development	Υ	Υ	G	G	Υ	Υ	Υ	Υ	G	G							
Testing					G	G	Υ	Υ	Υ	G							
Data Management					G	G	Υ	Υ	Υ	Υ							
Organization Change Management		Υ	Υ	Υ	Υ	Υ	Υ	R	Υ	Υ							
Total Open Findings	18	17	19	17	17	15	17	12	9	9							
Issue - high							1			1							
Issue - medium				1	1	2	4	5	4	1							
Issue - low								1	1	3							
Risk - high								1									
Risk - medium		4	5	9	3	1	3	1	3	4							
Risk - low		10	10	3	10	11	9	4	1								
Observations - high																	
Observations - medium		1	1	2	1	1											
Observations - low		2	3	2	2												





le	dentified	Summary	Observation	Significance	Recommendation	Updates	Process Area	Туре	Priority	Status
D	ate	,							,	
7 0	9/01/17	Attention to User	SI seems to lack a	Failure to implement an effective user adoption strategy	Recognizing that the SI has committed to a	10/31/18: The project released a draft OCM Plan in September which provides a high-level strategy	Organizational	Risk	Medium	Open
		Adoption (buy-	comprehensive strategy to	could lead to resistance during system rollout, refusal to	training (sandbox) environment for SME	to support user adoption. The OCM Plan outlines the approach that will be taken by the state to	Change			
		in)	support user adoption.	participate in the development/rollout process, resistance	validations of functionality and to provide	support end user adoption of the new case management system but lacks the details regarding	Management			
				to use the system, and negative public perceptions	the opportunity for user involvement, IV&V	specific roles and responsibilities, timeline information, metrics for measuring and assessing the				
				(including the media). In the end, this could lead to a	would suggest that other measures should	transition, communication and escalation procedures, and the processes to be employed to				
				reduction of ongoing project funding, a weakened SI	be taken as well. For example, although the	facilitate adoption. IV&V has increased the priority of this finding to High since these details are				
				reputation, as well as long-term public scrutiny and	State has initiated the practice of tracking	not yet fully defined whilst the project is heavily engaged in executing Implementation Phase				
				criticism.	pain points, the process for how the SI will	activities and already executing OCM-related tasks (e.g., Train-the-Trainer).				
					utilize this list has not been clearly identified					
					and monitored. Tracking pain points can be	9/30/18: The team conducted targeted planning session throughout the reporting period and				
					an effective OCM strategy for user adoption	focused on planning the activities required for the Implementation Phase. As a result, many OCM-				
					and buy-in as it provides visibility to the	related decisions have been made related to the approaches, scope, and timing for training,				
					users of problems the system is actually	transition activities, and communications for both internal and external (Provider) stakeholder				
					solving and provides traceability of pain	groups. Completion of the OCM plan is pending updates which reflect recent planning decision.				
					points to system features during sprint	Many OCM best practices, such as conducting system overview sessions prior to UAT as well as				
					demos. IV&V also recommends BHA	identifying and including System Champions (or Super Users) in the UAT activities, have been				
					request the SI adopt a general user adoption	incorporated into the approach. Due to the planning progress and forward thinking mitigiation to				
					strategy going forward. IVV will continue to	ensure user adoption, IV&V is lowering the severity of this risk.				
					monitor to validate that the BHA's					
					expectations are met.	8/31/18: The OCM Plan is not yet been finalized and early planning for the Implementation Phase				
						indicates a large volume of pending decisions surrounding training and cutover, both of which		1.		
19 0		-	Ability to access enhanced	Delays in securing enhanced funding has delayed system	Recommend BHA continue to work closely	10/31/2018: The project awaits feedback from CMS regarding the IAPD. Meanwhile, revisions to	Project	Issue	Medium	Open
			federal funding as initially	development. Inability to claim federal funds could	with DHS to pursue available funding	the MOA related to cost allocations are underway in anticipation of CMS request.	Management			
			planned is at risk due to	negatively impact the project budget, scope and schedule.	options. IV&V will continue to monitor					
			State Medicaid Agency		progress.	9/13/18: BHA and PCG met with MQD on 8/30/18, the draft was revised and resubmitted to MQD				
			delays in completing its			on 9/7/18 without the MOA attached. The risk associated with the federal funding will transition				
			MITA State Self-Assessment			from IAPD development to the length of time it will take to get CMS approval, once the IAPD is				
			(SS-A) prior to the submittal			submitted. MedQuest reported that MOA is in progress at the monthly DOH BHA Steering				
			of DOH's IAPD.			Committee meeting.				
						2/2/40 2011 111 112 112 113 114 115				
31 #		Formula the detail	Files or data unable to be	If the determination files and details and formatted	Data and in a planta still a same at	8/8/18: DOH submitted the IAPD to DHS for internal and has received minimal comments by the	D-t-	Risk	NA - di	0
31 #				If the data migration files or data is not formatted	Determine alternative methods for piloting,		Data	RISK	Medium	Open
		ŭ	processed as part of the	correctly, they will not convert. Errors in converted data	analyzing, and/or remediating data		Management			
			planned data migration may	may delay the implementation if additional time is	migration activities and outputs prior to or	regular, steady progress, the extended efforts of the project in this area raise concern regarding the				
			jeopardize the project's	required to resolve them.	during the cutover period.	project's ability to resolve data migration issues during the cutover window when there is				
			schedule.			considerably less time available to the team before go live.				
		schedule				0/20/40. The anxiety and investment address in the decision of		1		
						9/30/18: The project continues to address issues associated with the data migration files and has		1		
						identified new complexity, and thus additional risk, with future data migration iterations scheduled				
						during the cutover period. The time available to remediate data "catch up" migration issues may				
						not be sufficient.				

Identified	Summary	Observation	Significance	Recommendation	Updates	Process Area	Туре	Priority	Status
Date									
3 ########	Executing project	Project resources have	When project resources execute work before planning	Focus on completing the Planning activities	10/31/2018: The project is executing OCM activities in the absence of detailed planning. For	Project	Issue	Low	Open
	activities before	worked on tasks in hopes of	activities have completed and documented approaches,	and obtain agreement on the plan,	example, 'project champions' are now engaged in UAT and Training activities but their full roles	Management			
	planning is	making progress even	plans, and procedures are approved, they run the risk of	approach, and/or procedures for these	and responsibilities are not yet fully defined.				
	complete and	though the plan and/or	not completing the work appropriately. Then, either later	upcoming phases (at a minimum): User					
	approved [Lead	approach for doing the work	in the project's life cycle the work must be redone or the	Acceptance Testing, Data Migration,	9/28/18: The planning for the Implementation Phase activities nears completion and a detailed				
	Entity: Vendor]	has not yet been approved.	project must determine if the work is 'good enough' to	Training, Cutover and Implementation,	deployment schedule has been developed. Though there are project plans that are still unders				
		Until or after project plans	proceed. The former scenario causes strain on resources	OCM, and Post-Implementation.	development, IV&V has reduced the rating of this issue to Low since there are few remaining				
		are approved, completed	and the project's schedule and the latter scenario results in	BHA to initiate Transition Planning activities	planning related items that need to be addressed.				
		project tasks are subject to	reduced quality in the project's outputs. An example is the	to identify DOH's support requirements and					
		rework.	data migration files. A documented plan may have	develop a plan for securing and training help	8/31/18: IV&V observed continued efforts to complete planning activities whilst executing project				
			assuaged the formatting errors now facing the project.	desk staff prior to go live	activities. For example during the reporting period, DOH requested changes (swaps) to user stories				
			Other examples include: requirements management and		already planned for Iteration 4 in order to prioritize and ensure delivery of functions in Phase 1				
			defining acceptance criteria.		identified by DOH stakeholders in the latest demonstration. Changing the scope of Iteration 4 while				
					it was in progress increased the risk of potential development rework. Also, new data migration				
					files were identified during the period and have been added to the project's scope though the Data				
#######	Unassigned BHA	The project is progressing	Training, Testing and Cutover project activities require a	Perform analysis on the state-owned tasks	10/31/2018: Since this risk was initially opened, CAMHD has assigned two additional full-time	Project	Risk	Medium	Open
	Lead resources	into the Implementation	specialized focus during the Implementation Phase to	for Training, Testing, and Cutover project	resources and continues to recruite two more - and DDD has added one full-time resource. The	Management			
	may slow project	Phase which includes	ensure these activities are completed appropriately and	activities in order to define a role and	BHA resource requirement to satisfy all activities outlined in the deployment schedule and OCM				
	progress [Lead	Training, Testing, and	are compliant with requirements and high quality	distinct set of responsibilities for Lead SMEs	Plan have not yet been confirmed and current BHA Leads are multi-tasking to accomplish non-				
	Entity: State]	Cutover and typically	standards. When existing project resources take on these	for each.	strategic activites (e.g., log users on/off the training environment).				
		requires heavy state staff	late-coming project responsibilities, on top of their existing	BHA to identify and assign LEAD SME					
		participation. Currently, the	workload, there is increased risk that insufficient attention	resources to champion these respective	9/13/18: BHA has identified new resources to perform training and testing activities during the				
		BHA team does not have	will be given to drive these activities to completion.	project activities during the Implementation	Implementation Phase. However, the BHA resource requirement to satisfy all activities outlined in				
		state Leads assigned to	Further, there is additional benefit to assigned SMEs with	Phase.	the newly developed deployment schedule has not yet been confirmed (e.g., data migration catch				
		manage and guide the	expertise in these areas to perform Lead responsibilities as		up activities).				
		successful and timely	their insight and experience can help mitigate risk and						
		completion state-owned	foster the implementation of best practices.		8/31/18: The Implementation Phase, which includes Testing, OCM, and Cutover activities, typically				
		project tasks in these areas.			requires heavy state staff participation. Currently, the BHA team does not have dedicated state				
					Leads assigned to manage and guide the successful and timely completion of state-owned project				
					tasks in these areas. IV&V has increased the rating to Medium since it has been observed that				
					current assigned Leads are significantly over-allocated and challenged with juggling their current				