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January 20, 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 of Hawaii Department of Health Hawaii BHA Integrated Case Management System Project.

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

Sincerely,

DOUGLAS MURDOCK Chief Information Officer State of Hawai'i

Attachment (2)



Hawaii BHA Integrated Case Management System Project – Phase 3

Final IV&V Report for the period of

December 1 – December 31, 2020

Final submitted: January 11, 2021



Solutions that Matter

Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





Executive Summary

The Project Team deployed Release 3.11 into production in December. As with previous releases, a subsequent mid-sprint deployment (MSD) is necessary to address/fix a few high priority production defects introduced as part of Release 3.11. This MSD is planned for January.

The RSM Team continued to provide essential support during December, alleviating some of the bandwidth concerns expressed by DOH to meet crucial project needs. BHA has received approval to pursue a State technical resource to help support on-going development work. IV&V continues to recommend that BHA seek additional state technical resources.

The Project continues to acknowledge the on-going quality issues/concerns and has taken steps to improve the quality assurance efforts for each release going forward.

The development of the IDM and Semantics Layer workstreams continue to progress and most of the technical hurdles causing schedule slippages have been resolved.

Oct	Nov	Dec	Category	IV&V Observations
Y Y Sprint recommend BHA seek additional skilled technical MS Dynamics resources to permanently fill their technical support needs to assist with the increased volum		permanently fill their technical support needs to assist with the increased volume of work. The rating for this category remains a Yellow (medium criticality) for the December		
G	G	G	User Story (US) Validation Validation (low criticality) for the December reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.	
Y	YYTest Practice ValidationThe project deployed R3.11 to production in December. A mid-sprint deployment is planned for January to address R3.11 high-priority defects as well as other defects an leftover R3.11 user stories. DOH and RSM agreed to defer R3.11 work items to R3.12 due to insufficient testing time. IV&V continues to recommend the development of automated regression test scripts. The criticality rating for this category remains a Yell (medium) for the December reporting period. IV&V will continue to monitor this category			

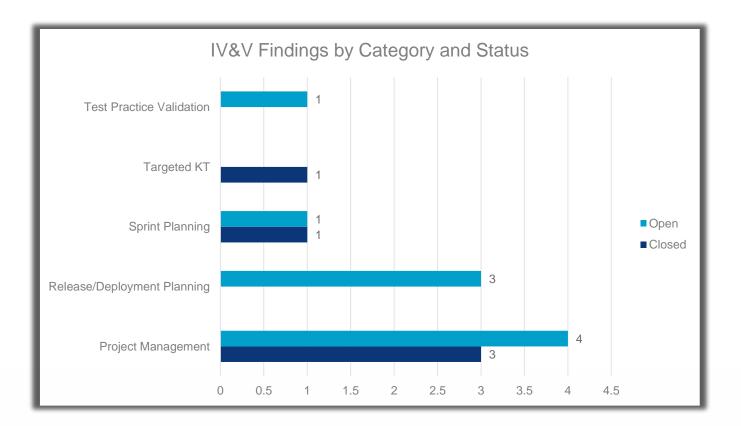
Executive Summary

Oct	Nov	Dec	Category	IV&V Observations
Y	Y	Y	Release / Deployment Planning	The criticality rating for this category remains Yellow (medium) for the December reporting period. As with previous releases, deployment issues impacted R3.11 resulting in a subsequent mid-sprint deployment. IV&V has provided additional recommendations to aid in improving future release deployments. IV&V will continue to monitor this category in January.
G	G	G	OJT and KT Sessions	The criticality rating for the OJT and KT Sessions category remains Green (low) for the December reporting period with no active findings.
G	G	G	Targeted KT	The Targeted KT criticality rating remains Green (low) for the December reporting period. The Project Team has commenced planning efforts for the KT sessions on Semantics Reporting and IDM tools. IV&V will continue to monitor this need moving forward.
G	G	 Project Performance Metrics Although the project did not meet its planned velocity expectation for the R3.11 Decement deployment, the velocity for R3.10 far exceeded its original estimate. As a result, IV&V will keep the criticality rating for this category a Green (low) and will continue to monitor this category moving forward. 		
G	G	G	Organizational Maturity Assessment	The criticality rating for the Organization Maturity Assessment (OMA) will remain Green (Iow). The next OMA will be planned for March 2021.
Y	Y	Y	Project Management	The criticality rating for the Project Management category remains Yellow (medium) in December. Quality and BHA Leadership bandwidth continues to remain a concern for IV&V, which we will be monitoring moving forward. The Project Team continues to fare well despite the COVID-19 pandemic.
				Both the procurement of the interactive training toolset to address DDD's OCM/Training priority resource needs and the BHA IAPDU were approved in December.



Executive Summary

As of the December 2020 reporting period, there are a total of nine open findings – four Medium Issues, two Medium Risks, and three Low Risks spread across the Sprint Planning, Release / Deployment Planning, Test Practice Validation, Targeted Knowledge Transfer, and Project Management assessment areas.





IV&V Findings & Recommendations

IV&V Findings & Recommendations Assessment Categories

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

- Sprint Planning
- User Story Validation
- Test Practice Validation
- Release / Deployment Planning
- On-the-Job Training (OJT) and Knowledge Transfer (KT) Sessions
- Targeted Knowledge Transfer (KT)
- Project Performance Metrics
- Organizational Maturity Assessment
- Project Management

IV&V Findings & Recommendations Sprint Planning

#	Key Findings	Criticality Rating	
8	Medium Risk - The BHA Technical Team bandwidth may not be adequate to meet the needs of the project, which could compromise project productivity. BHA stated that although most vacant positions cannot be filled at this time, they have approval to fill a vacant IT Technician position. IV&V will continue to monitor this finding.	M	
Recor	nmendations	Status	
	Project should investigate mechanisms of increasing the bandwidth of the BHA Technical Team, either adding resources through new hires, or vendor contracts.	In progress	
	The Project should assess, where possible, if there are responsibilities of the BHA Technical Team that can be reassigned to other project staff.		
	Project should evaluate where process inefficiencies can be addressed and streamlined to possibly free the BHA Technical Team's availability.	In progress	
	Project should consider the formation of a first level M&O resource team to triage/address production ects in a timely manner, without disrupting new development work.	In progress	
	Project should consider procurement of an online training toolset to support OCM and technical efforts to et the need for in-person training.	Complete	



IV&V Findings & Recommendations Test Practice Validation

#	Key Findings	Criticality Rating
2	Medium Issue – As a result of regression testing not being consistently performed, production releases are breaking and/or deprecating existing functionality in the production environment. Release 3.11 was promoted to production on 12/13/2020. The quality assurance and regression testing was rushed due to an incomplete deployment to test, which resulted in insufficient time to adequately test all functionality in the release from a business perspective prior to the planned deployment date. The project employed a risk-averse strategy that prioritized quality over schedule resulting in a much smaller release than originally planned. This created the need for another unplanned Mid Sprint Deployment in January to promote high priority functionality to production in advance of Release 3.12. Activities to automate regression testing continue to be delayed due to the lack of available staff to complete the initial setup. Since the project burn rate is expected to decrease after Release 3.12, DOH plans to concentrate on developing the setup efforts for automated regression test scripts to reduce the time needed for regression testing.	M

Recommendations	Status
Updating the regression test scripts to ensure consistency with system configuration.	Completed
Modifying release schedules to allow for regression testing timeframes.	Completed
 Planning releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution. 	Completed



IV&V Findings & Recommendations Test Practice Validation (cont'd)

Recommendations	Status
 Performing regression testing after every release, or possibly every other release, or potentially tying regression tests to full solution upgrade releases. In addition, consider alternating the DDD and CAMHD scripts every other release. 	In Progress
Modifying regression test scripts to start AFTER case creation, limiting the time it takes to execute.	Completed
Modifying the deployment scripts based on information gained from previous release deployments.	Completed
 Pursuing additional formal training in AzureDevOps for test automation at the earliest possible juncture and commence efforts to automate at least the 2 primary regression test scripts. 	Open
 Consulting with RSM to determine how the 'interim testing processes' can be improved until such time that automated testing is available for repeatable and complete industry standard regression testing. 	Completed
 Implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed. 	Completed



IV&V Findings & Recommendations Release / Deployment Planning

#	Key Findings	Criticality Rating
5	Closed Medium Issue - Due to not following a detailed deployment script, the project may continue to experience defects related to deployment activities. IV&V has closed this issue as the related recommendations below has been completed. A subsequent medium issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues.	
Re	commendations	Status
	IVV recommends documenting deployment scripts for both the patch method and the full solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel are unavailable.	Completed
	Standardize the content of all developer deployment task notes, with a goal of eliminating any potential ambiguity to the Deployment Team, resulting in a cleaner and more repeatable set of deployment processes and instructions.	Completed



IV&V Findings & Recommendations Release / Deployment Planning

#	Key Findings	Criticality Rating
19	<i>New Medium Issue</i> - Due to on-going deployment processes and technical execution issues, the project may continue to encounter defects and challenges in meeting projected timelines for production and non-production deployments. Release 3.11 was promoted to production on 12/13/2020. The promotion to the test environment for final testing and execution of regression test scripts prior to production deployment was missing software components. As a result, several user stories and defects were not tested as planned and were excluded from the production deployment. These items were subsequently re-prioritized to be resolved in a Mid Sprint Deployment in mid January or R3.12 in February.	M

Recommendations	Status
 Develop a plan to institutionalize the execution of "Smoke Testing" for promotions to non-production and production environments. This will help to ensure that all components needed to test have been properly deployed prior to the actual execution of test activities. 	New
 Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure complete ownership of these processes. This should assist with consistency in approach and execution going forward. 	New
As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	In Progress
 Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed. 	Completed



IV&V Findings & Recommendations Release / Deployment Planning (cont'd)

Recommendations	Status
 Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with consistency of the configurations across environments, ensuring that the test environment is capable of testing ALL functions of any given release without the need for using multiple test environments. 	In Progress
 Request the assistance of the RSM Solution Architect in review of deployment scripts as a double check for accuracy and completeness prior to commencing deployment activities. 	In Progress
 Ensure an operational and fully functional test environment is available to effectively conduct end-to-end regression testing prior to deploying a release to production. 	Completed
 The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls. 	In Progress
 IV&V recommends performing a Root Cause Analysis in collaboration with RSM for the continued concerns surrounding environment differences. 	In Progress



IV&V Findings & Recommendations Release / Deployment Planning (cont'd)

#	Key Findings	Criticality Rating
18	Medium Issue – Due to consistent technical issues requiring escalation to Microsoft, the IDM and Semantic Layer project efforts are being delayed. While most of the issues requiring escalation to Microsoft were adequately addressed during December, the Azure Data Factory (ADF) 'first 10 rows missing data' issue remain open. BHA has created a work around for this issue while awaiting a permanent and reliable resolution from Microsoft. Additionally, the Project awaits the "Datalake" function fix from Microsoft to address a priority IDM issue. The fix was intended to be delivered the end of 2020 but that did not pan out. No new target date has been provided by Microsoft. IV&V will continue to monitor this issue in January.	M

Recommendations		
 IV&V recommends the project to continue to monitor the status of outstanding Microsoft tickets and to escalate the priority of these tickets as deemed necessary. 	In Progress	



IV&V Findings & Recommendations Targeted KT

#	Key Findings	Criticality Rating
16	Preliminary Concern – Use of Semantics and IDM for development and ongoing maintenance of the system requires BHA to take a proactive approach to learn and support these tools. IV&V is aware that an overview of the Semantics Layer KT session was held on 12/16/20. The planning effort will result in additional Semantic Layer and IDM KT sessions in the coming months. IV&V will continue to monitor this finding.	N/A



#	Key Findings	Criticality Rating
10	Medium Risk -The COVID-19 pandemic and related "stay at home" order could hinder project activities and negatively impact the project schedule and budget. The project continued to maintain its ability to operate with staff working remotely. As previously reported, key project staff continue to have increases in participation of non-project activities to support the COVID-19 crisis. This includes the expedited development of a high priority D365 solution for Disease Tracking as well as the planning work for the expansion of the D365 environment to additional DOH business units. Aside from the Disease Tracking solution, IV&V notes that the CAMHD leadership time dedicated to the COVID-19 response declined during December. The HI Governor announced in late December that furloughs will be delayed due to the potential of the COVID Relief bill funding from the federal government. IV&V continues to note that there may also be future potential budget actions by the Governor which may affect the project due to projected State budget shortfalls.	M

Recommendations	Status
 IV&V recommends BHA to ramp up efforts to setup, train, and assist stakeholders on remote work devices and tools and make every effort to help them to become highly functional with remote access technology (e.g. MS Teams/Skype). 	Completed
• IV&V recommends the project and DOH create a detailed, documented risk mitigation strategy and plan that is reviewed regularly and revised to address the current state of the COVID-19 threat and related impacts over the next 6 to 12 months.	In Progress
 IV&V recommends updates to the OCM Plan to include any new activities or updates to planned activities to aid the organization through this COVID-19 situation in the short and long term. 	Open



#	Key Findings	Criticality Rating
15	Medium Issue – Due to multiple quality concerns, the project may continue to face impactful system defects. BHA recognizes the impact of the quality concerns and has initiated weekly meetings with the development and test teams in order to increase the quality assurance effort of each release going forward. This effort has expanded to more of a team approach to managing quality for releases and includes efforts to further develop the quality components of all user stories and requests to ensure the test goals are well known by all prior to development being initiated. IV&V will continue to monitor this medium priority project issue.	M

Recommendations	
• Perform revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.	In Progress
 Perform typical project testing including System Integration, User Acceptance, Performance, and Regression Testing. 	In Progress
Assign dedicated resources to provide oversight of CAMHD Fiscal Processes.	In Progress
 BHA and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase level of detail and quality. 	Completed
Monitor implemented improvements for effectiveness.	In Progress



#	Key Findings	Criticality Rating
13	Low Risk – PII/PHI data in non-production environments. BHA is still in the process of establishing a plan for managing PHI/PII data and plans to complete this effort in February after Release 3.12. IV&V will continue to monitor this finding.	C
Recommendations		
	&V recommends if production data is necessary in any non-production environment that DOH establishes a an for effectively managing the security of the PII/PHI data, including the potential masking of data.	In Progress
• IV&V recommends that DOH mitigates this finding by removing and/or masking any PHI/PII data in its non-		In Progress

 IV&V recommends that DOH mitigates this finding by removing and/or masking any PHI/PII data in its nonproduction environments.

#	Key Findings	Criticality Rating
12	Low Risk – DDD Project staffing shortages may have a continued negative effect on user adoption, training, and overall OCM activities. The contract to procure the interactive training toolset for onboarding new staff members and providers and to provide refresher training to existing staff members was successfully executed. Planning for the design of the necessary training will commence in January. Additionally, DDD has secured a contract for temporary Report Writing services. IV&V will continue to monitor.	L

Recommendations	
 IV&V recommends that BHA does as much as possible within its sphere of influence to increase user adoption and training. This includes procurement of the online training toolsets to offset the need for in-person training, and adding staff as needed to support OCM and technical efforts. 	In Progress
 IV&V recommends DOH perform a detailed investigation of the specific variations as to how the system is currently being used by the user community. Consequently, users would be provided with constructive feedback on how the system should be utilized where gaps exist. This will likely lead to additional refresher training to close identified system knowledge gaps. 	In Progress



#	Key Findings	Criticality Rating
14	Low Risk – Project unable to access activity logs. The planning effort for identifying the entities that will require activation of the new activity logs was completed during December. The implementation effort has been prioritized for inclusion in Release 3.12. IV&V will continue to monitor this finding until implemented.	0

Recommendations		Status
•	IV&V recommends that DHS continues to collaborate with Microsoft until the activity logging feature is available in all BHA non-production environments.	In Progress

#	Key Findings	Criticality Rating
17	Preliminary Concern – The bandwidth of CAMHD Leadership is being hampered by planning tasks and activities for assessing project expansion to other divisions. The planning effort for the expansion of the case management solution to the other DOH divisions continued during December. CAMHD Leadership continues to dedicate approximately 25% of available time to this planning effort and it is anticipated that the level of effort will continue to increase in the coming months. On the positive side, CAMHD leadership time dedicated to the COVID response decreased during December. IV&V will continue to monitor this concern.	N/A



IV&V Findings & Recommendations Project Performance Metrics

Metric	Description	IV&V Observations	IV&V Updates
Velocity	 Review and validate the velocity data as reported by the project Verify the project is on pace to hit the total target number of US/USP for Phase 3 	 December - Available velocity was estimated at 234 User Story Points (USPs) for Release 3.11. A total of 142 USPs were completed (approximately 61%). Overall, the cumulative Phase 3 targeted USPs through release 3.11 was planned for 738. The cumulative completed USPs total is currently 1096. 	IV&V notes that there were a number of nearly-completed functionality items developed during R3.11 that did not get tested prior to the deployment Release date. It is anticipated that most of these will be included in either the Mid Sprint Deployment in January or Release 3.12 in February. This should help to make up the unanticipated USPs drop for the R3.11 production deployment.



IV&V Findings & Recommendations Project Performance Metrics (cont'd.)

Metric	Description	IV&V Observations	IV&V Updates
US Point Estimates vs Actuals	 Verify the project is tracking US Point estimates and actual data Determine the delta between estimates and actuals Based on the delta (if any) investigate the potential root cause for the delta 	December - The Project Scrum Master closely tracks the USP daily. Determining the delta between USP estimates and actuals is a work in progress.	December – DDD and CAMHD have standardized a format for resources to track hours. The recording of resource hours is not completed by all team members making it difficult to calculate the variance between actual vs. projected hours.



IV&V Findings & Recommendations Project Performance Metrics (cont'd.)

Metric	Description	IV&V Observations	IV&V Updates
Defect Metrics	 Understand and track the following: Defects by category (bug fixes) US Points assigned to defects in a release vs US Points assigned to planned US in a release 	 December – Release 3.11 was comprised of 142 User Story Points that were released to production. 86% of the total USPs were associated with planned user stories and requests 14% of the total USPs were associated with defects from the backlog 	N/A



IV&V Findings & Recommendations Organizational Maturity Assessment

Measure	IV&V Observations
The Organizational Maturity A	ssessment (OMA) is updated on a bi-monthly basis. IV&V will plan the next OMA in March 2021.



Appendix A: IV&V Rating Scales

Appendix A IV&V Rating Scales

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)
- IV&V Assessment Category Rating Definitions

The assessment category is under control and the current scope can be delivered within the current schedule.

The assessment category's risks and issues have been identified, and mitigation activities are effective. The overall impact of risk and issues is minimal.

The assessment category is proceeding according to plan (< 30 days late).

The assessment category 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 assessment category'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 assessment category.

Schedule issues are emerging (> 30 days but < 60 days late).

Project Leadership attention is required to ensure the assessment category is under control.

The assessment category is not under control as there are serious problems with resources, schedule, or scope. A plan to get back on track is needed.

The assessment category'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 assessment category under control.



Appendix A Finding Criticality Ratings

Criticality Rating	Definition
8	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.
М	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.
C	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

Appendix B Inputs

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

Meetings attended during the December 2020 reporting period:

- 1. Daily Scrum Meetings (selected)
- 2. Twice Weekly RSM Issues Meeting
- 3. Weekly BHA-ITS Project Status Meeting
- 4. Bi-Weekly Check-in: CAMHD
- 5. Bi-Weekly Check-in: DDD
- 6. BHA IAPDU Planning Meeting
- 7. IV&V Draft IV&V Status Review Meeting with DOH
- IV&V Draft IV&V Status Review Meeting with RSM and DOH
- 9. GLRA #4 Meeting
- 10. R3.11 Deployment Planning Meeting

Eclipse IV&V[®] Base Standards and Checklists

Artifacts reviewed during the December 2020 reporting period:

- 1. Daily Scrum Notes (selected)
- 2. Twice Weekly Issues Meeting Notes (selected)



Appendix C: Project Trends

Appendix C Project Trends

Trend:	Overal	Projec	t Health	ı						
Process Area					20	20	_			
PIOLESS ATEd	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
User Story Validation										
Test Practice Validation										
Sprint Planning										
Release / Deployment Planning										
OJT and KT Sessions										
Targeted KT										
Project Performance Metrics										
Organizational Maturity Metrics										
General Project Management										
			r		r				r	1
Total Open Findings	6	6	6	6	6	7	7	10	11	11
Issue - high	0	0	0	0	0	0	0	0	0	0
Issue - medium	1	1	0	0	0	1	2	2	4	4
Issue - low	0	0	1	1	1	0	0	0	0	0
Risk - high	1	1	1	0	1	0	0	0	0	0
Risk - medium	1	0	0	2	2	3	3	3	2	2
Risk - low	3	4	3	2	1	0	0	0	3	3
Preliminary Concern	0	0	1	1	1	3	3	5	2	2





Solutions that Matter

ID No	Identified Dat	Title	Observation	Significance	Recommendation	Updates	Process Area	Finding Type	Priority	Status	Closure Reason	Risk Owner
1.000	12/31/2019	Detailed investigation into the project's sprint	IV&V is currently investigating the	While having a high level	As much as possible, the project should	01/31/2020 - IV&V is closing this concern, and	Sprint Planning	Concern	N/A	Closed	Due to multiple	V Ramesh
		planning processes and adoption of generally	following topics as they relate to	roadmap is good, the	identify what feature enhancements will be	will be tracking items related to Definition of					new items	
		accepted agile best practices.	Sprint Planning and the project's	project should be able to	targeted for each Release and should clearly	Done, roadmap, resourcing, and backlog					being tracked	
			overall approach to agile software	identify what feature	map out the roadmap out through the last	grooming in new, separate findings.					at a more	
			development:	enhancements will be	Phase 3 release in September 2020.						granular level,	
			- IV&V acknowledges that the project	targeted for each planned	Additionally, the project should clearly define						this item has	
			is now planning three sprints outs,	release. This roadmap will	"Done" to ensure the project team is working						been closed.	
			however, it appears that only a "high-	help the project manage	towards the same goal and increase							
			level" sprint planning roadmap has	scope and productivity.	opportunities for success. Having a clear							
			been produced, and it is unclear	Relatedly, the "definition	"definition of done" will help provide the							
			exactly how the project is targeting	done" is an important	project with guidance on how to stay within							
			features for each release through the	artifact to ensure that the								
			end of Mod 4.	project is successful.	scope.							
			- IV&V is not aware of how the project									
			is currently defining "done" for Mod 3									
			and Mod 4	requests/enhancements								
				and manage scope.								
			Additionally, in the January 2020	and manage scope.								
			reporting period, IV&V will seek additional information and visibility									
			into the project's processes specific to									
			prioritizing requests and how user									
			stories in TFS are tagged to features,									
			as well as the realignment of project									
			development and configuration									
			resources to complete the scope of									
			Release 3.5.									
2.000	12/31/2019	As a result of regression testing not being	R3.3 introduced a defect that	Thorough vetting and	To address regression testing, the Project	12/31/2020 - Release 3.11 was promoted to	Test Practice Validation	Issue	Medium	Open		D Macdonald
		consistently performed, production releases	deprecated features in production	validation of regression	should continue to pursue and/or consider:	production on 12/13/2020. The quality						
		are both breaking and deprecating existing	specific to Integrated Support and Life	test cases is necessary to	1. Updating the regression test scripts to	assurance and regression testing was rushed						
		functionality in the production environment.	Trajectory functionality. DDD has	prevent both defects and	ensure consistency with system configuration	due to an incomplete deployment to test, which						
			informed IV&V that there are other	the deprecation of	- Completed	resulted in insufficient time to adequately test						
			examples of functionality being	production functionality	2. Modifying release schedules to allow for	all functionality in the release from a business						
			deprecated after a release, some of	when a release is pushed	regression testing timeframes - Completed	perspective prior to the planned deployment						
			which are still being investigated. As	live. When defects occur in	3. Grouping releases by functionality type to	date. The project employed a risk-averse						
			of this report, IV&V has not evaluated	production, the project	avoid unnecessary repetitive work being	strategy that prioritized quality over schedule						
			the project's root cause analysis (RCA)	should follow a defined	performed in any given section of the	resulting in a much smaller release than						
			process used to determine why such	and repeatable process for	solution - Completed	originally planned. This created the need for						
			functionality was deprecated but will	determining the root	4. Performing regression testing after every	another unplanned Mid Sprint Deployment in						
			discuss further with BHA in January	cause of the problem.	release, or possibly every other release, or	January to promote high priority functionality to						
			2020.		potentially tying regression tests to full	production in advance of Release 3.12.						
					solution upgrade releases. In addition,	Activities to automate regression testing						
					consider alternating the DDD and CAMHD	continue to be delayed due to the lack of						
					scripts every other release - In Progress	available staff to complete the initial setup.						
					5. Modifying regression test scripts to start	Since the project burn rate is expected to						
					AFTER case creation, limiting the time it takes							
					to execute - Completed	concentrate on developing the setup efforts for						
					6. Modifying the deployment scripts based	automated regression test scripts to reduce the						
					on information gained from previous release	time needed for regression testing.						
					deployments - Completed	11/30/2020 - Release 3.10 was promoted to						
					7. Pursuing additional formal training in	production on 11/11/2020. Approximately nine						
					AzureDevOps for test automation at the	(9) new defects were identified after the						
					earliest possible juncture and commence	deployment. Root causes are suspected to be a						
					efforts to automate at least the 2 primary	combination of insufficient testing from a						
			1	1	perior is to automate at least the 2 printary	reomoniation of insumerent testing (1011 d	1	1	1	1	1 1	
					regression test scripts - Open	business perspective coupled with deployment						

3.000	12/21/2010		IV(8) (learned in December 2010 that	Onen service tools and	1)/(?)/ recommende DITA work to establish a		Terreted //T	Risk	Low	Classed	RSM has	D Macdonald
3.000	12/31/2019	Usage of open source JavaScript framework for development and ongoing maintenance of	IV&V learned in December 2019 that the Calculator 3.0 functionality is built	Open source tools and frameworks offer	IV&V recommends BHA work to establish a reliable and repeatable process for keeping	08/31/2020 - IV&V is unaware of any additional KT gaps being identified by DOH, and as such, is	Targeted KT	RISK	LOW	Closed	successfully	Diviacdonaid
		Calculator 3.0 requires BHA to take a proactive	· · ·	organizations great	abreast of communal updates and support	closing this finding.					held several KT	
		approach to support and security.	framework. As this framework is	opportunities to build and		closing this multig.					sessions for	
			relatively new, the open source	configure customized	Completed	07/31/2020 - The Project resolved the majority					this technology	
			support community is small. IV&V's	solutions at lower costs	IV&V recommends BHA continue to hold	of the outstanding Calculator 3.0 defects during					and	
			concerns include:	than through software	targeted KT sessions with RSM on	July which was implemented in the mid-sprint					functionality,	
			- The availability of reliable support	purchase or licensing.	maintaining Calculator 3.0 via a suite of tools,	release on 7/17/2020. The final Calculator 3.0					and DOH staff	
			for Vue.JS	However, open source	and determine what additional skillsets,	Knowledge Transfer session was conducted on					have stated	
			- The project's understanding of any	tools and frameworks	training, and/or resources are needed to	7/17/2020. IV&V recommends BHA to identify					that it was well	
			known vulnerabilities with Vue.JS, and	often do not come with	support BHA's long-term ownership of	and communicate any additional KT gaps to					received.	
			development of a process to remain	support models, other	Calculator 3.0 - Completed	RSM during the month of August. If no						
			current on vulnerabilities discovered	than those offered		additional needs are identified, IV&V will close						
			by the support community.	through the tool's		this finding.						
			- The RSM lead for Calculator 3.0 went	community. Because of		06/30/2020 - The project continued to focus						
			on extended parental leave in	this, the organization		attention on the Calculator 3.0 defects during						
			December 2019	bears the weight of		the month of June. RSM conducted another						
			IV&V acknowledges that BHA has	seeking out reliable help		Calculator 3.0 Knowledge Transfer session on						
			downloaded Vue.JS to start getting	and support, as well as		6/26/2020 and scheduled a final session for						
			familiar with it.	much take a proactive		7/17/2020.						
				approach to security and								
				identifying any		05/31/2020 - The project continued to focus						
				vulnerabilities in the tools.		attention on the Calculator 3.0 user stories and						
						defects during the month of May. RSM						
						conducted another Calculator 3.0 Knowledge						
						Transfer session on 5/29/2020 which IV&V						
						attended. This session included the new C3.0						
						year-end changes. Additional KT sessions is						
5.000	1/31/2020	Due to the project not following a detailed	There have been several defects	A complete, up to date,	IVV recommends documenting deployment	12/31/2020 - IV&V has closed this issue as the	Release/Deployment	Issue	Medium	Closed	Key finding has	D Macdonald
		deployment script, the project may continue	pushed to production with Phase 3	and documented	scripts for both the patch method and the full	related recommendations below has been	Planning				been	
		to experience defects related to deployment	releases. Some of the defects	deployment script is	solution upgrade method. The script(s)	completed. A subsequent medium issue finding					addressed and	
		activities.	introduced to production have been	needed to ensure the	should be in the form of a step-by-step	(#19) has been opened to address ongoing					proposed IV&V	
											· · ·	
			narrowed down to environmental	repeatability and stability	procedure that walks through from start to	deployment processes and technical execution					recommendati	
			promotional activities. In these	of DOH's production	finish of the deployment process and involve	issues.					recommendati ons have been	
			promotional activities. In these instances, the DEV and TEST	of DOH's production deployments. Since there	finish of the deployment process and involve several technical staff to ensure staff	issues. 11/30/2020 - Release 3.10 was promoted to					recommendati ons have been completed. A	
			promotional activities. In these instances, the DEV and TEST environments were not in sync with	of DOH's production deployments. Since there are currently two	finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when	issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine					recommendati ons have been completed. A subsequent	
			promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment (missing	of DOH's production deployments. Since there are currently two deployment types	finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel are	issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the					recommendati ons have been completed. A subsequent finding #19 has	
			promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment (missing business rules, missing components,	of DOH's production deployments. Since there are currently two deployment types (patches and full solution	finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel are unavailable.	issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the deployment. Root causes are suspected to be a					recommendati ons have been completed. A subsequent finding #19 has been created	
			promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment (missing business rules, missing components, missing dependencies, etc.). IVV is	of DOH's production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may	finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel are unavailable. Standardize the content of all developer	issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the deployment. Root causes are suspected to be a combination of insufficient testing from a					recommendati ons have been completed. A subsequent finding #19 has been created to address on-	
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6.000	The project lacks a documented 'Definition of Done", which could challenge the project's ability to fully achieve the goals of Phase 3.	BHA does not have a documented 'Definition of Done' (DOD) for the BHA Top 100 User Stories of for Phase 3. Because of this, it is unclear how proposed functionality/features are prioritized for each sprint, and throughout Phase 3.	The 'Definition of Done" document guides the Project's vision, business, and technical goals that are important inputs for stakeholders to develop a Roadmap for Phase 3. Without the 'Definition of Done' document, the project is likely to struggle to prioritize proposed functionality/features which may be equally important but are at odds with each other.	Project is currently in the process of creating the Definition of Done. IV&V recommends that the project create this document and socialize this with project team before end of Feb 2020 IV&V recommends that the project consider the items from the prioritized list, available resources and define "Done" as a percentage of the identified priority list with room for flexibility to add any other features/enhancements that will be identified during Phase 3.	02/29/2020 - The project created and documented the Phase 3 Definition of Done and socialized it in February. IV&V recommends the project continually review and update the Definition of Done, adjusting as/if necessary. IV&V will continue to monitor the project's adherence to Definition of Done and progress against it but is closing out this concern as of the February report.	Project Management	Concern	N/A		Definition of Done completed and socialized.	V Ramesh
7.000	The lack of consistent backlog grooming could result in the project backlog having obsolete, non-estimated, and poorly defined user stories.	user stories continues to grow. Currently, there are approximately 429 defects and requests, of which	is carrying work items that may not ever be completed for any reason, they should be removed	IVV recommends that CAMHD and DDD groom the backlog to bring it as current and accurate as possible. This should include deprecating items no longer needed, and fully defining those items that are not yet fully defined, readying them for configuration or developer resources. To the extent feasible, BHA should involve RSM SMEs in this process, if only for the interim to get "caught up" on grooming efforts. (Closed) VV recommends that the project consider utilizing an age-based methodology for the backlog that may no longer be applicable or needed by the Product Owners and developing a process for periodic cleansing of the backlog using the same methodology. (Closed)		Project Management	Risk	Low	Closed	The project has demonstrated they are consistently grooming the backlog.	D Macdonald

8.000	1/31/2020 The BHA Technical Team I	handwidth may not	The BHA Technical Team plays a role	The BHA Technical Team	The Project should investigate mechanisms	12/31/2020 - BHA stated that although most	Sprint Planning	Risk	Medium	Open		D Macdonald
8.000	1/31/2020 The BHA Technical Team T be sufficient to meet the t which could compromise	needs of the project,	The BHA Technical Team plays a role that is critical to project success. Currently, the responsibilities associated with the BHA Technical Team have expanded beyond their collective available bandwidth. IV&V notes that BHA began addressing this bandwidth issue, which includes increased collaboration with key RSM resources, and are working to potentially change the structure of the Technical Team.	leads the efforts of all technical DOH staff on the project. As such, the Team's time is both extremely valuable and scarce. If the Team's expected workload exceeds bandwidth, the project could experience	of increasing the bandwidth of the BHA	12/31/2020 - BHA stated that although most vacant positions cannot be filled at this time, they have approval to fill a vacant IT Technician position. IV&V will continue to monitor this finding. 11/30/2020 - There were no substantive changes to this finding in November. IV&V will continue to monitor. 10/31/2020 - There were no substantive changes to this finding during October. IVV will continue to monitor. 09/30/2020 - There were no substantive changes to this finding during September. IV&V will continue to monitor. 08/31/2020 - There were no substantive changes to this finding during August. IVV will continue to monitor. 08/31/2020 - There were no substantive changes to this finding during August. IVV will continue to monitor. 07/31/2020 - For Release 3.10, BHA continues to rely on the RSM Technical Team for Solution Architect and Technical Team support. While this is clearly a positive move to increase bandwidth of the BHA Technical Architect and team for the short term, the volume of work for this team continues to exceed existing capacity and may be contributing to ongoing deployment and code promotion issues. IV&V is raising the rating for this risk from low to	Sprint Planning	RISK	Meaium	Upen		U Macdonald
9.000	1/31/2020 The lack of a Product Road direction on the top produce delivered in the near term midterm, and long term c adverse impact on the Pro schedule.	uct features to be n (next 3 months), could have an	BHA does not have a single, definitive Product Roadmap for Phase 3 that addresses the functionalities, features, and / or enhancements to be built in order to fully address BHA's business needs. IV&V met with RSM and BHA on this topic in January, and notes that the project is actively working to address this concern.	functionalities/features are targeted to be built and released and when	IV&V understands that the Project is in the process of creating a Short Term; Mid Term, and Long Term Roadmap. IV&V recommends the Project complete this by the end of February 2020 to understand if there are any constraints (resources, budget) that may hinder the project from releasing the needed functionalities/features targeted for Phase 3 as documented in the Definition of Done.	02/29/2020 - In February, the project further defined the Phase 3 Product Roadmap and aligned it with the Phase 3 Definition of Done. IV&V recommends the project continually review and update both the Product Roadmap and Definition of Done, adjusting as necessary. IV&V will continue to monitor the project's adherence to the Product Roadmap and progress against it but is closing out this concern as of the February report.	Project Management	Concern	N/A	Closed	Product Roadmap aligned with Definition of Done	V Ramesh

10.000	2/21/2020	The COVID-19 pandemic and the related "stay	On 2/22/2020, the Coverner issued a	DOH stakeholder	- IV&V recommends BHA to ramp up efforts	12/31/2020 - The project continued to maintain	Droject Management	Risk	Medium	Open		D Macdonald
10.000		at home" order could hinder project activities	"stay at home, work from home	participation in key	to setup, train, and assist stakeholders on	its ability to operate with staff working	Project Management	NISK	weulum	Open		
		and negatively impact the project schedule	order" that has reduced state	activities could be	remote work devices and tools and make	remotely. As previously reported, key project						
		and budget.	departments ability to be fully	significantly hindered, not	every effort to help them to become highly	staff continue to have increases in participation						
		and budget.	functional as the large majority of	only by required remote	functional with remote access technology	of non-project activities to support the COVID-						
			state workers will be required to work		(e.g. MS	19 crisis. This includes the expedited						
			from home/remotely at least until the	· ·	Teams/Skype) - Completed	development of a high priority D365 solution						
			end of April and some offices may be	activities that could occur	- IV&V recommends the project and DOH	for Disease Tracking as well as the planning						
			completely shut down until that time	as the department could	create a detailed, documented risk mitigation	work for the expansion of the D365						
			as well. Unclear if the order will	become overwhelmed	strategy and plan that is reviewed regularly	environment to additional DOH business units.						
			extend beyond that date.	processing and providing	and revised to address the current state of	Aside from the Disease Tracking solution, IV&V						
				services due to the	the COVID-19 threat and related impacts over	notes that the CAMHD leadership time						
				resulting economic	the next 6 to 12 months - In Progress	dedicated to the COVID-19 response declined						
				impacts to citizens. Some		during December. The HI Governor announced						
				stakeholders may be	to include any new activities or updates to	in late December that furloughs will be delayed						
				unable (due to stricter	planned activities to aid the organization	due to the potential of the COVID Relief bill						
				shutdown policies) or	through this COVID-19 situation in the short	funding from the federal government. IV&V						
				unwilling to perform these	and long term - Open	continues to note that there may also be future						
				activities during this		potential budget actions by the Governor which						
				chaotic time. Planned SI		may affect the project due to projected State						
				on-site visits will also likely		budget shortfalls.						
				be changed to remote		11/30/2020 - The project has maintained its						
				which could reduce the		ability to operate with staff working remotely.						
				effectiveness of their		As previously reported, key project staff						
				project activities. Going		continue to have increases in participation of						
				forward most if not all		non-project activities to support the COVID-19						
				project activities will more		crisis. IV&V continues to note that there may						
				than likely be conducted		also be future potential budget actions by the						
11.000	5/31/2020	The lack of design reviews for complex user	There were a couple incidents during	If all requirements within a	IV&V recommends (and DOH has	07/31/2020 - The Project continues to to spend		Concern		Closed	This process	
		stories has resulted in the promotion of	May where the code promoted to	functional design are not	commenced) conducting technical design	additional time on the designs of complex user					change to	
		incomplete solutions into production.	production did not fully meet all	met, users could	reviews for complex user stories prior to	stories during June to ensure requirements and					spend extra	
			requirements of associated user	experience the inability to	development to ensure designs are complete	user story components were fully captured in					time on the	
			stories for CAMHD Progress Notes.	complete required	and all requirements associated with the	design sessions. This process change has proven					design of	
			The components that were developed	processes, resulting in	design are met. IV&V observed this activity	successful, and as such, IV&V recommends					complex user	
			and implemented were functional,	incomplete data collection	has been implemented by DOH in the month	closing this concern.					stories to	
			however the effort was complicated	and potential issues in	of May.	06/30/2020 - IV&V acknowledges the Project					ensure that all	
			by additional requirements being	service delivery.		Team continued to spend additional time on the					requirements	
			added during development that			designs of complex user stories during June to					are	
			necessitated additional changes to the			ensure requirements and user story					represented	
			design. IV&V will continue to monitor			components were fully captured in design					has proven to	
			the design review activity for large			sessions. IV&V will continue to monitor in July.					be successful.	
			user stories moving forward									
			-									
				1	1			1				

12.000	7/21/2020			The startfloor and	N(0) (12/24/2020 The sector of the reserves the	Due in et Manuel and	Risk	1	0	D Maadamald
12.000		DDD Project staffing shortages may have a continued negative effect on user adoption,	The user adoption and training efforts are hampered based on staffing	The significance and impact of OCM can never	IV&V recommends that BHA does as much as possible within its sphere of influence to	12/31/2020 - The contract to procure the interactive training toolset for onboarding new	Project Management	KISK	Low	Open	D Macdonald
		training, overall OCM activities.	shortages. DDD has stated that its	be understated. It is	increase user adoption and training. This	staff members and providers and to provide					
		training, overall ocivitactivities.	users have been found to not be	clearly a best practice that	includes procurement of the online training	refresher training to existing staff members was					
			utilizing the system to its fullest extent		toolsets to offset the need for in-person	successfully executed. Planning for the design of					
			in terms of system workflow, provide	the solution in the same	training, and adding staff as needed to	the necessary training will commence in					
			their insights and input, follow up, etc.	manner. Variations in how	support OCM and technical efforts.	January. Additionally, DDD has secured a					
			To assist in OCM activities, DDD has	the system is utilized by its	IV&V recommends DOH perform a detailed	contract for temporary Report Writing services.					
			defined the need for an interactive	users is likely to cause	investigation of the specific variations as to	IV&V will continue to monitor.					
			training tool to support Inspire.	variations in data	how the system is currently being used by	11/30/2020 - Procurement of the interactive					
				collection and analytical	the user community. Consequently, users	training toolset for onboarding new staff					
				efforts using the data	would be provided with constructive	members and providers and to provide					
				collected.	feedback on how the system should be	refresher training to existing staff members is					
					utilized where gaps exist. This will likely lead	currently pending RSM agreement of terms and					
					to additional refresher training to close	subsequent completion of an MOU. This is					
					identified system knowledge gaps.	expected to be finalized in December. DOH has					
						also posted a procurement request for Report					
						Writing services, and the end date for the					
						posting is 11/30/2020. Lastly, DOH is					
						considering the addition of a technical					
						deployment specialist for the project, however					
						this procurement has not yet been released.					
						IV&V will continue to monitor.					
						10/31/2020 - To assist in OCM activities, DDD					
						has submitted a draft Agreement of Services to					
						procure an interactive training toolset for					
						onboarding new staff members and providers					
						and to provide refresher training to existing					
13.000	8/31/2020	PII/PHI data in non-production environments	IV&V has been made aware that	Failure to secure PII/PHI	IV&V recommends if production data is	12/31/2020 - BHA is still in the process of	Project Management	Risk	Low	Open	D Macdonald
			PII/PHI data currently exist in a non-	data leaves the	necessary in any non-production	establishing a plan for managing PHI/PII data					
			production environment to meet	organization open to	environment that DOH establishes a plan for	and plans to complete this effort in February					
			project needs. Generally this is not a	highly targeted social	effectively managing the security of the	after Release 3.12. IV&V will continue to					
			good security practice as the presence	engineering attacks, heavy	PII/PHI data, including the potential masking	monitor this finding.					
			of PII/PHI data in non-production	regulatory fines, and loss	of data.	11/30/2020 - DOH is still in the process of					
			environments increases the potential	of client trust and loyalty.	IV&V recommends that DOH mitigates this	establishing a plan for managing PHI/PII data					
			for theft, loss or exposure thus		finding by removing and/or masking any	and plans to complete this effort in December.					
			increasing the organization's risk.		PHI/PII data in its non-production	Due to the security nature of PHI/PII data, IV&V					
			Failure to secure PII/PHI data leaves		environments.	has escalated this finding from a preliminary					
			the organization open to highly			concern to a low priority risk and will continue					
			targeted social engineering attacks,			to monitor this finding.					
			heavy regulatory fines, and loss of			10/31/2020 - DOH is still in process of					
			client trust and loyalty.			establishing a plan for managing PHI/PII data.					
						IV&V will continue to monitor this finding.					
						09/30/2020 - DOH recognizes this concern and					
						is in the process of establishing a plan to					
						manage this data. When completed, this plan					
						will include reducing the volume of PHI/PII data					
						in non-production environments as well as					
						mask PHI/PII data that is required for project					
						activities. IV&V will continue to monitor this					
		1		1	1	preliminary data security concern.		1	1	1	
						, ,					

14.000	8/31/2020	Project not able to access Activity Logs	The Project recently deployed audit	The unavailability of	IV&V recommends that DHS continues to	12/31/2020 - The planning effort for identifying	Polozco/Donloymont	Risk	Low	Open	D Macdon
14.000	8/31/2020	Froject not able to access Activity LOgs	The Project recently deployed audit log functionality into production	activity logs may hamper	collaborate with Microsoft until the activity	the entities that will require activation of the	Planning	NISK	2000	open	Diviacuon
			whereby these logs can be accessed	the investigation of future	logging feature is available in all BHA non-	new activity logs was completed during	i idiiiiiig				
			and exported as needed. However,	security breaches.	production environments.	December. The implementation effort has been					
			IV&V was made aware access to	Security breaches.	production environments.	prioritized for inclusion in Release 3.12. IV&V					
			activity logging for users with just view	,		will continue to monitor this finding until					
			permissions will not be available from	() 		implemented.					
			Microsoft in the public sector			11/30/2020 - The DOH technical team has					
			environment until the end of			commenced the analytical effort to determine					
			September 2020. The unavailability of			which entities to activate the logging features					
			these specific activity logs could			for, as well as which entities will not require this					
			potentially hamper the investigation			action. IV&V will continue to monitor this					
			of future security events until			finding until successfully implemented.					
			implemented.			10/31/2020 - Microsoft's implementation of					
						the optional components of the logging features					
						remain scheduled for 10/31/2020. IVV will					
						continue to monitor the implementation of					
						these features in the DOH non-production					
						environments during November.					
						09/30/2020 - DOH reported that Microsoft's					
						implementation of the logging features is split					
						between mandatory and non-mandatory					
						components. The mandatory components were					
						released by Microsoft during the week of					
						9/14/2020, and the rollout of this functionality					
						is currently in process for DOH's non-production					
						environments. Release of the optional					
15.000	9/30/2020		System defects identified in August	The identified quality	To address quality issues, the Project should	12/31/2020 - BHA recognizes the impact of the	Project Management	Issue	Medium	Open	D Macdon
		may continue to face impactful system	that affected claims were due to multi-		continue to pursue and/or consider:	quality concerns and has initiated weekly					
		defects.	faceted quality issues were	affected DOH billing	1) Perform revenue neutrality fiscal balance	meetings with the development and test teams					
			individually addressed during this	processes and DOH has	testing on a quarterly basis to ensure	in order to increase the quality assurance effort					
			reporting period. IV&V notes that	stated these are the most	revenues are as expected.	of each release going forward. This effort has					
			there is one remaining defect still	impactful defects	Performing typical project testing including	expanded to more of a team approach to					
			being evaluated that affects a limited	discovered to date.	System Integration, User Acceptance,	managing quality for releases and includes					
			number of claims. Overall, the Project		Performance, and Regression Testing.	efforts to further develop the quality					
			Team has responded with a		3) Assigning a dedicated resource to provide	components of all user stories and requests to					
			commitment to increase project		oversight of CAMHD Fiscal Processes.	ensure the test goals are well known by all prior					
			quality and is in the process of		4) BHA and RSM to collaborate on the	to development being initiated. IV&V will					
			identifying improvements to		necessary revisions to the submitted design	continue to monitor this medium priority					
			associated testing processes. These		deliverables to increase level of detail and	project issue.					
			currently include:		quality - Completed	11/30/2020 Quality issues persist as					
			Performing Revenue Neutrality		5) Monitor implemented improvements for	approximately nine (9) new defects were found					
			Testing to ensure expected revenue		effectiveness.	in Release 3.10. RSM has acknowledged the					
			streams are largely unchanged from			quality concerns and inclusive of their weekly					
			one period to the next.			status reporting have stated they are					
			Conducting System Integration			incorporating additional testing considerations					
			Testing, User Acceptance Testing,			into the SIT/Regression, and UAT processes, to					
			Performance Testing, and Regression			include:					
			Testing for Release 3.10.			- Tagging Provider Portal and Consent Registry					
			IV&V will continue to monitor the			development team items affecting screens that					
			testing efforts throughout the balance			display PHI					
	te			1		- Adding negative test steps to Test Cases to					
			Int Release 3 10 and validate that								
			of Release 3.10 and validate that								
			enhanced quality processes, including			verify minimum necessary data visibility when					

16.000	10/5/2020	Usage of Semantics and IDM for development	The project noted its intent to obtain		12/31/2020 - IV&V is aware that an overview of	Targeted KT	Concern		D Macdonald
10.000		-					concern		Diviacuoriaiu
		and ongoing maintenance of the system	more targeted knowledge transfer of		the Semantics Layer KT session was held on				
			both the Semantics Reporting and IDM		12/16/20. The planning effort will result in				
	:	support of these tools.	tools. IV&V will continue to monitor		additional Semantic Layer and IDM KT sessions				
			this concern.		in the coming months. IV&V will continue to				
					monitor this finding.				
					11/30/2020 - The project conducted two high-				
					level overview sessions of the Semantic Layer				
					Reporting tools during November. One session				
					was focused on the overall Semantic Layer, and				
					the second session was focused on Semantic				
					Layer Security. Additional targeted Knowledge				
					Transfer sessions on the Semantic Layer tools				
					will need to be provided by RSM; however,				
					these have not been scheduled. IV&V will				
					continue to monitor this finding.				
					10/31/2020 - The project intends to obtain				
					more targeted knowledge transfer for both the				
					Semantics Reporting and IDM tools and will be				
					planning and scheduling these sessions with the				
					RSM team in the near future. IV&V will continue				
					to monitor this concern.				
							-		
17.000		The bandwidth of CAMHD Leadership is being		CAMDH Leadership	12/31/2020 - The planning effort for the	Project Management	Concern		D Macdonald
	1	hampered by planning tasks and activities for	approval to commence planning	participation in key	expansion of the case management solution to				
	4	assessing project expansion to other divisions.	efforts for expansion of the project for		the other DOH divisions continued during				
			ADAD and AMHD & HSH. CAMHD	significantly hindered by	December. CAMHD Leadership continues to				
			Leadership currently spends 25% of	the flood of activities that	dedicate approximately 25% of available time				
			their available time dedicated to this	could occur as the	to this planning effort and it is anticipated that				
			planning effort.	department assesses	the level of effort will continue to increase in				
				expansion of this project	the coming months. On the positive side,				
				to the balance of divisions.	CAMHD leadership time dedicated to the COVID				
					response decreased during December. IV&V will				
					continue to monitor this concern.				
					11/30/2020 - The planning effort for the				
					expansion of the case management solution to				
					the other DOH divisions project continued.				
					CAMHD Leadership continues to dedicate				
					approximately 25% of available time to this				
					planning effort, and it is anticipated that the				
					level of effort will likely continue to increase in				
					the coming months.				
				1		1		1	

18.000	11/30/2020	Due to consistent technical issues requiring	The IDM and Semantic layer efforts		IV&V recommends the project to continue to	12/31/2020 - While most of the issues requiring	Polozco/Doploymont	Issue	Medium	Open		D Macdonald
18.000	, ,	escalation to Microsoft, the IDM and Semantic	have experienced several delays		monitor the status of outstanding Microsoft	escalation to Microsoft were adequately	Planning	issue	meulum	Open		Diviacuonald
		Layer project efforts are being delayed.	attributable to issues escalated to		tickets and to escalate the priority of these	addressed during December, the Azure Data	i idiiiiiig					
			Microsoft. The issues have ranged		tickets as deemed necessary.	Factory (ADF) 'first 10 rows missing data' issue						
			from administrative / communication			remain open. BHA has created a work around						
			(entering issues into the Commercial			for this issue while awaiting a permanent and						
			support instance vs the Government			reliable resolution from Microsoft. Additionally,						
			Cloud support instance), to several key	,		the Project awaits the "Datalake" function fix						
			technical issues requiring assistance to			from Microsoft to address a priority IDM issue.						
			resolve. To date, these support needs			The fix was intended to be delivered the end of						
			have added over a month to the IDM			2020 but that did not pan out. No new target						
			and Semantic Layer project schedules.			date has been provided by Microsoft. IV&V will						
						continue to monitor this issue in January.						
						11/30/2020 - The IDM and Semantic layer						
						efforts have experienced several delays						
						attributable to issues escalated to Microsoft.						
						The issues have ranged from						
						administrative/communication (entering issues						
						into the Commercial support instance vs the						
						Government Cloud support instance) to several						
						key technical issues requiring assistance to						
						resolve. To date, these support needs have						
						added over a month to the IDM and Semantic						
						Layer project schedules.						
19.000	12/31/2020	Due to on-going deployment processes and	There have been several defects	Repeatable documented	Develop a plan to institutionalize the	12/31/2020 - Release 3.11 was promoted to	Release/Deployment	Issue	Medium	Open		D Macdonald
		technical execution issues, the project may	pushed to production with Phase 3	release and deployment	execution of "Smoke Testing" for promotions	production on 12/13/2020. The promotion to	Planning					
		continue to encounter defects and challenges	releases. Some of the defects	will help ensure that	to non-production and production	the test environment for final testing and						
		in meeting projected timelines for production	introduced to production have been	mistakes are minimized,	environments. This will help to ensure that	execution of regression test scripts prior to						
		and non-production deployments.	narrowed down to environmental	and that functionality is	all components needed to test have been	production deployment was missing software						
			promotional activities. In these		properly deployed prior to the actual	components. As a result, several user stories						
			instances, the DEV and TEST	when deployments take	execution of test activities.	and defects were not tested as planned and						
			environments were not in sync with	place.	Work in collaboration with RSM to establish a	were excluded from the production						
			the production environment (missing		plan for DOH to assume all deployment	deployment. These items were subsequently re-						
			business rules, missing components,		activities to ensure complete ownership of	prioritized to be resolved in a Mid Sprint						
			missing dependencies, etc.). IVV is		these processes. This should assist with	Deployment in mid January or R3.12 in						
			aware that DOH staff shadowed RSM staff for all deployment releases		consistency in approach and execution going forward.	rebruary.						
			during Phase 2 with RSM providing		As appropriate, consult with RSM on best							
			instruction and DOH staff physically		practices that BHA could employ to support							
			executing the tasks and activities via		deployment.							
			keyboard. For Phase 3, it is unclear		Look at implementing 'hard' code freeze							
			whether a complete, up to date, and		dates as well as test environment							
			documented deployment script, or		deployment dates to ensure that testing and							
			deployment notes, are being utilized		deployment activities are not rushed.							
			by BHA for deployment activities.		COMPLETED							
					Request the assistance of the RSM Solution							
					Architect in reviewing and correcting issues							
					associated with consistency of the							
					configurations across environments, ensuring							
					that the test environment is capable of							
1				1	testing ALL functions of any given release	1	1	1		1 1		
					without the need for using multiple test							