

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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

February 8, 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 http://ets.hawaii.gov (see "Reports").

Sincerely,

DOUGLAS MURDOCK Chief Information Officer State of Hawai'i

State of Hawai

Attachment (2)



Hawaii BHA Integrated Case Management System Project – *Phase 3*

Final IV&V Report for the period of January 1 – January 31, 2021

Final submitted: February 5, 2021



Agenda

Executive Summary

IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





Executive Summary

The Project deployed a Mid-Sprint Deployment (MSD) to production on 1/15/2021. Similar to other recent releases, post-production issues and deprecated system functionality were encountered.

Anomalies have also been identified in the non-production environments, and root cause analysis is currently in progress. For the sake of quality, the Project Team has delayed the R3.12 deployment until the underlying issues have been identified and resolved.

IV&V has elevated the criticality rating for findings related to release deployment, regression testing, quality, and Microsoft Issues from medium to high for this reporting period. IV&V suggests that the Project consider our recommendations in its issue mitigation efforts which should begin as soon as possible to avoid the reoccurrence of similar issues for upcoming planned releases.

The development of the IDM and Semantics Layer workstreams deployment dates have slipped due to workarounds for lingering Microsoft technical issues. Despite the schedule slippage, IV&V notes that the IDM functionality cannot be used by the additional divisions until compliance with Federal/regulatory requirements is met in March.

Nov	Dec	Jan	Category	IV&V Observations
posted in February. IV&V continues to recommend BHA seek additional skill Dynamics resources to permanently fill their technical support needs, especi considering DOH's upcoming workload volume. The rating for this category resources to permanently fill their technical support needs, especially and the results of the rating for this category resources.		The CAMHD technical resource recruitment announcement approved in December will be posted in February. IV&V continues to recommend BHA seek additional skilled MS Dynamics resources to permanently fill their technical support needs, especially considering DOH's upcoming workload volume. The rating for this category remains a Yellow (medium criticality) for the January reporting period. IV&V will continue to monitor this category moving forward.		
G			There are no active findings in User Story (US) Validation category which remains Green (low criticality) for the January reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.	
Y	and deprecated system functionality which is attributable to insufficient release deployment and regression testing practices/processes. IV&V continues to reconstruct the development of automated regression test scripts. IV&V has elevated the development of automated regression test scripts.		The project deployed an MSD to production in January resulting in post release defects and deprecated system functionality which is attributable to insufficient release deployment and regression testing practices/processes. IV&V continues to recommend the development of automated regression test scripts. IV&V has elevated the criticality rating for this category from a Yellow (medium) to a Red (high) for the January reporting period. IV&V will continue to monitor this category.	

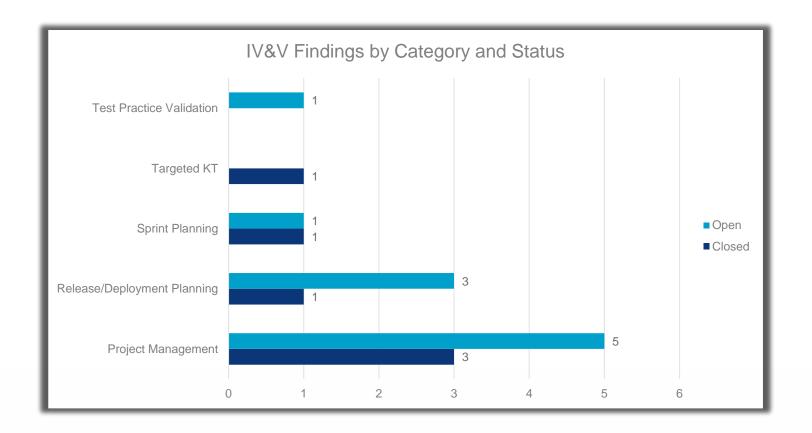
Executive Summary

Nov	Dec	Jan	Category	IV&V Observations
Y	Y	(1)	Release / Deployment Planning	The criticality rating for this category has been elevated from a Yellow (medium) to Red (high) for the January reporting period. Deployment issues continue to negatively impact releases as was the case with the MSD deployment in January. IV&V has added another new recommendation to help mitigate release deployments issues. IV&V recommends immediate remediation efforts considering our finding recommendations. IV&V will continue to monitor this category in February.
G	G	G	OJT and KT Sessions	The criticality rating for the OJT and KT Sessions category remains Green (low) for the January reporting period with no active findings.
G	G	G	Targeted KT	The Targeted KT criticality rating remains Green (low) for the January reporting period. The Project Team has completed planning efforts for the KT sessions on Semantics Reporting and IDM tools and has moved forward with the execution of the KT plan. IV&V has closed the related preliminary concern and will continue to monitor this category moving forward.
G			The Project performance metrics for R3.12 will be reported when they are released into production. 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 (low). The next OMA will be planned for March 2021.
Y	Y	Y	Project Management	Quality and BHA Leadership bandwidth continue to remain a concern for IV&V. Quality issues have impacted DDI activities. Leadership's ability to focus on resolving project risks and issues has been difficult. The criticality rating for this category remains a Yellow (medium) for the January reporting period. IV&V will continue to monitor this category in February.



Executive Summary

As of the January 2021 reporting period, there are a total of ten open findings – four High Issues, two Medium Risks, and four Low Risks spread across the Sprint Planning, Release / Deployment Planning, Test Practice Validation, Targeted Knowledge Transfer, and Project Management assessment areas.





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



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. Due to internal DOH processes, the recruiting announcement for CAMHD's open IT Technician position was delayed until February. IV&V will continue to monitor this finding.	M
	IV&V notes that the RSM Team continued to provide essential support during January, alleviating some of the bandwidth concerns expressed by DOH to meet crucial project needs. Due to RSM resource levels being significantly reduced in March, the balance of agile releases will also be reduced in scope.	

Recommendations	Status
The Project should investigate mechanisms of increasing the bandwidth of the BHA Technical Team, either by 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.	In progress
The Project should evaluate where process inefficiencies can be addressed and streamlined to possibly free up the BHA Technical Team's availability.	In progress



Sprint Planning (cont'd)

Recommendations	Status
The Project should consider the formation of a first level M&O resource team to triage/address products in a timely manner, without disrupting new development work.	oroduction In progress
The Project should consider procurement of an online training toolset to support OCM and technoffset the need for in-person training.	nical efforts to Completed



Test Practice Validation

#	Key Findings	Criticality Rating
2	Changed from Medium Issue to High Issue – As a result of regression testing not being consistently performed, production releases are breaking and/or deprecating existing functionality in the production environment. A Mid-Sprint Deployment to production was released on 1/15/21 to address high priority defects. Consistent with previous releases, issues in the production environment were observed and existing functionality was deprecated (e.g., SIS assessment scores). Although root cause analysis is ongoing, these issues are likely related to insufficient deployment and regression testing practices. Efforts to commence the initial automate regression testing setup was scheduled to occur upon completion of R3.12 in February but has now been postponed to start in March during Release 3.13.	Н
	IV&V has escalated this issue from a medium to a high criticality rating for this reporting period as these adverse conditions continue to create rework for the project which impacts planned DDI work. IV&V will continue to monitor this finding.	

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



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



Release / Deployment Planning

#	Key Findings	Criticality Rating
19	Changed from Medium Issue to High Issue - 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. A planned Mid-Sprint Deployment (MSD) to production was released on 1/15/2021 to address high priority defects. Post MSD production issues resulted, and existing functionality was deprecated (e.g., SIS assessment scores). Although root cause analysis is on-going, it is suspected these issues stem from insufficient deployment and regression testing. DOH has confirmed that at least one needed software component was inadvertently missed from the deployment to production. The inconsistencies within the non-production and production environments continue to contribute to non-production environment testing issues as well as production environment defects. IV&V has elevated this issue to a high criticality rating for this reporting period as these adverse conditions continue to cause unplanned rework for the project impacting overall planned DDI work. Immediate resolve is recommended, and IV&V suggests the consideration of our recommendations (including the new recommendation added this reporting period) as guidelines for remediation.	H

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. 	Open
 Work in collaboration with RSM to establish a transition 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. 	n Open



Release / Deployment Planning (cont'd)

Recommendations	Status
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
 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 recommends updating the Project's Configuration Management Plan to address the current needs of the Project. This should include specific checklists geared at ensuring repeatable promotional processes by DOH. 	New



Release / Deployment Planning (cont'd)

#	Key Findings	Criticality Rating
18	Changed from Medium Issue to High Issue – Due to consistent technical issues requiring escalation to Microsoft, some project efforts are being delayed. While most of the Microsoft issues were fixed, the 'first 10 rows', the 'multi-select options', and 'unmanaged layer on the Case entity' issues are partially outstanding impacting project timelines. As temporary measures, the project has developed workarounds. Per BHA, the Product Roadmap for the GCC product continues to lag behind commercial instances which causes uncertainties for the BHA-ITS Project. BHA plans to meet with senior Microsoft management to discuss during February. IV&V will continue to monitor.	(1)
Recor	nmendations	Status
 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



Targeted KT

#	Key Findings	Criticality Rating
16	Closed 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. The project has made great strides addressing this concern. A Semantics Layer KT session was conducted on 1/29/21 and multiple IDM and Semantic Layer sessions has been scheduled in February. IV&V is closing this finding as we no longer view this item as a concern.	Closed



Project Management

#	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. No substantive changes were observed in January. The project continued to maintain its ability to operate with staff working remotely. As previously reported, key project staff continue to have responsibility for participating in non-project activities to support the COVID-19 crisis. 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 potential future budget actions by the Governor due to projected State budget shortfalls, including furloughs that are planned to be re-evaluated in July. If realized, these actions could have negative effects on project funding.	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	Changed from Medium Issue to High Issue – Due to multiple quality concerns, the project may continue to face impactful system defects. Quality issues persisted in January as regression testing and deployments (non-production and production) issues have impacted the planned DDI activities. Root cause analysis (people, process, tools) and immediate remediation is highly recommended, as these issues are the project's largest and most impactful. IV&V notes that to improve quality, DDD is currently performing revenue neutrality testing to validate release changes have not impacted existing billing functionality. However, due to on-going quality issues, IV&V has promoted this finding to a high critical rating and will continue to monitor moving forward.	Н
Recon	nmendations	Status
Perform revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.		
	form typical project testing including System Integration, User Acceptance, Performance, and Regression ting.	In Progress
• Ass	ign dedicated resources to provide oversight of CAMHD Fiscal Processes.	In Progress
	A and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase of detail and quality.	Completed
• Mor	nitor implemented improvements for effectiveness.	In Progress
• Eva	luate existing project staff skills and experience level to ensure they meet BHA support requirements.	New



#	Key Findings	Criticality Rating
13	Low Risk – PII/PHI data in non-production environments. No substantive changes were observed in January. BHA is still in the process of establishing a plan for managing PHI/PII data. This effort remains anticipated to commence in February, after Release 3.12 is completed. IV&V will continue to monitor this finding.	

Recommendations	Status
• IV&V recommends if production data is necessary in any non-production environment that DOH establishes a plan 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 minimizing and/or masking PHI/PII data in designated non-production environments. 	In Progress
 IV&V recommends DOH consider limiting the volume of environments and access necessary to support development work, which should help minimize this risk. 	New



#	Key Findings	Criticality Rating
12	Low Risk – DDD Project resource shortages may have a continued negative effect on user adoption, training, and overall OCM activities. Training design activities using the interactive training toolset commenced in January and has attained good progress. The use of this tool is expected to provide some bandwidth relief for DDD staff members responsible for onboarding new staff members and providers, and to provide refresher training to existing staff members. IV&V will continue to monitor this finding.	0

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 implementation effort for this activity moved forward in January. Some of the entities will have activity logging completed in the planned February Release 3.12, while others will be delayed until Release 3.13. IV&V will continue to monitor.	L

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



#	Key Findings	Criticality Rating
17	Changed from Preliminary Concern to Low Risk – The bandwidth of CAMHD Leadership is being hampered by planning tasks and activities for assessing project expansion to other divisions. The CAMHD Leadership is now spending upwards of 1/3 of available time in the planning effort for Phase 4 of the Project, which is intended to expand the D365 solution to the remaining DOH divisions. The level of dedication to this effort is certain to continue to increase in the coming months.	L

Recommendations	
 IV&V recommends CAMHD look for opportunities to augment the management staffing for planning Phase 4 and M&O work. 	In Progress



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 	January – The project deployed an MSD on 1/15/2021 which put an additional 17.8 User Story Points (USPs) out of the planned 300 USPs for Release 3.12 (February deployment) into production. This increased the cumulative story points for Phase 3 to 1316.8. Actual user story points released to production will not be available until the release is completed.	N/A



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 	January - The Project Scrum Master closely tracks the USP daily. Determining the delta between USP estimates and actuals is a work in progress.	January – 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. The Project will need to revisit this metric given the lack of information needed to effectively provide meaningful status updates.

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 	January – Release 3.12 is planned for February. Defect metrics will not be available until the release is completed.	N/A

Organizational Maturity Assessment

Measure IV&V Observations

The Organizational Maturity Assessment (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 AIV&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
(1)	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 January 2021 reporting period:

- Daily Scrum Meetings (selected)
- 2. Twice Weekly RSM Issues Meeting
- 3. Weekly BHA-ITS Project Status Meeting
- 4. Bi-Weekly Check-in: CAMHD
- 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 #5 held on 1/28/2021

Eclipse IV&V® Base Standards and Checklists

Artifacts reviewed during the January 2021 reporting period:

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



Appendix C: Project Trends

Appendix C Project Trends

Trend:	Overal	l Projec	t Health	1						
Process Area					2020	-2021				
Process Area	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
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										
Total Open Findings	6	6	6	6	7	7	10	11	11	10
Issue - high	0	0	0	0	0	0	0	0	0	4
Issue - medium	1	0	0	0	1	2	2	4	4	0
Issue - low	0	1	1	1	0	0	0	0	0	0
Risk - high	1	1	0	1	0	0	0	0	0	0
Risk - medium	0	0	2	2	3	3	3	2	2	2
Risk - low	4	3	2	1	0	0	0	3	3	4
Preliminary Concern	0	1	1	1	3	3	5	2	2	0





Solutions that Matter

ID No	Identified Dat	Title	Observation	Significance	Recommendation	Updates	Process Area	Finding Type	Priority	Status	Closure Reaso	Risk Owner
1.000	12/31/2019	Detailed investigation into the project's	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	V Ramesh
		sprint planning processes and adoption of	following topics as they relate to Sprint	roadmap is good, the	identify what feature enhancements will be	will be tracking items related to Definition of					multiple new	
		generally accepted agile best practices.	Planning and the project's overall	project should be able to	targeted for each Release and should clearly	Done, roadmap, resourcing, and backlog					items being	
			approach to agile software	identify what feature	map out the roadmap out through the last	grooming in new, separate findings.					tracked at a	
			development:	enhancements will be	Phase 3 release in September 2020.						more	
			- IV&V acknowledges that the project is	targeted for each planned	Additionally, the project should clearly						granular	
			now planning three sprints outs,	release. This roadmap will	define "Done" to ensure the project team is						level, this	
			however, it appears that only a "high-	help the project manage	working towards the same goal and increase						item has	
			level" sprint planning roadmap has	scope and productivity.	opportunities for success. Having a clear						been closed.	
			been produced, and it is unclear exactly	**	"definition of done" will help provide the							
			how the project is targeting features for	· ·	project with guidance on how to stay within							
			each release through the end of Mod 4.	artifact to ensure that the	scope.							
			- IV&V is not aware of how the project is currently defining "done" for Mod 3	project is successful.								
			and Mod 4	Otherwise, the project will struggle to prioritize								
			Additionally, in the January 2020	requests/enhancements								
			reporting period, IV&V will seek	and manage scope.								
			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	12/21/2010	As a result of regression testing not being	D2.2 introduced a defeat that	They are bushing and	To address represeits testing the Dusiest	01/21/2021 A Mid Soviet Deployment to	Test Practice Validation	lanua	High	0		D Macdonald
2.000	12/31/2019	As a result of regression testing not being consistently performed, production	R3.3 introduced a defect that deprecated features in production	Thorough vetting and validation of regression test	To address regression testing, the Project should continue to pursue and/or consider:	01/31/2021 - A Mid-Sprint Deployment to production was released on 1/15/21 to address	rest Practice Validation	issue	nign	Open		Diviaccionalc
		releases are both breaking and	specific to Integrated Support and Life	cases is necessary to	Updating the regression test scripts to	high priority defects. Consistent with previous						
		deprecating existing functionality in the	Trajectory functionality. DDD has	prevent both defects and	ensure consistency with system	releases, issues in the production environment						
		production environment.	informed IV&V that there are other	the deprecation of	configuration - Completed	were observed and existing functionality was						
		production city of micros	examples of functionality being	production functionality	Modifying release schedules to allow for	deprecated (e.g., SIS assessment scores).						
			deprecated after a release, some of	when a release is pushed	regression testing timeframes - Completed	Although root cause analysis is ongoing, these						
			which are still being investigated. As of	live. When defects occur in	3. Grouping releases by functionality type to							
			this report, IV&V has not evaluated the	production, the project	avoid unnecessary repetitive work being	deployment and regression testing practices.						
			project's root cause analysis (RCA)	should follow a defined and	performed in any given section of the	Efforts to commence the initial automate						
			process used to determine why such	repeatable process for	solution - Completed	regression testing setup was scheduled to occur						
			functionality was deprecated but will	determining the root cause	4. Performing regression testing after every	upon completion of R3.12 in February but has						
			discuss further with BHA in January	of the problem.	release, or possibly every other release, or	now been postponed to start in March during						
			2020.		potentially tying regression tests to full	Release 3.13.						
					solution upgrade releases. In addition,	IV&V has escalated this issue from a medium to						
					consider alternating the DDD and CAMHD	a high criticality rating for this reporting period		1				
					scripts every other release - In Progress	as these adverse conditions continue to create		1				
					5. Modifying regression test scripts to start	rework for the project which impacts planned						
					AFTER case creation, limiting the time it takes to execute - Completed	DDI work. IV&V will continue to monitor this finding.		1				
					6. Modifying the deployment scripts based	12/31/2020 - Release 3.11 was promoted to		1				
					on information gained from previous	production on 12/13/2020. The quality						
					release deployments - Completed	assurance and regression testing was rushed		1				
1					7. Pursuing additional formal training in	due to an incomplete deployment to test, which						
1			•			1		1		1		
					AzureDevOps for test automation at the	resulted in insufficient time to adequately test						
					AzureDevOps for test automation at the earliest possible juncture and commence	resulted in insufficient time to adequately test all functionality in the release from a business						

2 (000	12/31/2019	Usage of open source JavaScript	IV&V learned in December 2019 that	Open source tools and	IV&V recommends BHA work to establish a	08/31/2020 - IV&V is unaware of any additional	Targeted KT	Risk	Low	Closed	RSM has	D Macdonald
3.0	000		framework for development and ongoing	the Calculator 3.0 functionality is built	frameworks offer	reliable and repeatable process for keeping	KT gaps being identified by DOH, and as such, is	rargeted KT	NISK	LOW	Ciosea	successfully	Diviaccionalc
			maintenance of Calculator 3.0 requires	in Vue.JS, an open source JavaScript	organizations great	abreast of communal updates and support	closing this finding.					held several	
			BHA to take a proactive approach to	framework. As this framework is	opportunities to build and	opportunities for a new suite of tools -	Closing this initing.					KT sessions	
			support and security.		configure customized	Completed	07/31/2020 - The Project resolved the majority					for this	
			support and security.	community is small. IV&V's concerns	solutions at lower costs	IV&V recommends BHA continue to hold	of the outstanding Calculator 3.0 defects during					technology	
				include:	than through software	targeted KT sessions with RSM on	July which was implemented in the mid-sprint					and	
				- The availability of reliable support for	purchase or licensing.	maintaining Calculator 3.0 via a suite of	release on 7/17/2020. The final Calculator 3.0					functionality,	
				Vue.JS	However, open source	tools, and determine what additional	Knowledge Transfer session was conducted on					and DOH	
				- The project's understanding of any		skillsets, training, and/or resources are	7/17/2020. IV&V recommends BHA to identify					staff have	
				known vulnerabilities with Vue.JS, and	do not come with support	needed to support BHA's long-term	and communicate any additional KT gaps to					stated that it	
				development of a process to remain	models, other than those	ownership of Calculator 3.0 - Completed	RSM during the month of August. If no					was well	
				current on vulnerabilities discovered by		ownership of calculator 5.0 completed	additional needs are identified, IV&V will close					received.	
				the support community.	community. Because of		this finding.					received.	
				- The RSM lead for Calculator 3.0 went	this, the organization bears		06/30/2020 - The project continued to focus						
				on extended parental leave in	the weight of seeking out		attention on the Calculator 3.0 defects during						
				December 2019	reliable help and support,		the month of June. RSM conducted another						
				IV&V acknowledges that BHA has	as well as much take a		Calculator 3.0 Knowledge Transfer session on						
				downloaded Vue.JS to start getting	proactive approach to		6/26/2020 and scheduled a final session for						
				familiar with it.	security and identifying any		7/17/2020.						
					vulnerabilities in the tools.								
							05/31/2020 - The project continued to focus						
							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						
5.0	000	1/31/2020	Due to the project not following a detailed	There have been several defects pushed	A complete, up to date, and	IVV recommends documenting deployment	12/31/2020 - IV&V has closed this issue as the	Release/Deployment	Issue	Medium	Closed	Key finding	D Macdonald
			deployment script, the project may	to production with Phase 3 releases.	documented deployment	scripts for both the patch method and the	related recommendations below has been	Planning				has been	
			continue to experience defects related to	Some of the defects introduced to	script is needed to ensure	full solution upgrade method. The script(s)	completed. A subsequent medium issue finding					addressed	
			deployment activities.	production have been narrowed down	the repeatability and	should be in the form of a step-by-step	(#19) has been opened to address ongoing					and	
				to environmental promotional	stability of DOH's	procedure that walks through from start to	deployment processes and technical execution					proposed	
				activities. In these instances, the DEV	production deployments.	finish of the deployment process and	issues.					IV&V	
				and TEST environments were not in	Since there are currently	involve several technical staff to ensure	11/30/2020 - Release 3.10 was promoted to					recommenda	
				sync with the production environment	two deployment types	staff availability to accomplish these tasks	production on 11/11/2020. Approximately nine					tions have	
				(missing business rules, missing	(patches and full solution	when primary deployment personnel are	(9) new defects were identified after the					been	
				components, missing dependencies,	upgrades), two scripts may	unavailable.	deployment. Root causes are suspected to be a					completed. A	
				etc.). IVV is aware that DOH staff	be warranted. An	Standardize the content of all developer	combination of insufficient testing from a					subsequent	
				shadowed RSM staff for all deployment	embedded process and	deployment task notes, with a goal of	business perspective coupled with deployment					finding #19	
				releases during Phase 2 with RSM		eliminating any potential ambiguity to the	issues. A bulk record update task required as					has been	
				providing instruction and DOH staff	ensure that mistakes are	Deployment Team, resulting in a cleaner	part of the implementation was not included in					created to address on-	
				physically executing the tasks and activities via keyboard. For Phase 3, it is	minimized, and that	and more repeatable set of deployment processes and instructions.	the deployment, resulting in contacts being deprecated from the Circle of Support in Inspire.					going	
				unclear whether a complete, up to date,	mistakenly deprecated	processes and instructions.	It is unclear if any other deployment issues may					deployment	
				' ' '	when deployments take		have also contributed to the new defects.					processes	
				and documented deployment script, or deployment notes, are being utilized by	place.		Deployment corrections were applied in a mid					and technical	
				BHA for deployment activities.	piace.		sprint release on 11/27/2020. Based on the					execution	
				Driver of deproyment activities.			recurrence of this finding, IV&V has changed					issues.	
							this Risk to an Issue and will continue to monitor					.55465.	
							until resolved.						
- 1				1	1		10/31/2020 - The RSM and DOH Teams have						
- 1													
							1 ' '						
							collaborated to develop a detailed Production Deployment Guide for R3.10 and are in the						
							collaborated to develop a detailed Production						

6.000	project's ability to fully achieve the goals of Phase 3.	'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.	important inputs for stakeholders to develop a Roadmap for Phase 3. Without the 'Definition of Done' document, the project is likely to struggle	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.	adherence to Definition of Done and progress against it but is closing out this concern as of the	Project Management		N/A	Definition of V Done completed and socialized.	
7.000	defined user stories.	The backlog of defects, requests, and user stories continues to grow. Currently, there are approximately 429 defects and requests, of which almost 200 have a status of 'New'. IVV notes that a large percentage of the backlogged work items do not have user story points estimated. Many of the items listed in the backlog are old, and some may have had needs or requirements change over time or may now be obsolete. IV&V notes that DDD and CAMHD have initiated this effort and agreed to prioritize grooming the backlog by the end of February.	1 '	needed by the Product Owners and	06/30/2020 - IV&V has observed for another month that the project continues to groom the backlog. As a result, we are closing this finding. 05/31/2020 - The project team has determined the backlog grooming effort has caught up, as details for release 3-9 are completed and 3.10 is near completion. IV&V will keep this finding open for an additional month to validate that the backlog continues to be groomed as new stories and defects are identified. Efforts to keep the backlog groomed should take place each month so that release planning efforts are not delayed. 04/30/2020 - The project reported that 97% of the original backlog has been estimated at this time. That said, CAMHD has determined that there are several older, and possibly no longer necessary user stories in the backlog that are candidates for deletion. IV&V will keep this finding open and will re-assess it for impact during the month of May. 03/31/2020 - IV&V validates that the backlog grooming effort has made great progress, however it is still in progress. The revised target date for completion was most recently	Project Management	Risk	Low	The project has demonstrate d they are consistently grooming the backlog.	D Macdonald

0.000	1/21/2020	The DUA Technical Team bands this	The DIJA Technical Teems where a rela-	The DUA Technical Torres	The Duniest should investigate as a trade-	01/21/2021 Due to internal DOU are	Cariat Dlausina	Dick	Modium	10		D Mandanel il
8.000	1/31/2020	The BHA Technical Team bandwidth may not be sufficient to meet the needs of the	The BHA Technical Team plays a role that is critical to project success.	The BHA Technical Team leads the efforts of all	The Project should investigate mechanisms of increasing the bandwidth of the BHA	01/31/2021 - Due to internal DOH processes, the recruiting announcement for CAMHD's open	Sprint Planning	Risk	Medium	Open		D Macdonald
		project, which could compromise project	Currently, the responsibilities	technical DOH staff on the	Technical Team, either by adding resources	IT Technician position was delayed until						
		productivity.	associated with the BHA Technical Team		through new hires, or vendor contracts.	February. IV&V will continue to monitor this						
		productivity.	have expanded beyond their collective	Team's time is both	The Project should assess, where possible, if	1						
			available bandwidth. IV&V notes that	extremely valuable and	there are responsibilities of the BHA	IV&V notes that the RSM Team continued to						
			BHA began addressing this bandwidth	scarce. If the Team's	Technical Team that can be reassigned to	provide essential support during January,						
			issue, which includes increased		other project staff.	alleviating some of the bandwidth concerns						
			collaboration with key RSM resources,	bandwidth, the project	The Project should evaluate where process	expressed by DOH to meet crucial project needs.						
			and are working to potentially change	could experience	inefficiencies can be addressed and	Due to RSM resource levels being significantly						
			the structure of the Technical Team.	bottlenecks. Optimization	streamlined to possibly free up the BHA	reduced in March, the balance of agile releases						
				of the BHA Technical	Technical Team's availability.	will also be reduced in scope.						
				Team's time is to the	The Project should consider the formation	12/31/2020 - BHA stated that although most						
				benefit of the project and	of a first level M&O resource team to	vacant positions cannot be filled at this time,						
				plays a critical role in the	triage/address production defects in a	they have approval to fill a vacant IT Technician						
				project's ability to hit	timely manner, without disrupting new	position. IV&V will continue to monitor this						
				performance targets and	development work.	finding.						
				achieve the Phase 3	The Project should consider procurement of	11/30/2020 - There were no substantive						
				definition of done.	an online training toolset to support OCM	changes to this finding in November. IV&V will						
					and technical efforts to offset the need for	continue to monitor.						
					in-person training - COMPLETED.	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						
9.000	1/31/2020	The lack of a Product Roadmap that	BHA does not have a single, definitive	A Roadmap is a tool that	IV&V understands that the Project is in the	02/29/2020 - In February, the project further	Project Management	Concern	N/A	Closed	Product	V Ramesh
		provides direction on the top product	Product Roadmap for Phase 3 that	guides an agile project on	process of creating a Short Term; Mid Term,	defined the Phase 3 Product Roadmap and					Roadmap	
		features to be delivered in the near term	addresses the functionalities, features,	what	and Long Term Roadmap. IV&V	aligned it with the Phase 3 Definition of Done.					aligned with	
		(next 3 months), midterm, and long term	and / or enhancements to be built in	functionalities/features are	recommends the Project complete this by	IV&V recommends the project continually					Definition of	
		could have an adverse impact on the	order to fully address BHA's business	targeted to be built and	the end of February 2020 to understand if	review and update both the Product Roadmap					Done	
		Project's scope and schedule.	needs. IV&V met with RSM and BHA on	released and when users	there are any constraints (resources,	and Definition of Done, adjusting as necessary.						
			this topic in January, and notes that the	can have access to these	budget) that may hinder the project from	IV&V will continue to monitor the project's						
			project is actively working to address	functionalities. Without a	releasing the needed	adherence to the Product Roadmap and						
			this concern.	defined Roadmap the	functionalities/features targeted for Phase 3	progress against it but is closing out this concern						
				project may not be able to	as documented in the Definition of Done.	as of the February report.						
				effectively scope the								
				top features to be released				1				
				within Phase 3 and ensure								
				the correct resources are				1				
				available to accomplish the								
				goal of each sprint and the								
				Phase.								

10.000	3/31/2020	The COVID-19 pandemic and the related	On 3/23/2020, the Governor issued a	DOH stakeholder	- IV&V recommends BHA to ramp up efforts	01/31/2021 - No substantive changes were	Project Management	Risk	Medium	Open		D Macdonald
10.000		"stay at home" order could hinder project	"stay at home, work from home order"	participation in key	to setup, train, and assist stakeholders on	observed in January. The project continued to	Project Management	IVISK	ivieululli	Ореп		Diviacuonalu
		activities and negatively impact the project	· · · · · · · · · · · · · · · · · · ·	activities could be	remote work devices and tools and make	maintain its ability to operate with staff working						
		schedule and budget.	ability to be fully functional as the large		every effort to help them to become highly	remotely. As previously reported, key project						
		Scriedule and budget.	majority of state workers will be	only by required remote	functional with remote access technology							
						staff continue to have responsibility for						
			required to work from home/remotely	work by DOH and SI staff,	(e.g. MS	participating in non-project activities to support						
			at least until the end of April and some	but also by the flood of	Teams/Skype) - Completed	the COVID-19 crisis. The HI Governor						
			offices may be completely shut down	activities that could occur	- IV&V recommends the project and DOH	announced in late December that furloughs will						
			until that time as well. Unclear if the	as the department could	create a detailed, documented risk	be delayed due to the potential of the COVID						
			order will extend beyond that date.	become overwhelmed	mitigation strategy and plan that is	Relief bill funding from the federal government.						
				processing and providing	reviewed regularly and revised to address	IV&V continues to note that there may also be						
				services due to the		potential future budget actions by the Governor						
				resulting economic impacts	related impacts over the next 6 to 12	due to projected State budget shortfalls,						
				to citizens. Some	months - In Progress	including furloughs that are planned to be re-						
				stakeholders may be	- IV&V recommends updates to the OCM	evaluated in July. If realized, these actions could						
				unable (due to stricter	Plan to include any new activities or updates	have negative effects on project funding.						
				shutdown policies) or	to planned activities to aid the organization	12/31/2020 - The project continued to maintain						
				unwilling to perform these	through this COVID-19 situation in the short	its ability to operate with staff working						
				activities during this	and long term - Open	remotely. As previously reported, key project						
				chaotic time. Planned SI on	-	staff continue to have increases in participation						
				site visits will also likely be		of non-project activities to support the COVID-						
				changed to remote which		19 crisis. This includes the expedited						
				could reduce the		development of a high priority D365 solution for						
				effectiveness of their		Disease Tracking as well as the planning work						
				project activities. Going		for the expansion of the D365 environment to						
				forward most if not all		additional DOH business units. Aside from the						
				project activities will more		Disease Tracking solution, IV&V notes that the						
11.000	5/31/2020	The lack of design reviews for complex	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	
		user stories has resulted in the promotion	May where the code promoted to	functional design are not	commenced) conducting technical design	additional time on the designs of complex user					change to	
		of 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 stories	experience the inability to	development to ensure designs are	user story components were fully captured in					time on the	
			for CAMHD Progress Notes. The	complete required	complete and all requirements associated	design sessions. This process change has proven					design of	
			components that were developed and	processes, resulting in	with the design are met. IV&V observed this						complex user	
			implemented were functional, however	incomplete data collection	activity has been implemented by DOH in	closing this concern.					stories to	
			the effort was complicated by	and potential issues in	the month of May.	06/30/2020 - IV&V acknowledges the Project					ensure that	
			additional requirements being added	service delivery.		Team continued to spend additional time on the					all	
			during development that necessitated	Sc. vice delivery.		designs of complex user stories during June to					requirement	
			additional changes to the design. IV&V			ensure requirements and user story					s are	
			will continue to monitor the design			components were fully captured in design					represented	
			review activity for large user stories			sessions. IV&V will continue to monitor in July.					has proven	
			moving forward			jsessions. TV & V will continue to monitor in July.					to be	
			Inoving forward									
											successful.	
				1								

40.000 -	7/24/2022	I	I-1	L			I	la: i	1.	-	1.	
12.000 7	7/31/2020	DDD Project staffing shortages may have a		The significance and impact		01/31/2021 - Training design activities using the	Project Management	Risk	Low	Open		D Macdonald
		continued negative effect on user	are hampered based on staffing	of OCM can never be	as possible within its sphere of influence to	interactive training toolset commenced in						
		adoption, training, overall OCM activities.	shortages. DDD has stated that its users	· ·	increase user adoption and training. This	January and has attained good progress. The use						
			have been found to not be utilizing the	best practice that best that	includes procurement of the online training	·						
			system to its fullest extent in terms of	all staff utilize the solution	toolsets to offset the need for in-person	bandwidth relief for DDD staff members						
			system workflow, provide their insights	in the same manner.	training, and adding staff as needed to	responsible for onboarding new staff members						
			and input, follow up, etc. To assist in	Variations in how the	support OCM and technical efforts.	and providers, and to provide refresher training						
			OCM activities, DDD has defined the	system is utilized by its	·	to existing staff members. IV&V will continue to						
			need for an interactive training tool to	users is likely to cause		monitor this finding						
			support Inspire.	variations in data collection	how the system is currently being used by	12/31/2020 - The contract to procure the						
				and analytical efforts using	the user community. Consequently, users	interactive training toolset for onboarding new						
				the data collected.	would be provided with constructive	staff members and providers and to provide						
					feedback on how the system should be	refresher training to existing staff members was						
						successfully executed. Planning for the design of						
					to additional refresher training to close	the necessary training will commence in						
					identified system knowledge gaps.	January. Additionally, DDD has secured a						
						contract for temporary Report Writing services.						
						IV&V will continue to monitor.						
						11/30/2020 - Procurement of the interactive						
						training toolset for onboarding new staff						
						members and providers and to provide						
						refresher training to existing staff members is						
						currently pending RSM agreement of terms and						
						subsequent completion of an MOU. This is						
						expected to be finalized in December. DOH has						
						also posted a procurement request for Report						
						Writing services, and the end date for the						
13.000 8	8/31/2020	PII/PHI data in non-production	IV&V has been made aware that PII/PHI	Failure to secure PII/PHI	IV&V recommends if production data is	01/31/2021 - No substantive changes were	Project Management	Risk	Low	Open		D Macdonald
		environments	data currently exist in a non-production	data leaves the	necessary in any non-production	observed in January. BHA is still in the process						
			environment to meet project needs.		environment that DOH establishes a plan	of establishing a plan for managing PHI/PII data.						
			Generally this is not a good security	targeted social engineering	for effectively managing the security of the	This effort remains anticipated to commence in						
			practice as the presence of PII/PHI data	attacks, heavy regulatory	PII/PHI data, including the potential masking	February, after Release 3.12 is completed. IV&V						
			in non-production environments	fines, and loss of client	of data.	will continue to monitor this finding.						
			increases the potential for theft, loss or	trust and loyalty.	IV&V recommends that DOH mitigates this	12/31/2020 - BHA is still in the process of						
			exposure thus increasing the		finding by removing and/or masking any	establishing a plan for managing PHI/PII data						
			organization's risk. Failure to secure		PHI/PII data in its non-production	and plans to complete this effort in February						
			PII/PHI data leaves the organization		environments.	after Release 3.12. IV&V will continue to						
			open to highly targeted social		NEW - IV&V recommends DOH consider	monitor this finding.						
			engineering attacks, heavy regulatory		limiting the volume of environments and	11/30/2020 - DOH is still in the process of						
			fines, and loss of client trust and loyalty		access necessary to support development	establishing a plan for managing PHI/PII data						
					work, which should help minimize this risk.	and plans to complete this effort in December.						
						Due to the security nature of PHI/PII data, IV&V						
						has escalated this finding from a preliminary						
		1	1	1	1	concern to a low priority risk and will continue	I		1	1		
						concern to a low priority risk and will continue			1			
						to monitor this finding.						
						to monitor this finding.						
						to monitor this finding. 10/31/2020 - DOH is still in process of						
						to monitor this finding. 10/31/2020 - DOH is still in process of establishing a plan for managing PHI/PII data.						
						to monitor this finding. 10/31/2020 - DOH is still in process of establishing a plan for managing PHI/PII data. IV&V will continue to monitor this finding.						
						to monitor this finding. 10/31/2020 - DOH is still in process of establishing a plan for managing PHI/PII data. IV&V will continue to monitor this finding. 09/30/2020 - DOH recognizes this concern and						
						to monitor this finding. 10/31/2020 - DOH is still in process of 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						
						to monitor this finding. 10/31/2020 - DOH is still in process of 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						

44.000	0/24/2022	I	I	L	I	In the table of	I_ ,	Ta: I	1.	T ₌	1	
14.000	8/31/2020	Project not able to access Activity Logs	The Project recently deployed audit log	The unavailability of	IV&V recommends that DHS continues to	01/31/2021 - The implementation effort for this		Risk	Low	Open		D Macdonald
			functionality into production whereby	activity logs may hamper	collaborate with Microsoft until the activity	activity moved forward in January. Some of the	Planning					
			these logs can be accessed and	the investigation of future	logging feature is available in all BHA non-	entities will have activity logging completed in						
			exported as needed. However, IV&V	security breaches.	production environments.	the planned early February Release 3.12, while						
			was made aware access to activity			others will be delayed until Release 3.13. IVV will continue to monitor.						
			logging for users with just view									
			permissions will not be available from			12/31/2020 - The planning effort for identifying						
			Microsoft in the public sector			the entities that will require activation of the						
			environment until the end of			new activity logs was completed during						
			September 2020. The unavailability of			December. The implementation effort has been						
			these specific activity logs could			prioritized for inclusion in Release 3.12. IV&V						
			potentially hamper the investigation of			will continue to monitor this finding until						
			future security events until			implemented.						
			implemented.			11/30/2020 - The DOH technical team has						
						commenced the analytical effort to determine						
						which entities to activate the logging features						
						for, as well as which entities will not require this						
						action. IV&V will continue to monitor this						
						finding until successfully 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.						
						00/20/2020 POU von extend that Microsoft's						
45.000	0/20/2020	2			- 11 19 1 10 1 1	09/30/2020 - DOH reported that Microsoft's		I a a constant	111-1-			
15.000	9/30/2020	Due to multiple quality concerns, the	System defects identified in August that	1 ' '		01/31/2021 - Quality issues persisted in January	Project Management	Issue	High	Open	ľ	D Macdonald
		project may continue to face impactful	affected claims were due to multi-	issues have negatively	continue to pursue and/or consider:	as regression testing and deployments (non-						
		system defects.	faceted quality issues were individually	affected DOH billing	1) Perform revenue neutrality fiscal balance	li .						
			addressed during this reporting period.	processes and DOH has	testing on a quarterly basis to ensure	impacted the planned DDI activities. Root cause						
			IV&V notes that there is one remaining	stated these are the most	revenues are as expected.	analysis (people, process, tools) and immediate						
			defect still being evaluated that affects	impactful defects	2) Performing typical project testing	remediation is highly recommended, as these						
			a limited number of claims. Overall, the	discovered to date.	including System Integration, User	issues are the project's largest and most						
			Project Team has responded with a		Acceptance, Performance, and Regression	impactful. IV&V notes that to improve quality,						
1			commitment to increase project quality		Testing.	DDD is currently performing revenue neutrality						
			and is in the process of identifying		1	testing to validate release changes have not				1		
1			improvements to associated testing		oversight of CAMHD Fiscal Processes.	impacted existing billing functionality. However,						
			processes. These currently include:		4) BHA and RSM to collaborate on the	due to on-going quality issues, IV&V has				1		
			Performing Revenue Neutrality Testing		necessary revisions to the submitted design	promoted this finding to a high critical rating						
			to ensure expected revenue streams are		deliverables to increase level of detail and	and will continue to monitor moving forward.				1		
1			largely unchanged from one period to		quality - Completed	12/31/2020 - BHA recognizes the impact of the						
			the next.		5) Monitor implemented improvements for	1				1		
1			Conducting System Integration Testing,		effectiveness.	meetings with the development and test teams						
	ı	1	User Acceptance Testing, Performance		and experience level to ensure they meet	in order to increase the quality assurance effort						
1	1		Tracking and December Tracking			of each release going forward. This effort has	1	1	1	1		
			Testing, and Regression Testing for									
			Release 3.10.		BHA support requirements.	expanded to more of a team approach to						
			Release 3.10. IV&V will continue to monitor the			expanded to more of a team approach to managing quality for releases and includes						
			Release 3.10. IV&V will continue to monitor the testing efforts throughout the balance			expanded to more of a team approach to managing quality for releases and includes efforts to further develop the quality						
			Release 3.10. IV&V will continue to monitor the testing efforts throughout the balance of Release 3.10 and validate that			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						
			Release 3.10. IV&V will continue to monitor the testing efforts throughout the balance of Release 3.10 and validate that enhanced quality processes, including			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						
			Release 3.10. IV&V will continue to monitor the testing efforts throughout the balance of Release 3.10 and validate that enhanced quality processes, including industry standard regression testing,			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						
			Release 3.10. IV&V will continue to monitor the testing efforts throughout the balance of Release 3.10 and validate that enhanced quality processes, including			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						

16.000	10/5/2020	Usage of Semantics and IDM for	The project noted its intent to obtain		01/31/2021 - The project has made great stric	Tarastad I/T	Concern		Closed	The musices	D Macdonald
16.000	1 1	development and ongoing maintenance of			addressing this concern. A Semantics Layer K	is rargeted Ki	Concern		Ciosea	The project has made	Diviacdonald
		the system requires BHA to take a	both the Semantics Reporting and IDM		session was conducted on 1/29/21 and multip					good	
		proactive approach to support of these	tools. IV&V will continue to monitor this		IDM and Semantic Layer sessions has been					progress	
		tools.	concern.		scheduled in February. IV&V is closing this					establishing	
		10013.	concern.		finding as we no longer view this item as a					and initial	
					concern.					execution of	
					12/31/2020 - IV&V is aware that an overview	f				the IDM and	
					the Semantics Layer KT session was held on					Semantics	
					· · · · · · · · · · · · · · · · · · ·					Layer KT	
					12/16/20. The planning effort will result in additional Semantic Layer and IDM KT session					plan.	
					· · · · · · · · · · · · · · · · · · ·					pian.	
					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, an						
					the second session was focused on Semantic						
					Layer Security. Additional targeted Knowledg						
					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 th						
					Semantics Reporting and IDM tools and will be						
					planning and scheduling these sessions with t	e					
17.000	10/27/2020	The bandwidth of CAMHD Leadership is	CAMHD has been provided with an	CAMDH Leadership	01/31/2021 - The CAMHD Leadership is now	Project Management	Risk	Low	Open		D Macdonald
		being hampered by planning tasks and	approval to commence planning efforts	participation in key	spending upwards of 1/3 of available time in t	e					
		activities for assessing project expansion	for expansion of the project for ADAD	activities could be	planning effort for Phase 4 of the Project, whi	n					
		to other divisions.	and AMHD & HSH. CAMHD Leadership	significantly hindered by	is intended to expand the D365 solution to the						
			currently spends 25% of their available	the flood of activities that	remaining DOH divisions. The level of						
			time dedicated to this planning effort.	could occur as the	dedication to this effort is certain to continue	0					
				department assesses	increase in the coming months.						
				expansion of this project to	12/31/2020 - The planning effort for the						
				the balance of divisions.	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 tha						
					the level of effort will continue to increase in	ne					
					coming months. On the positive side, CAMHD						
					leadership time dedicated to the COVID						
					response decreased during December. IV&V w	ıı İ					
					continue to monitor this concern.	"					
					11/30/2020 - The planning effort for the						
					expansion of the case management solution to	1					
					the other DOH divisions project continued.						
					CAMHD Leadership continues to dedicate						
					· · · · · · · · · · · · · · · · · · ·						
					approximately 25% of available time to this	1					
1		i			planning effort, and it is anticipated that the		1	1	1	1	1
							1				1
					level of effort will likely continue to increase in						
					level of effort will likely continue to increase in the coming months.						

18.000	11/30/2020	Due to consistent to shaired issues	The IDM and Companie laws offers		IV(2) / reserve and the preject to continue	01/21/2020 While most of the Missesoft issues	Dalassa / Danlay was ant	Issue	High	0	In) Macdonald
18.000	11/30/2020	Due to consistent technical issues	The IDM and Semantic layer efforts			01/31/2020 - While most of the Microsoft issues		issue	підіі	Open	ا	iviacdonaid
		requiring escalation to Microsoft, some	have experienced several delays		to monitor the status of outstanding	were fixed, the 'first 10 rows', the 'multi-select	Planning					
		project efforts are being delayed.	attributable to issues escalated to		Microsoft tickets and to escalate the priority							
			Microsoft. The issues have ranged from		of these tickets as deemed necessary.	entity' issues are partially outstanding impacting						
			administrative / communication			project timelines. As temporary measures, the						
			(entering issues into the Commercial			project has developed workarounds. Per BHA,						
			support instance vs the Government			the Product Roadmap for the GCC product						
			Cloud support instance), to several key			continues to lag behind commercial instances						
			technical issues requiring assistance to			which causes uncertainties for the BHA-ITS						
			resolve. To date, these support needs			Project. BHA plans to meet with senior						
			have added over a month to the IDM			Microsoft management to discuss during						
			and Semantic Layer project schedules.			February. IV&V will continue to monitor.						
						12/31/2020 - 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.						
						11/30/2020 - The IDM and Semantic layer						
						affects barra arragion and annual dalaria						
						efforts have experienced several delays						
19.000	12/31/2020	Due to on-going deployment processes	There have been several defects pushed	Repeatable documented	Develop a plan to institutionalize the	01/31/2021 - A planned Mid-Sprint Deployment	Release/Deployment	Issue	High	Open	С) Macdonald
19.000	12/31/2020	Due to on-going deployment processes and technical execution issues, the project	There have been several defects pushed to production with Phase 3 releases.	Repeatable documented release and deployment	Develop a plan to institutionalize the execution of "Smoke Testing" for	,		Issue	High	Open	D	Macdonald
19.000	12/31/2020			1 '	1	01/31/2021 - A planned Mid-Sprint Deployment (MSD) to production was released on 1/15/2021		Issue	High	Open	C) Macdonald
19.000	12/31/2020	and technical execution issues, the project	to production with Phase 3 releases.	release and deployment	execution of "Smoke Testing" for	01/31/2021 - A planned Mid-Sprint Deployment		Issue	High	Open	C) Macdonald
19.000	12/31/2020	and technical execution issues, the project may continue to encounter defects and challenges in meeting projected timelines	to production with Phase 3 releases. Some of the defects introduced to production have been narrowed down	release and deployment will help ensure that mistakes are minimized,	execution of "Smoke Testing" for promotions to non-production and production environments. This will help to	01/31/2021 - A planned Mid-Sprint Deployment (MSD) to production was released on 1/15/2021 to address high priority defects. Post MSD production issues resulted, and existing		Issue	High	Open	C) Macdonald
19.000	12/31/2020	and technical execution issues, the project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	to production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental promotional	release and deployment will help ensure that mistakes are minimized, and that functionality is not	execution of "Smoke Testing" for promotions to non-production and production environments. This will help to ensure that all components needed to test	01/31/2021 - A planned Mid-Sprint Deployment (MSD) to production was released on 1/15/2021 to address high priority defects. Post MSD production issues resulted, and existing functionality was deprecated (e.g., SIS		Issue	High	Open	С) Macdonald
19.000	12/31/2020	and technical execution issues, the project may continue to encounter defects and challenges in meeting projected timelines	to production with Phase 3 releases. Some of the defects introduced to production have been narrowed down	release and deployment will help ensure that mistakes are minimized,	execution of "Smoke Testing" for promotions to non-production and production environments. This will help to	01/31/2021 - A planned Mid-Sprint Deployment (MSD) to production was released on 1/15/2021 to address high priority defects. Post MSD production issues resulted, and existing functionality was deprecated (e.g., SIS assessment scores). Although root cause		Issue	High	Open	C	O Macdonald
19.000	12/31/2020	and technical execution issues, the project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	to production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not in	release and deployment will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated	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.	01/31/2021 - A planned Mid-Sprint Deployment (MSD) to production was released on 1/15/2021 to address high priority defects. Post MSD production issues resulted, and existing functionality was deprecated (e.g., SIS assessment scores). Although root cause analysis is on-going, it is suspected these issues		Issue	High	Open	C	O Macdonald
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19.000	12/31/2020	and technical execution issues, the project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	to production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental 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,	release and deployment will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	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. Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure complete ownership of	01/31/2021 - A planned Mid-Sprint Deployment (MSD) to production was released on 1/15/2021 to address high priority defects. Post MSD production issues resulted, and existing functionality was deprecated (e.g., SIS assessment scores). Although root cause analysis is on-going, it is suspected these issues stem from insufficient deployment and regression testing. DOH has confirmed that at least one needed software component was		Issue	High	Open	С) Macdonald
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19.000	12/31/2020	and technical execution issues, the project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	to production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental 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 aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2 with RSM providing instruction and DOH staff physically executing the tasks and activities via keyboard. For Phase 3, it is unclear whether a complete, up to date,	release and deployment will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take place.	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. 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. As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	01/31/2021 - A planned Mid-Sprint Deployment (MSD) to production was released on 1/15/2021 to address high priority defects. Post MSD production issues resulted, and existing functionality was deprecated (e.g., SIS assessment scores). Although root cause analysis is on-going, it is suspected these issues stem from insufficient deployment and regression testing. DOH has confirmed that at least one needed software component was inadvertently missed from the deployment to production. The inconsistencies within the non-production and production environments continue to contribute to non-production environment testing issues as well as production environment tefects. IV&V has elevated this issue to a high criticality rating for this reporting		Issue	High	Open	С) Macdonald
19.000	12/31/2020	and technical execution issues, the project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	to production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental 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 aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2 with RSM providing instruction and DOH staff physically executing the tasks and activities via keyboard. For Phase 3, it is unclear whether a complete, up to date, and documented deployment script, or	release and deployment will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take place.	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. 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. As appropriate, consult with RSM on best practices that BHA could employ to support deployment. Look at implementing 'hard' code freeze dates as well as test environment	01/31/2021 - A planned Mid-Sprint Deployment (MSD) to production was released on 1/15/2021 to address high priority defects. Post MSD production issues resulted, and existing functionality was deprecated (e.g., SIS assessment scores). Although root cause analysis is on-going, it is suspected these issues stem from insufficient deployment and regression testing. DOH has confirmed that at least one needed software component was inadvertently missed from the deployment to production. The inconsistencies within the non-production and production environments continue to contribute to non-production environment testing issues as well as production environment defects. IV&V has elevated this issue to a high criticality rating for this reporting period as these adverse conditions continue to		Issue	High	Open	С) Macdonald
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