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DOUGLAS MURDOCK CHIEF INFORMATION OFFICER

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August 11, 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

May 1 – May 31, 2021

Final submitted: June 7, 2021



Solutions that Matter

Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





Executive Summary

The Project deployed the delayed Release 3.15 (R3.15) to production on 5/20/21 with several high priority post-production defects. IV&V recommends a full Root Cause Analysis (RCA) for R3.15 be collaboratively executed by RSM and BHA to identify root causes for immediate course correction.

R3.12 Root Cause Analysis (RCA) action plans prioritized in April to improve quality have not been fully implemented. BHA should prioritize and execute these outstanding action plans.

DOH should prioritize and escalate the need for additional qualified senior BHA technical resources to support the existing technical team as this appears to be linked to the on-going quality issues.

IV&V will continue to monitor the high critical findings for sprint planning, release deployment, test practice validation, regression testing, and overall quality and we encourage the Project to consider our recommendations to mitigate risk and avoid the reoccurrence of issues in upcoming planned releases.

Mar	Apr	Мау	Category	IV&V Observations
Y	Y	R	Sprint Planning	The bandwidth of skilled BHA MS Dynamics resources to support the project's technical needs is not adequate, which appears to be comprising project productivity and quality. It is advised that DOH take immediate steps to secure additional technical resources to support the "already stretched" existing BHA team. IV&V is escalating this category to Red (high criticality) for the May reporting period. IV&V will continue to monitor this category moving forward.
G	G	G	User Story (US) Validation	There are no active findings in User Story (US) Validation category which remains Green (low criticality) for the May reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.
R	R	R	Test Practice Validation	The project deployed R3.15 to production in May resulting in several high priority issues. A full R3.15 RCA is recommended to further identify testing deficiencies. BHA planning efforts to develop automated regression test scripts continues to progress. The rating for this category remains Red (high) for the May reporting period. IV&V will continue to monitor this category in upcoming reporting periods.



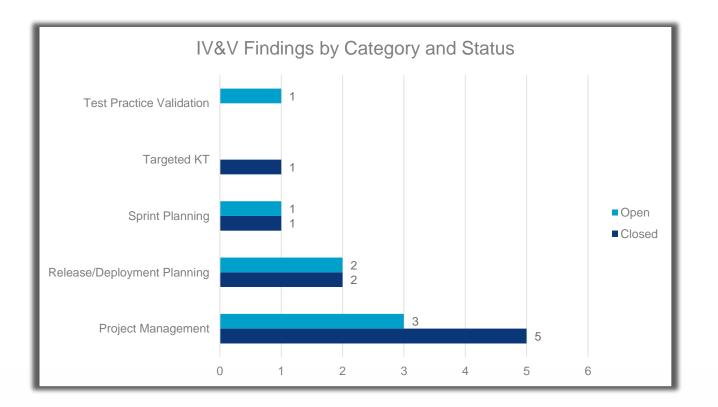
Executive Summary

Mar	Apr	Мау	Category	IV&V Observations	
R	R	R	Release / Deployment Planning	The criticality rating for this category remains Red (high) for the May reporting period. R3.15 was implemented in May resulting in several post-production high priority issues. IV&V continues to be concerned about the current release/deployment procedures and practices. A full R3.15 RCA is recommended to further identify release/deployment deficiencies.	
G	G	G	OJT and KT Sessions	The criticality rating for the OJT and KT Sessions category remains Green (low) for the May reporting period with no active findings.	
G	G	G	Targeted KT	There are no active findings in this category which remains Green (low criticality) for the May reporting period. IV&V will continue to monitor this category moving forward.	
G	G	G	Project Performance Metrics	The Project exceeded its performance metrics for R3.15. 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	IV&V conducted an OMA on May 12, 2021. A subsequent OMA will be planned for late August or early September 2021. The criticality rating for the Organization Maturity Assessment (OMA) category remains Green (low).	
Y	Y	R	Project Management	Quality issues continued to affect the project in May. Technical resource constraints have impacted the execution of essential R3.12 RCA action plans and are viewed as a cause for on-going quality issues. IV&V has escalated the criticality rating for this category to a Red (high) for the May reporting period and will continue to monitor in June.	



Executive Summary

As of the May 2021 reporting period, there are a total of seven open findings – four High Issues, two Medium Issues, and one Low Risk spread across the Sprint Planning, Release / Deployment Planning, Test Practice Validation, 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	Changed from Medium Issue to High Issue - The BHA Technical Team bandwidth may not be adequate to meet the needs of the project, which could compromise project productivity. No substantive changes were noted in May. BHA continued to assume more lead responsibilities in the areas of user story ownership and performing code reviews. However, the bandwidth of BHA senior technical staff trained in the Dynamics environment is not adequate to meet the demands of the project. This technical resource shortage has compromised project productivity and quality whereby team members are focusing on resolving defects rather than delivering planned DDI work, which continues to be pushed to subsequent releases. While RSM is adding resources to support Releases 3.16 and 3.17, so must BHA. This finding is a major concern for IV&V and as a result, we are raising the criticality of this finding from Medium to High in this reporting period.	6
Recon	nmendations	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	

The Project should evaluate where process inefficiencies can be addressed and streamlined to possibly free

In progress

In progress

•

be reassigned to other project staff.

up the BHA Technical Team's availability.

IV&V Findings & Recommendations Sprint Planning (cont'd)

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

IV&V Findings & Recommendations Test Practice Validation

#	Key Findings	Criticality Rating
2	 Change 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. Pre-Production testing efforts are not meeting the needs of the project. While DDD continues to perform a full end-to-end regression test, CAMHD is performing component testing due to self-imposed time constraints. On 5/20/21, the project promoted R3.15 to production. Although three high priority post-production defects were quickly resolved and fixes were promoted to production, several other similar defects/issues occurred, indicating a full impact analysis was likely not performed prior to promotion. As a result, an unplanned mid-sprint deployment is being scheduled to resolve the additional defects/issues. The root cause(s) is unknown at this time but likely tied to ineffective regression testing. On the positive side, BHA and Microsoft are moving forward with the automated regression testing planning. CAMHD has assigned an existing technical resource for this effort and the first two meetings with Microsoft are scheduled for the second week in June. Nevertheless, IV&V is again escalating this finding from Medium criticality back to High criticality as the recurring test issues have not been resolved and are potentially causing the continued instability in BHA's production environment. IV&V will continue to monitor this finding. 	Ð
Recon	nmendations	Status
 IV&V recommends DDD and CAMHD to develop a common and consistent approach across divisions for performing regression testing. 		



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

Recommendations	Status
 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. 	In Progress
 IV&V recommends performing an RCA in collaboration with RSM for the continued concerns with regression testing efforts. 	In Progress
 Determine if current regression testing timeframes are adequate and if not, add more time to the pre- production regression test efforts for all release deployments. 	In Progress
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
 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. 	Completed
 Modifying regression test scripts to start AFTER case creation, limiting the time it takes to execute. (This recommendation was for a point in time and is no longer valid.) 	Completed



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

Recommendations	Status
 Implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testin deployment activities are not rushed. 	ng and Completed
Modifying the deployment scripts based on information gained from previous release deployments.	Completed
• Consulting with RSM to determine how the 'interim testing processes' can be improved until such time the automated testing is available for repeatable and complete industry standard regression testing.	nat Completed

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IV&V Findings & Recommendations Release / Deployment Planning

#	Key Findings	Criticality Rating
19	High Issue - Due to ongoing 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 R3.15 was promoted to production on 5/20/2021. Three high priority defect issues were identified, addressed, and re-promoted to production on 5/21/2021. Since then, several other issues were identified, indicating that a full impact analysis was not performed prior to the re-promotion effort. IV&V notes that code promotion corrective action initiatives resulting from the R3.12 RCA were not implemented prior to the release of R3.15. CAMHD technical staff mentioned that releases and their deployments may increase in quality if the scope of each release were limited to specific areas of the solution. This would potentially reduce the need for 'cherry picking' activities; however, this scope limitation has proven difficult for BHA to implement. Another mid-sprint deployment is being added to the schedule to address the unresolved production defects caused by the R3.15 release. Without substantive course correction, this condition is most likely to continue causing unplanned rework cycles and production issues. IV&V will continue to monitor.	C

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. 	Open



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

Recommendations	Status
 Due to an error prone process of 'cherry picking' what is and what is not ready for deployment, IV&V recommends that DOH and RSM collaborate to determine an improved manner for managing DOH environments. (As a result of how the current development environment is being managed, 'cherry picking' components to deploy will continue to occur. This recommendation is closed.) 	Closed
As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	In Progress
 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
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 an RCA 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. 	In Progress



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

Recommendations	Status
 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
 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

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

#	Key Findings	Criticality Rating
18	Change from High Issue to Medium Issue - Due to consistent technical issues requiring escalation to Microsoft (MS), some project efforts are being delayed. There is only one open Microsoft ticket affecting the attachment of Claims to the Batch. As such, IV&V is reducing the criticality of this finding from High to Medium and will continue to monitor.	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

#	Key Findings	Criticality Rating
15	 High Issue - Due to multiple quality concerns, the Project may continue to face impactful system defects. Quality issues continued to negatively affect the project in May primarily in the areas of regression testing, smoke testing, environment inconsistencies, and code deployments. R3.12 RCA action plans to improve quality have not been fully implemented due to technical resource constraints. This includes adding process steps to existing CAMHD component testing and updates to deployment checklists. Although the BHA investigated adding a paid subscription to Microsoft User groups to their existing non-paid groups, it was determined that this would not help. DEVOPS was updated with RCA tracking information as planned. The project is planning on conducting an RCA for R3.15 which was promoted to production on 5/20/2021 to address post-production defects. IV&V will continue to monitor this finding. 	H
Recon	nmendations	Status
 Dedicate sufficient time in between releases for BHA and RSM to execute/implement RCA correction actions to reduce the volume of unplanned rework. 		New
 Evaluate existing project staff skills and experience level to ensure they meet BHA support requirements. 		Open

• Perform revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected. In Progress



Recommendations	Status
 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
Monitor implemented improvements for effectiveness.	In Progress
 IV&V recommends performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement. 	In Progress
 BHA and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase level of detail and quality. 	Completed



#	Key Findings	Criticality Rating
13	Medium Issue – PII/PHI data in non-production environments. As reported in previous months, there were no substantive changes for this finding in May. Due to resource constraints, establishing a plan for managing PHI/PII data in non-production BHA environments has not yet commenced. Technical staff bandwidth shortages continues to prevent BHA from accomplishing needed new activities to support the Max/Inspire Project. It remains unclear when this important security mitigation activity will be completed.	M
Reco	mmendations	Status
	&V recommends DOH consider limiting the volume of environments and access necessary to support velopment work, which should help minimize this risk.	Open
	&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 minimizing and/or masking PHI/PII data in designated In Progress non-production environments.



#	Key Findings	Criticality Rating
17	Change from Medium Risk to Low Risk - The bandwidth of CAMHD Leadership is being hampered by planning tasks and activities for assessing project expansion to other divisions. As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.	l

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



#	Key Findings	Criticality Rating
20	Closed Preliminary Concern – The pending RSM contract expiration will require BHA to perform transition of the D365 solution to the State prior to contract end. Per CAMHD, the RSM contract amendments to extend the DD&I effort (Mod 5) to the end of December 2021 and also provide M&O services (Mod 6) through May 2022 were fully executed in May. IV&V is closing this preliminary concern.	Closed



#	Key Findings	Criticality Rating
21	Preliminary Concern – The DDD Project Manager will be on leave and unavailable to the project starting in May. The highest priority tasks and activities typically accomplished by the DDD Project Manager have been re-assigned to other DDD staff. IV&V notes that this results in some level of bandwidth/workload challenges for DDD technical staff.	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 	 May - Available velocity was estimated at 60 user story points for R3.15, and a total of 67.5 USPs were promoted to production. IV&V notes that RSM includes USP counts from Mid Sprint Deployments prior to a planned release as component of the planned release. IV&V notes that there were no Mid Sprint Deployments in May. Overall, the cumulative Phase 3 targeted USP's through R3.15 was planned for 1,218. The cumulative completed USP total is currently 1,564.3. 	N/A



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 	 May – R3.15 was comprised of 67.5 USPs that were promoted to production. 76% of the total USPs were associated with planned user stories and requests. 24% of the total USPs were associated with defects either encountered during the release or pulled 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 conducted an OMA on May 12, 2021. A
subsequent OMA will be plan	ned for late August or early September 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	
•	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



Appendix B Inputs

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

Meetings attended during the May 2021 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
- 8. IV&V Draft IV&V Status Review Meeting with RSM and DOH

Eclipse IV&V[®] Base Standards and Checklists

Artifacts reviewed during the May 2021 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	า						
Process Area					2020	-2021				
Process Area	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
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										
				1	r					1
Total Open Findings	7	7	7	10	11	11	10	11	8	8
Issue - high	0	0	0	0	0	0	4	4	4	4
Issue - medium	1	1	2	2	4	4	0	0	0	2
Issue - Iow	0	0	0	0	0	0	0	0	0	0
Risk - high	0	0	0	0	0	0	0	0	0	0
Risk - medium	3	3	3	3	2	2	2	2	4	0
Risk - low	0	0	0	0	3	3	4	4	0	1
Preliminary Concern	3	3	3	5	2	2	0	1	0	1





Solutions that Matter

	Identified Date	Title	Observation	Significance	Recommendation	Updates	Process Area	Finding Type	Priority	Status	Closure Reason	Risk Owner
1.000	12/31/2019	Detailed investigation into the pro	IV&V is currently	While having a high level roadmap is	As much as possible, the project	01/31/2020 - IV&V is closing this concern, and	Sprint Planning	Concern	N/A	Closed	Due to multiple	V Ramesh
			investigating the following	good, the project should be able to	should identify what feature	will be tracking items related to Definition of					new items	
			topics as they relate to	identify what feature enhancements	enhancements will be targeted for	Done, roadmap, resourcing, and backlog					being tracked at	
			Sprint Planning and the	will be targeted for each planned	each Release and should clearly map	grooming in new, separate findings.					a more granular	
			project's overall approach	release. This roadmap will help the	out the roadmap out through the last						level, this item	
			to agile software	project manage scope and productivity.	Phase 3 release in September 2020.						has been	
			development:	Relatedly, the "definition done" is an	Additionally, the project should clearly						closed.	
			- IV&V acknowledges that	important artifact to ensure that the	define "Done" to ensure the project							
			the project is now planning		team is working towards the same goal							
			three sprints outs, however		and increase opportunities for success.							
			it appears that only a "high-		Having a clear "definition of done" will							
			level" sprint planning	scope.	help provide the project with guidance							
			roadmap has been		on how to stay within scope.							
			produced, and it is unclear									
		exactly how the project is targeting features for each release through the end of Mod 4. - IV&V is not aware of how										
			the project is currently									
			defining "done" for Mod 3									
			and Mod 4									
			Additionally, in the January									
			2020 reporting period,									
			IV&V will seek additional									
			information and visibility									
	42/24/2010		into the project's processes	The second contribution of	To address as second as testing, the	05/24/2024 Des Des dustises to sting offerste	Taat Duastias		ut ala	0		D Maada wald
2.000	12/31/2019	As a result of regression testing no	that deprecated features in	Thorough vetting and validation of	To address regression testing, the Project should continue to pursue	05/31/2021 - Pre-Production testing efforts are not meeting the needs of the project.	Test Practice Validation	Issue	High	Open		D Macdonald
				regression test cases is necessary to	and/or consider:		Validation					
			production specific to	prevent both defects and the		While DDD continues to perform a full end-to- end regression test, CAMHD is performing						
			Integrated Support and Life Trajectory functionality.	deprecation of production functionality when a release is pushed live. When	1. Updating the regression test scripts to ensure consistency with system							
			Trajectory functionality.		configuration - Completed	component testing due to self-imposed time constraints.						
			DDD bas informed IV/8-V	defects occur in production the project		constraints.						
			DDD has informed IV&V	defects occur in production, the project		On 5/20/21 the project promoted P2 15 to						
			that there are other	should follow a defined and repeatable	2. Modifying release schedules to	On 5/20/21, the project promoted R3.15 to						
			that there are other examples of functionality	should follow a defined and repeatable process for determining the root cause	2. Modifying release schedules to allow for regression testing	production. Although three high priority post-						
			that there are other examples of functionality being deprecated after a	should follow a defined and repeatable	2. Modifying release schedules to allow for regression testing timeframes - Completed	production. Although three high priority post- production defects were quickly resolved and						
			that there are other examples of functionality being deprecated after a release, some of which are	should follow a defined and repeatable process for determining the root cause	 Modifying release schedules to allow for regression testing timeframes - Completed Grouping releases by functionality 	production. Although three high priority post- production defects were quickly resolved and fixes were promoted to production, several						
			that there are other examples of functionality being deprecated after a release, some of which are still being investigated. As	should follow a defined and repeatable process for determining the root cause	 Modifying release schedules to allow for regression testing timeframes - Completed Grouping releases by functionality type to avoid unnecessary repetitive 	production. Although three high priority post- production defects were quickly resolved and fixes were promoted to production, several other similar defects/issues occurred,						
			that there are other examples of functionality being deprecated after a release, some of which are still being investigated. As of this report, IV&V has not	should follow a defined and repeatable process for determining the root cause of the problem.	 Modifying release schedules to allow for regression testing timeframes - Completed Grouping releases by functionality type to avoid unnecessary repetitive work being performed in any given 	production. Although three high priority post- production defects were quickly resolved and fixes were promoted to production, several other similar defects/issues occurred, indicating a full impact analysis was likely not						
			that there are other examples of functionality being deprecated after a release, some of which are still being investigated. As of this report, IV&V has not evaluated the project's root	should follow a defined and repeatable process for determining the root cause of the problem.	 Modifying release schedules to allow for regression testing timeframes - Completed Grouping releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution - Completed 	production. Although three high priority post- production defects were quickly resolved and fixes were promoted to production, several other similar defects/issues occurred, indicating a full impact analysis was likely not performed prior to promotion. As a result, an						
			that there are other examples of functionality being deprecated after a release, some of which are still being investigated. As of this report, IV&V has not evaluated the project's root cause analysis (RCA)	should follow a defined and repeatable process for determining the root cause of the problem.	 Modifying release schedules to allow for regression testing timeframes - Completed Grouping releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution - Completed Performing regression testing after 	production. Although three high priority post- production defects were quickly resolved and fixes were promoted to production, several other similar defects/issues occurred, indicating a full impact analysis was likely not performed prior to promotion. As a result, an unplanned mid-sprint deployment is being						
			that there are other examples of functionality being deprecated after a release, some of which are still being investigated. As of this report, IV&V has not evaluated the project's root cause analysis (RCA) process used to determine	should follow a defined and repeatable process for determining the root cause of the problem.	 Modifying release schedules to allow for regression testing timeframes - Completed Grouping releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution - Completed Performing regression testing after every release, or possibly every other 	production. Although three high priority post- production defects were quickly resolved and fixes were promoted to production, several other similar defects/issues occurred, indicating a full impact analysis was likely not performed prior to promotion. As a result, an unplanned mid-sprint deployment is being scheduled to resolve the additional						
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			that there are other examples of functionality being deprecated after a release, some of which are still being investigated. As of this report, IV&V has not evaluated the project's root cause analysis (RCA) process used to determine why such functionality was deprecated but will discuss further with BHA in January	should follow a defined and repeatable process for determining the root cause of the problem.	 Modifying release schedules to allow for regression testing timeframes - Completed Grouping releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution - Completed 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 - Completed Modifying regression test scripts to start AFTER case creation, limiting the time it takes to execute - Completed Modifying the deployment scripts 	production. Although three high priority post- production defects were quickly resolved and fixes were promoted to production, several other similar defects/issues occurred, indicating a full impact analysis was likely not performed prior to promotion. As a result, an unplanned mid-sprint deployment is being scheduled to resolve the additional defects/issues. The root cause(s) is unknown at this time but likely tied to ineffective regression testing. On the positive side, BHA and Microsoft are moving forward with the automated regression testing planning. CAMHD has assigned an existing technical resource for this effort and the first two meetings with Microsoft are scheduled for the second week						
			that there are other examples of functionality being deprecated after a release, some of which are still being investigated. As of this report, IV&V has not evaluated the project's root cause analysis (RCA) process used to determine why such functionality was deprecated but will discuss further with BHA in January	should follow a defined and repeatable process for determining the root cause of the problem.	 Modifying release schedules to allow for regression testing timeframes - Completed Grouping releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution - Completed 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 - Completed Modifying regression test scripts to start AFTER case creation, limiting the time it takes to execute - Completed 	production. Although three high priority post- production defects were quickly resolved and fixes were promoted to production, several other similar defects/issues occurred, indicating a full impact analysis was likely not performed prior to promotion. As a result, an unplanned mid-sprint deployment is being scheduled to resolve the additional defects/issues. The root cause(s) is unknown at this time but likely tied to ineffective regression testing. On the positive side, BHA and Microsoft are moving forward with the automated regression testing planning. CAMHD has assigned an existing technical resource for this effort and the first two meetings with						

3.000	12/31/2019	Usage of open source JavaScript fr		Open source tools and frameworks	IV&V recommends BHA work to	08/31/2020 - IV&V is unaware of any	Targeted KT	Risk	Low	Closed		D Macdonald
			2019 that the Calculator 3.0	offer organizations great opportunities	establish a reliable and repeatable	additional KT gaps being identified by DOH,					successfully	
			functionality is built in	to build and configure customized	process for keeping abreast of	and as such, is closing this finding.					held several KT	
			Vue.JS, an open source	solutions at lower costs than through	communal updates and support						sessions for this	
			JavaScript framework. As	software purchase or licensing.	opportunities for a new suite of tools -	07/31/2020 - The Project resolved the					technology and	
			this framework is relatively	However, open source tools and	Completed	majority of the outstanding Calculator 3.0					functionality,	
			new, the open source	frameworks often do not come with	IV&V recommends BHA continue to	defects during July which was implemented in					and DOH staff	
			support community is	support models, other than those	hold targeted KT sessions with RSM on	the mid-sprint release on 7/17/2020. The final					have stated	
				offered through the tool's community.	maintaining Calculator 3.0 via a suite	Calculator 3.0 Knowledge Transfer session was					that it was well	
			include:	Because of this, the organization bears	of tools, and determine what	conducted on 7/17/2020. IV&V recommends					received.	
			- The availability of reliable	the weight of seeking out reliable help	additional skillsets, training, and/or	BHA to identify and communicate any						
			••	and support, as well as much take a	resources are needed to support BHA's	additional KT gaps to RSM during the month of						
			- The project's	proactive approach to security and	long-term ownership of Calculator 3.0 -	August. If no additional needs are identified,						
			understanding of any	identifying any vulnerabilities in the	Completed	IV&V will close this finding.						
			known vulnerabilities with	tools.		06/30/2020 - The project continued to focus						
			Vue.JS, and development of			attention on the Calculator 3.0 defects during						
			a process to remain current			the month of June. RSM conducted another						
			on vulnerabilities			Calculator 3.0 Knowledge Transfer session on						
		discovered	discovered by the support			6/26/2020 and scheduled a final session for						
			community.			7/17/2020.						
			- The RSM lead for									
			Calculator 3.0 went on			05/31/2020 - The project continued to focus						
			extended parental leave in			attention on the Calculator 3.0 user stories						
			December 2019			and defects during the month of May. RSM						
			IV&V acknowledges that			conducted another Calculator 3.0 Knowledge						
			BHA has downloaded			Transfer session on 5/29/2020 which IV&V						
			Vue.JS to start getting			attended. This session included the new C3.0						
.000	1/31/2020	Due to the project not following a	There have been several	A complete, up to date, and	IVV recommends documenting	12/31/2020 - IV&V has closed this issue as the	Release/Deployme	Issue	Medium	Closed	Key finding has	D Macdonald
			defects pushed to	documented deployment script is	deployment scripts for both the patch	related recommendations below has been	nt Planning				been addressed	
			production with Phase 3	needed to ensure the repeatability and	method and the full solution upgrade	completed. A subsequent medium issue					and proposed	
			releases. Some of the	stability of DOH's production	method. The script(s) should be in the	finding (#19) has been opened to address					IV&V	
			defects introduced to	deployments. Since there are currently	form of a step-by-step procedure that	ongoing deployment processes and technical					recommendatio	
			production have been	two deployment types (patches and full	walks through from start to finish of	execution issues.					ns have been	
			narrowed down to	solution upgrades), two scripts may be	the deployment process and involve	11/30/2020 - Release 3.10 was promoted to					completed. A	
			environmental promotional	warranted. An embedded process and	several technical staff to ensure staff	production on 11/11/2020. Approximately					subsequent	
			activities. In these	documented script will help ensure	availability to accomplish these tasks	nine (9) new defects were identified after the					finding #19 has	
			instances, the DEV and TEST	that mistakes are minimized, and that	when primary deployment personnel	deployment. Root causes are suspected to be					been created to	
			environments were not in	functionality is not mistakenly	are unavailable.	a combination of insufficient testing from a					address on-	
			sync with the production	deprecated when deployments take	Standardize the content of all	business perspective coupled with					going	
			environment (missing	place.	developer deployment task notes, with	deployment issues. A bulk record update task					deployment	
			business rules, missing	F	a goal of eliminating any potential	required as part of the implementation was					processes and	
			components, missing		ambiguity to the Deployment Team,	not included in the deployment, resulting in					technical	
			dependencies, etc.). IVV is		resulting in a cleaner and more	contacts being deprecated from the Circle of					execution	
			aware that DOH staff		repeatable set of deployment	Support in Inspire. It is unclear if any other					issues.	
			shadowed RSM staff for all		processes and instructions.	deployment issues may have also contributed					1550251	
			deployment releases during			to the new defects. Deployment corrections						
			Phase 2 with RSM providing			were applied in a mid sprint release on						
			instruction and DOH staff			11/27/2020. Based on the recurrence of this						
			physically executing the			finding, IV&V has changed this Risk to an Issue						
			tasks and activities via			and will continue to monitor until resolved.						
			keyboard. For Phase 3, it is			10/31/2020 - The RSM and DOH Teams have						
			unclear whether a			collaborated to develop a detailed Production						
	1		complete, up to date, and	1	1	Deployment Guide for R3.10 and are in the	1	1	1	1		
			documented deployment			process of rehearsing some of the primary					1 1	

6.000	1/31/2020	The project lacks a documented 'i	D 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	Closed	Definition of Done completed and socialized.	V Ramesh
7.000	1/31/2020	The lack of consistent backlog gro	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.		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 deprecation of 'older' user stories in the backlog that may no longer be applicable or needed	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		Risk	Low		The project has demonstrated they are consistently grooming the backlog.	D Macdonald

8.000	1/31/2020	The BHA Technical Team bandwid	The BHA Technical Team	The BHA Technical Team leads the	The Project should investigate	05/31/2021 - No substantive changes were	Sprint Planning	Issue	High	Open		D Macdonald
	_, _ , ,			efforts of all technical DOH staff on the	mechanisms of increasing the	noted in May. BHA continued to assume more	oprine ridining			open		D macaonala
			l, ,	project. As such, the Team's time is	bandwidth of the BHA Technical Team,	lead responsibilities in the areas of user story						
			the responsibilities	both extremely valuable and scarce. If	either by adding resources through	ownership and performing code reviews.						
				the Team's expected workload exceeds	, , , ,	However, the bandwidth of BHA senior						
				bandwidth, the project could	The Project should assess, where	technical staff trained in the Dynamics						
				experience bottlenecks. Optimization	possible, if there are responsibilities of	environment is not adequate to meet the						
				of the BHA Technical Team's time is to	the BHA Technical Team that can be	demands of the project. This technical						
				the benefit of the project and plays a	reassigned to other project staff.	resource shortage has compromised project						
			BHA began addressing this	critical role in the project's ability to hit	The Project should evaluate where	productivity and guality whereby team						
				performance targets and achieve the	process inefficiencies can be	members are focusing on resolving defects						
				Phase 3 definition of done.	addressed and streamlined to possibly	rather than delivering planned DDI work,						
			collaboration with key RSM		free up the BHA Technical Team's	which continues to be pushed to subsequent						
			resources, and are working		availability.	releases.						
			to potentially change the		The Project should consider the	While RSM is adding resources to support						
			structure of the Technical		formation of a first level M&O	Releases 3.16 and 3.17, so must BHA. This						
			Team.		resource team to triage/address	finding is a major concern for IV&V and as a						
					production defects in a timely manner,	result, we are raising the criticality of this						
					without disrupting new development	finding from Medium to High in this reporting						
					work.	period.						
					The Project should consider	04/30/2021 - As planned, BHA continued to						
					procurement of an online training	take on more lead responsibilities in the areas						
					toolset to support OCM and technical	of user story ownership and performing code						
					efforts to offset the need for in-person	reviews during the month of April. CAMHD						
					training - COMPLETED.	was notified that their open IT Technical						
						position is on a temporary freeze. IV&V has						
						elevated this finding from a medium risk to a						
9.000	1/31/2020	The lack of a Product Roadmap the	BHA does not have a single,	A Roadmap is a tool that guides an	IV&V understands that the Project is in	02/29/2020 - In February, the project further	Project	Concern	N/A	Closed	Product	V Ramesh
			definitive Product Roadmap	agile project on what	the process of creating a Short Term;	defined the Phase 3 Product Roadmap and	Management				Roadmap	
			for Phase 3 that addresses	functionalities/features are targeted to	Mid Term, and Long Term Roadmap.	aligned it with the Phase 3 Definition of Done.					aligned with	
			the functionalities,	be built and released and when users	IV&V recommends the Project	IV&V recommends the project continually					Definition of	
			features, and / or	can have access to these	complete this by the end of February	review and update both the Product Roadmap					Done	
			enhancements to be built in	functionalities. Without a defined	2020 to understand if there are any	and Definition of Done, adjusting as necessary.						
			order to fully address BHA's	Roadmap the project may not be able	constraints (resources, budget) that	IV&V will continue to monitor the project's						
			business needs. IV&V met	to effectively scope the top features to	may hinder the project from releasing	adherence to the Product Roadmap and						
			with RSM and BHA on this	be released within Phase 3 and ensure	the needed functionalities/features	progress against it but is closing out this						
			topic in January, and notes	the correct resources are available to	targeted for Phase 3 as documented in	concern as of the February report.						
			that the project is actively	accomplish the goal of each sprint and	the Definition of Done.							1
			working to address this	the Phase.								
			concern.									1

10.000	3/31/2020	The COVID-19 pandemic and the r	On 3/23/2020, the	DOH stakeholder participation in key	- IV&V recommends BHA to ramp up	04/30/2021 - The Project continues to	Project	Risk	Low	Closed	The Project	D Macdonald
			Governor issued a "stay at	activities could be significantly	efforts to setup, train, and assist	maintain its ability to operate with staff	Management				continues to	
			home, work from home	- ·	stakeholders on remote work devices	working remotely, effectively overcoming the	0				maintain its	
			order" that has reduced	work by DOH and SI staff, but also by	and tools and make every effort to	"stay at home, work from home order" that					ability to	
				the flood of activities that could occur	help them to become highly functional	reduced BHA's ability to be fully functional in					operate with	
			be fully functional as the	as the department could become	with remote access technology (e.g.	the office. The potential DDD and CAMHD					staff working	
			large majority of state	overwhelmed processing and providing		budget challenges reported in March were					remotely,	
			workers will be required to	services due to the resulting economic		also overcome during April, providing fiscal					effectively	
			work from home/remotely	impacts to citizens. Some stakeholders	- IV&V recommends the project and	relief to BHA. As such, IV&V is closing this					overcoming the	
			at least until the end of		DOH create a detailed, documented	finding.					"stay at home,	
			April and some offices may	, .	risk mitigation strategy and plan that is	03/31/2021 - The Project continued to					work from	
			be completely shut down	perform these activities during this	reviewed regularly and revised to	maintain its ability to operate with staff					home order"	
			until that time as well.	chaotic time. Planned SI on-site visits	address the current state of the COVID-	working remotely, while COVID-related					that reduced	
			Unclear if the order will	will also likely be changed to remote	19 threat and related impacts over the	responsibilities continue to grow for CAMHD					BHA's ability to	
			extend beyond that date.	which could reduce the effectiveness of	next 6 to 12 months - In Progress	Leadership. The Governor announced that					be fully	
				their project activities. Going forward	- IV&V recommends updates to the	potential furloughs and/or layoffs of State					functional in	
					OCM Plan to include any new activities	workers will no longer be necessary based on					the office. The	
					or updates to planned activities to aid	the signing of the American Rescue Plan. IV&V					potential DDD	
					the organization through this COVID-	has reduced the priority of this finding from					and CAMHD	
					19 situation in the short and long term	Medium to Low and will continue to monitor					budget	
					Open	moving forward.					challenges	
						02/28/2021 - As reported in January, there					reported in	
						were no substantive changes observed for this					March were	
						finding in February. The Project continued to					also overcome	
						maintain its ability to operate with staff					during April,	
						working remotely. IV&V continues to note that					providing fiscal	
						there may be potential future budget actions					relief to BHA.	
11.000	5/31/2020	The lack of design reviews for com	There were a couple	If all requirements within a functional	IV&V recommends (and DOH has	07/31/2020 - The Project continues to to		Concern		Closed	This process	
			incidents during May where	design are not met, users could	commenced) conducting technical	spend additional time on the designs of					change to	
			the code promoted to	experience the inability to complete	design reviews for complex user	complex user stories during June to ensure					spend extra	
			production did not fully	required processes, resulting in	stories prior to development to ensure	requirements and user story components					time on the	
			meet all requirements of	incomplete data collection and	designs are complete and all	were fully captured in design sessions. This					design of	
1			meet all requirements of associated user stories for		designs are complete and all requirements associated with the	were fully captured in design sessions. This process change has proven successful, and as					design of complex user	
			· ·	incomplete data collection and							-	
			associated user stories for	incomplete data collection and	requirements associated with the design are met. IV&V observed this	process change has proven successful, and as					complex user	
			associated user stories for CAMHD Progress Notes.	incomplete data collection and	requirements associated with the design are met. IV&V observed this	process change has proven successful, and as such, IV&V recommends closing this concern.					complex user stories to	
			associated user stories for CAMHD Progress Notes. The components that were	incomplete data collection and	requirements associated with the design are met. IV&V observed this activity has been implemented by DOH	process change has proven successful, and as such, IV&V recommends closing this concern. 06/30/2020 - IV&V acknowledges the Project					complex user stories to ensure that all	
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12.000	7/31/2020	DDD Project resource shortages m	The user adoption and	The significance and impact of OCM	IV&V recommends that BHA does as	03/31/2021 - The DDD staff who've been part	Project	Risk	Low	Closed	The DDD staff	D Macdonald
			training efforts are	can never be understated. It is clearly a	much as possible within its sphere of	of the review process are pleased with the	Management				who've been	
			0	best practice that best that all staff	influence to increase user adoption	quality of the videos produced within the	0				part of the	
			shortages. DDD has stated	utilize the solution in the same manner.		toolset and have determined that the toolset					review process	
			that its users have been	Variations in how the system is utilized	-	is a very helpful training tool for DDD staff and					are pleased	
		f	found to not be utilizing the	by its users is likely to cause variations	toolsets to offset the need for in-	providers. As such, IV&V is closing this					with the quality	
			system to its fullest extent	in data collection and analytical efforts	person training, and adding staff as	finding.					of the videos	
		i	in terms of system	using the data collected.	needed to support OCM and technical	02/28/2021 - Training videos using the new					produced	
			workflow, provide their		efforts.	toolset were nearing completion by the end of					within the	
			insights and input, follow		IV&V recommends DOH perform a	February. DOH is currently reviewing the					toolset, and	
			up, etc. To assist in OCM		detailed investigation of the specific	drafts of the second set of videos and work is					have	
		1	activities, DDD has defined		variations as to how the system is	progressing well. IV&V will continue to					determined	
		t	the need for an interactive		currently being used by the user	monitor this finding until DDD has had					that the toolset	
		t	training tool to support		community. Consequently, users	sufficient time to determine the overall quality					is a very helpful	
			Inspire.		would be provided with constructive	of the training work products and whether the					training tool for	
					feedback on how the system should be	new toolset is addressing user adoption and					DDD staff and	
					utilized where gaps exist. This will	staffing shortages for these task efforts.					providers.	
					likely lead to additional refresher	01/31/2021 - Training design activities using						
					training to close identified system	the interactive training toolset commenced in						
					knowledge gaps.	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						
						12/31/2020 - The contract to procure the						
3.000	8/31/2020	PII/PHI data in non-production envi	IV/8V bac been made aware	Failura ta sasura DIL/DLU data lasusa tha	IV&V recommends if production data		Project	Issue	Medium	Open		D Macdonald
				-		05/31/2021 - As reported in previous months,	•	issue	Wiedluin	Open		
		t	that PII/PHI data currently	organization open to highly targeted	is necessary in any non-production	there were no substantive changes for this	Management	issue	Wedduni	Open		
		t		-			•	issue	Medium	Open		Diviacuoriaiu
		t e	that PII/PHI data currently exist in a non-production environment to meet	organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of client trust	is necessary in any non-production environment that DOH establishes a plan for effectively managing the	there were no substantive changes for this finding in May. Due to resource constraints, establishing a plan for managing PHI/PII data	•	15500	Wedum	Орен		Diviacuonaiu
		t e	that PII/PHI data currently exist in a non-production	organization open to highly targeted social engineering attacks, heavy	is necessary in any non-production environment that DOH establishes a	there were no substantive changes for this finding in May. Due to resource constraints,	•	issue	Weatan	Open		
		t e F	that PII/PHI data currently exist in a non-production environment to meet project needs. Generally this is not a good security	organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of client trust	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.	there were no substantive changes for this finding in May. Due to resource constraints, establishing a plan for managing PHI/PII data	•	issue	Weddin	Open		
		t e f t	that PII/PHI data currently exist in a non-production environment to meet project needs. Generally this is not a good security practice as the presence of	organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of client trust	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. IV&V recommends that DOH mitigates	there were no substantive changes for this finding in May. Due to resource constraints, establishing a plan for managing PHI/PII data in non-production BHA environments has not	•	Issue	Weddin	Upen		Diviacuonalu
		t e f t	that PII/PHI data currently exist in a non-production environment to meet project needs. Generally this is not a good security	organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of client trust	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. IV&V recommends that DOH mitigates this finding by removing and/or	there were no substantive changes for this finding in May. Due to resource constraints, establishing a plan for managing PHI/PII data in non-production BHA environments has not yet commenced. Technical staff bandwidth	•	Issue		Open		
		t e f t f	that PII/PHI data currently exist in a non-production environment to meet project needs. Generally this is not a good security practice as the presence of	organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of client trust	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. IV&V recommends that DOH mitigates	there were no substantive changes for this finding in May. Due to resource constraints, establishing a plan for managing PHI/PII data in non-production BHA environments has not yet commenced. Technical staff bandwidth shortages continues to prevent BHA from	•	ISSUE		upen		
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14.000	8/31/2020	Project not able to access Activity	The Project recently	The unavailability of activity logs may	IV&V recommends that DHS continues	03/31/2021 - Per BHA, this finding is no longer	Release/Deployme	Risk	Low	Closed	Finding has	D Macdonald
			deployed audit log	hamper the investigation of future	to collaborate with Microsoft until the	an issue and recommends closure. IV&V is	nt Planning				been resolved.	
			functionality into	security breaches.	activity logging feature is available in	closing this finding.						
			production whereby these		all BHA non-production environments.	02/28/2021 - BHA continued this effort in						
			logs can be accessed and			February despite a workaround being						
			exported as needed.			necessary from Microsoft due to a layering						
			However, IV&V was made			issue. Based on continued delays, it is unclear						
			aware access to activity			when this important security activity will be						
			logging for users with just			completed. IV&V will continue to monitor this						
			view permissions will not			finding. (Per Kamu, this status information did						
			be available from Microsoft			not correctly reflect the issue as the layering						
			in the public sector			issue has no relation to the activity logs.)						
			environment until the end			01/31/2021 - The implementation effort for						
			of September 2020. The			this activity moved forward in January. Some						
			unavailability of these			of the entities will have activity logging						
			specific activity logs could			completed in the planned early February						
			potentially hamper the			Release 3.12, while others will be delayed						
			investigation of future			until Release 3.13. IVV will continue to						
			security events until			monitor.						
			implemented.			12/31/2020 - 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.						
						11/30/2020 - The DOH technical team has						
15.000	9/30/2020	Due to multiple quality concerns,		The identified quality issues have	To address quality issues, the Project	05/31/2021 - Quality issues continued to	Project	Issue	High	Open		D Macdonald
			August that affected claims	negatively affected DOH billing	should continue to pursue and/or		Management					
			were due to multi-faceted	processes and DOH has stated these	consider:	in the areas of regression testing, smoke						
			quality issues were	are the most impactful defects	1) Perform revenue neutrality fiscal	testing, environment inconsistencies, and						
			individually addressed	discovered to date.	balance testing on a quarterly basis to	code deployments. R3.12 RCA action plans to						
			during this reporting		ensure revenues are as expected.	improve quality have not been fully						
			period. IV&V notes that		2) Performing typical project testing	implemented due to technical resource						
			period. IV&V notes that there is one remaining		2) Performing typical project testing including System Integration, User	implemented due to technical resource constraints. This includes adding process steps						
			period. IV&V notes that there is one remaining defect still being evaluated		2) Performing typical project testing including System Integration, User Acceptance, Performance, and	implemented due to technical resource constraints. This includes adding process steps to existing CAMHD component testing and						
			period. IV&V notes that there is one remaining defect still being evaluated that affects a limited		2) Performing typical project testing including System Integration, User Acceptance, Performance, and Regression Testing.	implemented due to technical resource constraints. This includes adding process steps to existing CAMHD component testing and updates to deployment checklists. Although						
			period. IV&V notes that there is one remaining defect still being evaluated that affects a limited number of claims. Overall,		 Performing typical project testing including System Integration, User Acceptance, Performance, and Regression Testing. Assigning a dedicated resource to 	implemented due to technical resource constraints. This includes adding process steps to existing CAMHD component testing and updates to deployment checklists. Although the BHA investigated adding a paid						
			period. IV&V notes that there is one remaining defect still being evaluated that affects a limited number of claims. Overall, the Project Team has		 Performing typical project testing including System Integration, User Acceptance, Performance, and Regression Testing. Assigning a dedicated resource to provide oversight of CAMHD Fiscal 	implemented due to technical resource constraints. This includes adding process steps to existing CAMHD component testing and updates to deployment checklists. Although the BHA investigated adding a paid subscription to Microsoft User groups to their						
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	10/5/2020	Usage of Semantics and IDM for de	The project noted its intent			01/31/2021 - The project has made great	Targeted KT	Concern		Closed	The project has	D Macdonald
16.000	10/ 5/ 2020	losage of Semantics and Divitor u	to obtain more targeted			strides addressing this concern. A Semantics	Taigeteu Ki	Concern		Closed	made good	Diviacuonalu
			knowledge transfer of both			Layer KT session was conducted on 1/29/21					progress	
			the Semantics Reporting			and multiple IDM and Semantic Layer sessions					establishing	
			and IDM tools. IV&V will			has been scheduled in February. IV&V is					and initial	
			continue to monitor this			closing this finding as we no longer view this					execution of	
			concern.			item as a concern.					the IDM and	
			concern.			12/31/2020 - IV&V is aware that an overview					Semantics Layer	
						of the Semantics Layer KT session was held on					KT plan.	
						12/16/20. The planning effort will result in					Ki pian.	
						additional Semantic Layer and IDM KT sessions 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						
7.000	10/27/2020	The bandwidth of CAMHD Leaders		CAMDH Leadership participation in key		05/31/2021 - As anticipated, CAMHD	Project	Risk	Low	Open		D Macdonald
			with an approval to									
				activities could be significantly	opportunities to augment the	Leadership time spent on efforts outside of	Management					
			commence planning efforts	hindered by the flood of activities that	management staffing for planning	the Inspire Project reduced during May. This	Management					
			commence planning efforts for expansion of the project	hindered by the flood of activities that could occur as the department assesses	management staffing for planning Phase 4 and M&O work.	the Inspire Project reduced during May. This level of effort decreased to approximately 10%	Management					
			commence planning efforts for expansion of the project for ADAD and AMHD &	hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance	management staffing for planning Phase 4 and M&O work.	the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the	Management					
			commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership	hindered by the flood of activities that could occur as the department assesses	management staffing for planning Phase 4 and M&O work.	the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional	Management					
			commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of	hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance	management staffing for planning Phase 4 and M&O work.	the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing	Management					
			commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time	hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance	management staffing for planning Phase 4 and M&O work.	the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to	Management					
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			commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance	management staffing for planning Phase 4 and M&O work.	the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as DOH has hired a Project Manager in April who will be dedicated to the Vaccine Registration Project, instead of BHA resources IV&V will continue to monitor	Management					
			commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance	management staffing for planning Phase 4 and M&O work.	the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as DOH has hired a Project Manager in April who will be dedicated to the Vaccine Registration Project, instead of BHA resources IV&V will continue to monitor this finding.	Management					
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18.000	11/30/2020	Due to consistent technical issues The IDM and Semanti	layer	IV&V recommends the project to	05/31/2021 - There is only one open Microsoft	Release/Deployme	Issue	Medium	Open	D Macdonald
		efforts have experience	ed	continue to monitor the status of	ticket affecting the attachment of Claims to	nt Planning				
		several delays attribut	able	outstanding Microsoft tickets and to	the Batch. As such, IV&V is reducing the	-				
		to issues escalated to		escalate the priority of these tickets as	criticality of this finding from High to Medium					
		Microsoft. The issues	have	deemed necessary.	and will continue to monitor.					
		ranged from administ	rative		04/30/2021 - BHA continues to work with					
		/ communication (ent	ering		Microsoft on technical issues as they arise in					
		issues into the Comme	ercial		the Government Community Cloud (GCC)					
		support instance vs th	e		instance. The issue with fields being locked					
		Government Cloud su	pport		has been resolved, however, a new MS ticket					
		instance), to several k	ey		was opened to address workflows and					
		technical issues requir	ing		business rules being disabled after a solution					
		assistance to resolve.	То		upgrade was applied. This issue has put a halt					
		date, these support ne	eeds		to all solution aware CRM development and					
		have added over a mo	nth to		code promotion work. This issue has delayed					
		the IDM and Semantic	Layer		the R3.15 production release by at least a					
		project schedules.			week. IV&V will continue to monitor this					
					finding.					
					03/31/2021 - BHA continues to work with					
					Microsoft on technical issues as they arise in					
					the Government Community Cloud (GCC)					
					instance. The issue with fields being locked is					
					still outstanding. IV&V will continue to					
					monitor this finding.					
					02/28/2021 - BHA continues to work with					
					Microsoft on technical issues as they arise in					
					the Government Community Cloud (GCC)					
19.000	12/31/2020	Due to on-going deployment proce There have been seve	ral Repeatable documented release and	Develop a plan to institutionalize the	05/31/2021 - Release R3.15 was promoted to	Release/Deployme	Issue	High	Open	D Macdonald
		defects pushed to	deployment will help ensure that	execution of "Smoke Testing" for	production on 5/20/2021. Three high priority	nt Planning				
		production with Phase	e 3 mistakes are minimized, and that	promotions to non-production and	defect issues were identified, addressed, and					
		releases. Some of the	functionality is not mistakenly	production environments. This will	re-promoted to production on 5/21/2021.					
		defects introduced to	deprecated when deployments take	help to ensure that all components	Since then, several other issues were					
		production have been	place.	needed to test have been properly	identified, indicating that a full impact analysis					
		narrowed down to		deployed prior to the actual execution	was not performed prior to the re-promotion					
		environmental promo	tional	of test activities.	effort. IV&V notes that code promotion					
		activities. In these		Work in collaboration with RSM to	corrective action initiatives resulting from the					
		instances, the DEV and		establish a plan for DOH to assume all	R3.12 RCA were not implemented prior to the					
		environments were no	otin	deployment activities to ensure	release of R3.15. CAMHD technical staff					
	1						1	1	1	
		sync with the product		complete ownership of these	mentioned that releases and their				1 1	
		environment (missing		processes. This should assist with	deployments may increase in quality if the					
		environment (missing business rules, missing		processes. This should assist with consistency in approach and execution	deployments may increase in quality if the scope of each release were limited to specific					
		environment (missing business rules, missing components, missing	3	processes. This should assist with consistency in approach and execution going forward.	deployments may increase in quality if the scope of each release were limited to specific areas of the solution. This would potentially					
		environment (missing business rules, missing components, missing dependencies, etc.). IV	3	processes. This should assist with consistency in approach and execution going forward. As appropriate, consult with RSM on	deployments may increase in quality if the scope of each release were limited to specific areas of the solution. This would potentially reduce the need for 'cherry picking' activities;					
		environment (missing business rules, missing components, missing dependencies, etc.). IV aware that DOH staff	3 N is	processes. This should assist with consistency in approach and execution going forward. As appropriate, consult with RSM on best practices that BHA could employ	deployments may increase in quality if the scope of each release were limited to specific areas of the solution. This would potentially reduce the need for 'cherry picking' activities; however, this scope limitation has proven					
		environment (missing business rules, missing components, missing dependencies, etc.). IV aware that DOH staff shadowed RSM staff f	g /V is or all	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.	deployments may increase in quality if the scope of each release were limited to specific areas of the solution. This would potentially reduce the need for 'cherry picking' activities; however, this scope limitation has proven difficult for BHA to implement. Another mid-					
		environment (missing business rules, missing components, missing dependencies, etc.). IV aware that DOH staff	g /V is or all	processes. This should assist with consistency in approach and execution going forward. As appropriate, consult with RSM on best practices that BHA could employ	deployments may increase in quality if the scope of each release were limited to specific areas of the solution. This would potentially reduce the need for 'cherry picking' activities; however, this scope limitation has proven					
		environment (missing business rules, missing components, missing dependencies, etc.). I aware that DOH staff shadowed RSM staff f deployment releases (Phase 2 with RSM pro	g /V is or all Juring viding	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	deployments may increase in quality if the scope of each release were limited to specific areas of the solution. This would potentially reduce the need for 'cherry picking' activities; however, this scope limitation has proven difficult for BHA to implement. Another mid- sprint deployment is being added to the schedule to address the unresolved					
		environment (missing business rules, missing components, missing dependencies, etc.). I aware that DOH staff shadowed RSM staff f deployment releases o Phase 2 with RSM pro instruction and DOH s	3 /V is or all Juring viding taff	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 deployment dates to	deployments may increase in quality if the scope of each release were limited to specific areas of the solution. This would potentially reduce the need for 'cherry picking' activities; however, this scope limitation has proven difficult for BHA to implement. Another mid- sprint deployment is being added to the schedule to address the unresolved production defects caused by the R3.15					
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20.000	3/28/2021	3 is currently planned to complete in September 2021. BHA will need a transition plan to ensure that it has all knowledge	DOH needs to be in a position to completely stand on its own without the assistance of vendor support by fall of 2021. If DOH is not in a position to solely take on the development of user stories, testing, regression testing, deployment, and the support and maintenance of the entire system, there is a risk that environment stability may be challenged.	that DOH has the knowledge, skills,	05/31/2021 - Per CAMHD, the RSM contract amendments to extend the DD&I effort (Mod 5) to the end of December 2021 and also provide M&O services (Mod 6) through May 2022 were fully executed in May. IV&V is closing this preliminary concern. 04/30/2021 - The RSM contract amendment is still pending approval. This amendment will extend the DD&I effort (Mod 5) to the end of December 2021 and will also provide M&O services (Mod 6) through May 2022. Mod 5 is expected to be approved in May 2021. This will delay the near-term need for a Transition Plan until first quarter 2022. IV&V will continue to monitor this finding.	Project Management	Concern	Closed	The RSM amendments were fully executed in May 2021.	Vic Dudoit
21.000	4/30/2021	performs most of the project duties on behalf of DDD and her absence may cause an increased level of	The DDD Project Manager is critical to all daily project interactions affecting DDD from a functional and managerial perspective. If her duties are not re- assigned to capable staff prior to her planned absence, DDD will be in a challenged position to effectively contribute to at least the next several releases.	Ensure that the highest priority items are re-assigned to other staff within DDD prior to the DDD PM's planned absence, considering their existing workload and other assignments.	05/31/2021 - The highest priority tasks and activities typically accomplished by the DDD Project Manager have been re-assigned to other DDD staff. IV&V notes that this results in some level of bandwidth/workload challenges for DDD technical staff.	Project Management	Concern	Open		Darren