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May 7, 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

March 1 – March 31, 2021

Final submitted: April 12, 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 Release 3.13 (R3.13) to production on 3/14/2021. A Root Cause Analysis (RCA) was performed in March to address defects from the previous release. As a result, root causes were identified in the areas of coding, deployment, design, vendor (Microsoft) issues, and requirements. The project identified specific action plans to improve in these areas and will be prioritizing them for execution in April.

Work for R3.14 is wrapping-up in preparation for the upcoming production release starting on 4/9/21.

IV&V continues to monitor high criticality findings for release deployment, regression testing, quality, and Microsoft Issues. We encourage the Project to consider our recommendations to mitigate risk and avoid the reoccurrence of issues in upcoming planned releases.

Jan	Feb	Mar	Category	IV&V Observations
Y	Y Y Blanning open IT Technician position are still pending. The rating for this category remains Ye		permanently support BHA's technical needs. CAMHD's recruitment activities for their open IT Technician position are still pending. The rating for this category remains Yellow (medium criticality) for the March reporting period. IV&V will continue to monitor this	
G			There are no active findings in User Story (US) Validation category which remains Green (low criticality) for the March reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.	
			Test Practice	The project deployed R3.13 to production in March. The Project performed an RCA and identified specific action plans to address issues with testing.
R	R	R	Validation	BHA planning efforts to develop automated regression test scripts is on-going. The rating for this category remains Red (high) for the March reporting period. IV&V will continue to monitor this category in upcoming reporting periods.



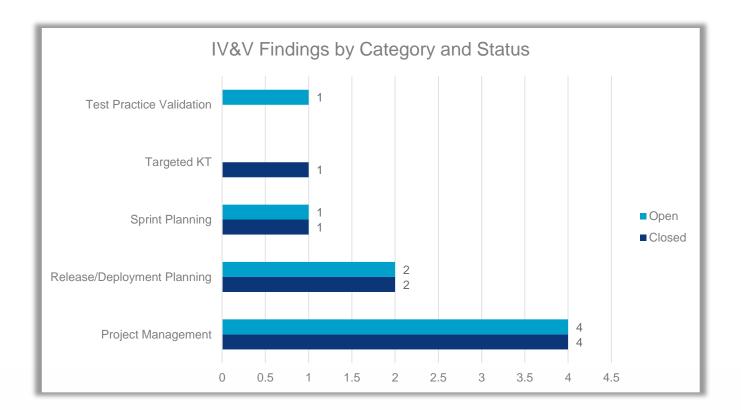
## **Executive Summary**

Jan	Feb	Mar	Category	IV&V Observations
R	R	R	Release / Deployment Planning	The criticality rating for this category remains Red (high) for the March reporting period. RCA efforts identified specific actions to improve deployment that are currently being prioritized for execution. IV&V will continue to monitor this category in April.
G	G	G	OJT and KT Sessions	The criticality rating for the OJT and KT Sessions category remains Green (low) for the March reporting period with no active findings.
G	G	G	Targeted KT	The Targeted KT criticality rating remains Green (low) for the March reporting period. The RSM Team developed system documentation in March for both IDM and Semantics Reporting that will be finalized in April. KT sessions on Semantics Reporting and IDM tools were also conducted in March. IV&V will continue to monitor this category moving forward.
G	G	G	Project Performance Metrics	The Project exceeded its performance metrics for R3.13. IV&V will keep the criticality rating for this category a Green (low) and will continue to monitor this category moving forward.
G	G	G	Organizational Maturity Assessment	The criticality rating for the Organization Maturity Assessment (OMA) will remain Green (Iow). Planning efforts for the next OMA (in May) are currently in progress.
Y	Y	Y	Project Management	Quality issues that impact DDI activities continue to be an IV&V concern. The Project has conducted a formal RCA based upon R3.12 defects. Several root causes were identified, and corresponding action plans were developed to improve overall quality. BHA Leadership bandwidth also remains a concern for IV&V. The criticality rating for this category remains Yellow (medium) for the March reporting period. IV&V will continue to monitor this category in April.



## **Executive Summary**

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





# **IV&V** Findings & Recommendations

#### IV&V Findings & Recommendations Assessment Categories

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

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

### IV&V Findings & Recommendations Sprint Planning

#	Key Findings	Criticality Rating
8	Medium Risk - The BHA Technical Team bandwidth may not be adequate to meet the needs of the project, which could compromise project productivity. BHA continued to take on more lead responsibilities in the areas of user story ownership and performing code reviews during the month of March. CAMHD is hopeful their open IT Technical position will be posted in April. IV&V will continue to monitor this finding.	M
Recor	nmendations	Status
	Project should investigate mechanisms of increasing the bandwidth of the BHA Technical Team, either by ling resources through new hires, or vendor contracts.	In progress
	Project should assess, where possible, if there are responsibilities of the BHA Technical Team that can reassigned to other project staff.	In progress
	Project should evaluate where process inefficiencies can be addressed and streamlined to possibly free the BHA Technical Team's availability.	In progress
	Project should consider the formation of a first level M&O resource team to triage/address production ects in a timely manner, without disrupting new development work.	In progress
	e Project should consider procurement of an online training toolset to support OCM and technical efforts to et the need for in-person training.	Completed



#### IV&V Findings & Recommendations Test Practice Validation

#	Key Findings	Criticality Rating
2	<ul> <li>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.</li> <li>R3.13 was promoted to production on 3/14/2021. The Root Cause Analysis (RCA) effort from R3.12 was completed in March resulting in several recommendations for increasing the quality of Testing. The corresponding RCA Action Plans were expected to be finalized and prioritized by the end of March; however, this has not been completed and the prioritization will be pushed to April. Several of the identified actions will be potentially easy to implement.</li> <li>The BHA Team continued to work with Microsoft during March to plan the level of effort and associated staffing needed to implement automated regression testing using MS DEV OPS. BHA and Microsoft agreed to commence the detailed planning process in May when resource availability syncs up for the two organizations. This functionality is expected to provide repeatable, automated regression testing for CAMHD and DDD in downstream releases. IV&amp;V will continue to monitor this finding.</li> </ul>	H

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



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

Recommendations	Status
<ul> <li>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.</li> </ul>	Completed
<ul> <li>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.)</li> </ul>	Completed
Modifying the deployment scripts based on information gained from previous release deployments.	Completed
<ul> <li>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.</li> </ul>	In Progress
<ul> <li>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.</li> </ul>	Completed
<ul> <li>Implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed.</li> </ul>	Completed
<ul> <li>IV&amp;V recommends performing an RCA in collaboration with RSM for the continued concerns with regression testing efforts.</li> </ul>	In Progress
<ul> <li>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.</li> </ul>	In Progress



#### 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. R3.13 was promoted to production on 3/14/2021. The R3.12 Root Cause Analysis (RCA) effort was completed in March resulting in several recommendations (some of which were in alignment with IV&V recommendations as listed below) for increasing the quality of deployments. Resulting action plans were expected to be finalized and prioritized by the end of March, however the prioritization effort has been pushed to April due to resource constraints. Initial efforts may include providing more details in the SharePoint and deployment checklists coupled with a secondary review process. BHA is considering the procurement of a tool(s) to aid with deployments/releases. This includes the administrative software tool demonstrated by RSM which manages the versions of software and components contained in all environments. IV&V will continue to monitor this finding.	ſ
Reco	ommendations	Status
pr	evelop a plan to institutionalize the execution of "Smoke Testing" for promotions to non-production and oduction environments. This will help to ensure that all components needed to test have been properly eployed prior to the actual execution of test activities.	Open
er	York in collaboration with RSM to establish a transition plan for DOH to assume all deployment activities to insure complete ownership of these processes. This should assist with consistency in approach and execution ping forward.	Open
• As	s appropriate, consult with RSM on best practices that BHA could employ to support deployment.	In Progress



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

Recommendations	Status
<ul> <li>Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed.</li> </ul>	Completed
<ul> <li>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.</li> </ul>	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
<ul> <li>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.</li> </ul>	Completed
The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.	In Progress
<ul> <li>IV&amp;V recommends performing an RCA in collaboration with RSM for the continued concerns surrounding environment differences.</li> </ul>	In Progress
<ul> <li>IV&amp;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.</li> </ul>	Open
<ul> <li>Due to an error prone process of 'cherry picking' what is and what is not ready for deployment, IV&amp;V recommends that DOH and RSM collaborate to determine an improved manner for managing DOH environments.</li> </ul>	Open



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

<ul> <li>High Issue - Due to consistent technical issues requiring escalation to Microsoft, some project efforts are being delayed. 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&amp;V will continue to monitor this finding.</li> </ul>	#	Key Findings	Criticality Rating
	18	efforts are being delayed. 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	H

Recommendations	Status
<ul> <li>IV&amp;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.</li> </ul>	In Progress

#	Key Findings	Criticality Rating
10	Changed from Medium to Low Risk -The COVID-19 pandemic and related "stay at home" order could hinder project activities and negatively impact the project schedule and budget. The Project continued to maintain its ability to operate with staff working remotely, while COVID-related responsibilities continue to grow for CAMHD Leadership. The Governor announced that potential furloughs and/or layoffs of State workers will no longer be necessary based on the signing of the American Rescue Plan. IV&V has reduced the priority of this finding from Medium to Low and will continue to monitor moving forward.	l

Recommendations	Status
<ul> <li>IV&amp;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).</li> </ul>	Completed
<ul> <li>IV&amp;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.</li> </ul>	In Progress
<ul> <li>IV&amp;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.</li> </ul>	Open



High Issue - Due to multiple quality concerns, the Project may continue to face impactful system defects. R3.13 was promoted to production on 3/14/2021. The RCA based upon R3.12 was completed in March which resulted in recommendations that were categorized as Coding Errors, Deployment, Design Errors, Microsoft Issues, and Requirement Errors. Resulting Action Plans were expected to be finalized and prioritized at the end of March but have now been pushed to April. Several of the identified action plan items are considered as potentially easy to implement. IV&V will continue to monitor.	#	Key Findings	Criticality Rating
	15	<b>defects.</b> R3.13 was promoted to production on 3/14/2021. The RCA based upon R3.12 was completed in March which resulted in recommendations that were categorized as Coding Errors, Deployment, Design Errors, Microsoft Issues, and Requirement Errors. Resulting Action Plans were expected to be finalized and prioritized at the end of March but have now been pushed to April. Several of the identified	8

Recommendations	Status
• Perform revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.	In Progress
<ul> <li>Perform typical project testing including System Integration, User Acceptance, Performance, and Regression Testing.</li> </ul>	In Progress
Assign dedicated resources to provide oversight of CAMHD Fiscal Processes.	In Progress

Recommendations	Status
<ul> <li>BHA and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase level of detail and quality.</li> </ul>	Completed
Monitor implemented improvements for effectiveness.	In Progress
Evaluate existing project staff skills and experience level to ensure they meet BHA support requirements.	Open
<ul> <li>IV&amp;V recommends performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement.</li> </ul>	In Progress



#	Key Findings	Criticality Rating
13	<b>Changed from Low Risk to Medium Issue – PII/PHI data in non-production environments.</b> There were no substantive changes for this finding in March. Due to resource constraints, establishing a plan for managing PHI/PII data in non-production DOH environments has not yet commenced. Based on continued delays, it remains unclear when this important security mitigation activity will be completed. IV&V has raised the priority of this finding from a Low Risk to a Medium Issue due to delays in resolving this finding. IV&V will continue to monitor.	M

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.	Open



#	Key Findings	Criticality Rating
12	<b>Closed Low Risk – DDD Project resource shortages may have a continued negative effect on user adoption, training, and overall OCM activities</b> . The DDD staff who've been part of the review process are pleased with the quality of the videos produced within the toolset and have determined that the toolset is a very helpful training tool for DDD staff and providers. As such, IV&V is closing this finding.	Closed

Recommendations	
<ul> <li>IV&amp;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.</li> </ul>	Completed
<ul> <li>IV&amp;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.</li> </ul>	Completed



#	Key Findings	Criticality Rating
14	<b>Closed Low Risk – Project unable to access activity logs.</b> Per BHA, this finding is no longer an issue and recommends closure. IV&V is closing this finding.	Closed

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



#	Key Findings	Criticality Rating
17	<b>Changed from Low to Medium Risk</b> - The bandwidth of CAMHD Leadership is being hampered by planning tasks and activities for assessing project expansion to other divisions. CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during March. More than 50% of Leadership time is spent on Phase 4 Planning and COVID Remediation efforts. The level of dedication to this effort is likely to continue to increase in the coming months. IV&V has raised the priority of this finding from Low to Medium and will continue to monitor moving forward.	M

Recommendations		Status
•	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	Preliminary Concern – The pending RSM contract expiration will require BHA to perform transition of the D365 solution to the State prior to contract end. The RSM contract for Phase 3 is currently planned to complete in September 2021. BHA will need a transition plan to ensure that it has all knowledge transfer and is fully capable of managing all aspects of supporting and maintaining the D365 solution without vendor support until at least the Phase 4 expansion effort is procured and initiated. The Phase 4 effort is currently expected to commence late in the 4th quarter of 2021, or early in the first quarter of 2022. The Phase 4 procurement scope is planned to include additional DD&I activities, as well as M&O support activities.	N/A

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## IV&V Findings & Recommendations Project Performance Metrics

Metric	Description	IV&V Observations	IV&V Updates
Velocity	<ul> <li>Review and validate the velocity data as reported by the project</li> <li>Verify the project is on pace to hit the total target number of US/USP for Phase 3</li> </ul>	<ul> <li>March – Available velocity was estimated at 60 user story points for R3.13, however a total of 89 (148%) USPs were completed and promoted to production.</li> <li>IV&amp;V notes that RSM includes USP counts from Mid Sprint Deployments prior to a planned release as component of the planned release.</li> <li>Overall, the cumulative Phase 3 targeted USPs through R3.13 was planned for 1,098. The cumulative completed USPs total is currently 1,438.3.</li> </ul>	N/A

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

Metric	Description	IV&V Observations	IV&V Updates
Defect Metrics	<ul> <li>Understand and track the following:</li> <li>Defects by category (bug fixes)</li> <li>US Points assigned to defects in a release vs US Points assigned to planned US in a release</li> </ul>	<ul> <li>March – R3.13 was comprised of 89 USPs that were released to production.</li> <li>61% of the total USPs were associated with planned user stories and requests.</li> <li>39% of the total USPs were associated with defects from the backlog.</li> </ul>	N/A



#### IV&V Findings & Recommendations Organizational Maturity Assessment

Measure	IV&V Observations
The Organizational Maturity A	assessment (OMA) is updated on a bi-monthly basis. IV&V currently planning for the next OMA in May



# **Appendix A: IV&V Rating Scales**

#### Appendix A IV&V Rating Scales

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

- See Findings and Recommendations Log (provided under separate cover)
- IV&V Assessment Category Rating Definitions

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

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

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

The assessment category is under control but also actively addressing resource, schedule or scope challenges that have arisen. There is a clear plan to get back on track.

The assessment category's risk and/or issues have been identified, and further mitigation is required to facilitate forward progress. The known impact of potential risks and known issues are likely to jeopardize the assessment category.

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

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

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

The assessment category's risks and issues pose significant challenges and require immediate mitigation and/or escalation. The project's ability to complete critical tasks and/or meet the project's objectives is compromised and is preventing the project from progressing forward.

Significant schedule issues exist (> 60 days late). Milestone and task completion dates will need to be re-planned. Executive management and/or project sponsorship attention is required to bring the assessment category under control.



#### **Appendix A** Finding Criticality Ratings

Criticality Rating	Definition
8	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
М	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be implemented as soon as feasible.
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 March 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
- IV&V Draft IV&V Status Review Meeting with RSM and DOH
- 9. RCA Log Review Meeting
- 10. RSM Deployment Tool Demo

#### Eclipse IV&V<sup>®</sup> Base Standards and Checklists

#### Artifacts reviewed during the March 2021 reporting period:

- 1. Daily Scrum Notes (selected)
- 2. Twice Weekly Issues Meeting Notes (selected)
- 3. Root Cause Analysis Worksheet
- 4. IDM System Documentation
- 5. Semantics Layer System Documentation



# **Appendix C: Project Trends**

## Appendix C Project Trends

Trend:	Overal	Projec	t Health	ı						
Process Area					2020	-2021				
PIOLESS Area	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
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										
			-			i				
Total Open Findings	6	6	7	7	10	11	11	10	11	8
Issue - high	0	0	0	0	0	0	0	4	4	4
Issue - medium	0	0	1	2	2	4	4	0	0	0
Issue - low	1	1	0	0	0	0	0	0	0	0
Risk - high	0	1	0	0	0	0	0	0	0	0
Risk - medium	2	2	3	3	3	2	2	2	2	4
Risk - low	2	1	0	0	0	3	3	4	4	0
Preliminary Concern	1	1	3	3	5	2	2	0	1	0





**Solutions that Matter** 

ID No	Identified Date	Title	Observation	Significance	Recommendation	Updates	Process Area	Finding Type	Priority	Status	Closure Reas	Risk Owner
1.000		processes and adoption of generally accepted agile best practices.	following topics as they relate to	is good, the project should be able to identify what feature enhancements will be targeted for each planned release. This roadmap will help the project manage scope and productivity. Relatedly, the "definition done" is an important artifact to ensure that the project is successful. Otherwise, the project will struggle to prioritize requests/enhancements and	identify what feature enhancements will	01/31/2020 - IV&V is closing this concern, and will be tracking items related to Definition of Done, roadmap, resourcing, and backlog grooming in new, separate findings.	Sprint Planning	Concern	N/A	Closed	Due to multiple new items being tracked at a more granular level, this item has been closed.	V Ramesh
2.000		As a result of regression testing not being consistently performed, production releases are both breaking and deprecating existing functionality in the production environment.	R3.3 introduced a defect that deprecated features in production specific to Integrated Support and Life Trajectory functionality. DDD has informed IV&V 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 2020.	Thorough vetting and validation of regression test cases is necessary to prevent both defects and the deprecation of production functionality when a release is pushed live. When defects occur in production, the project should follow a defined and repeatable process for determining the root cause of the problem.	Project should continue to pursue and/or consider:	03/31/2021 - R3.13 was promoted to production on 3/14/2021. The Root Cause Analysis (RCA) effort from R3.12 was completed in March resulting in several recommendations for increasing the quality of Testing. The corresponding RCA Action Plans were expected to be finalized and prioritized by the end of March; however, this has not been completed and the prioritization will be pushed to April. Several of the identified actions will be potentially easy to implement. The BHA Team continued to work with Microsoft during March to plan the level of effort and associated staffing needed to implement automated regression testing using MS DEV OPS. BHA and Microsoft agreed to commence the detailed planning process in May when resource availability syncs up for the two organizations. This functionality is expected to provide repeatable, automated regression testing for CAMHD and DDD in downstream releases. IV&V will continue to monitor this finding. 02/28/2021 - R3.12 was promoted to production on 2/14/2021. Approximately thirteen new defects resulted from the release; one was a critical CAMHD defect involving the workflow for	Test Practice Validation	Issue	High	Open		D Macdonald

3.000 :			that the Calculator 3.0 functionality is built in Vue.JS, an open source JavaScript framework. As this framework is relatively new, the open source support community is small. IV&V's concerns include: - The availability of reliable support for Vue.JS	Open source tools and frameworks offer organizations great opportunities to build and configure customized solutions at lower costs than through software purchase or licensing. However, open source tools and frameworks often do not come with support models, other than those offered through the tool's community. Because of this, the organization bears the weight of seeking out reliable help and support, as well as much take a proactive approach to security and identifying any vulnerabilities in the tools.	IV&V recommends BHA work to establish a reliable and repeatable process for keeping abreast of communal updates and support opportunities for a new suite of tools - Completed IV&V recommends BHA continue to hold targeted KT sessions with RSM on maintaining Calculator 3.0 via a suite of tools, and determine what additional skillsets, training, and/or resources are needed to support BHA's long-term ownership of Calculator 3.0 - Completed	08/31/2020 - IV&V is unaware of any additional KT gaps being identified by DOH, and as such, is closing this finding. 07/31/2020 - The Project resolved the majority of the outstanding Calculator 3.0 defects during July which was implemented in the mid-sprint release on 7/17/2020. The final Calculator 3.0 Knowledge Transfer session was conducted on 7/17/2020. IV&V recommends BHA to identify and communicate any additional KT gaps to RSM during the month of August. If no additional needs are identified, IV&V will close this finding. 06/30/2020 - The project continued to focus attention on the Calculator 3.0 defects during the month of June. RSM conducted another Calculator 3.0 Knowledge Transfer session on 6/26/2020 and scheduled a final session for 7/17/2020.	Targeted KT	Risk	Low	Closed	RSM has successfully held several KT sessions for this technology and functionality , and DOH staff have stated that it was well received.	D Macdonald
5.000	1/31/2020		There have been several defects	A complete, up to date, and	IVV recommends documenting	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 year-end changes. Additional KT sessions is 12/31/2020 - IV&V has closed this issue as the	Release/Deployme	Issue	Medium	Closed	Key finding	D
		detailed deployment script, the project may continue to experience defects related to deployment activities.	Inter have been several detects pushed 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 deployment notes, are being utilized by BHA for deployment activities.	A complete, up to bate, and documented deployment script is needed to ensure the repeatability and stability of DOH's production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take place.	deployment scripts for both the patch method and the full solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel are unavailable. Standardize the content of all developer deployment task notes, with a goal of eliminating any potential ambiguity to the Deployment Team, resulting in a cleaner and more repeatable set of deployment processes and instructions.	12/31/2020 - NeW has closed this issue as the related recommendations below has been completed. A subsequent medium issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the deployment. Root causes are suspected to be a combination of insufficient testing from a business perspective coupled with deployment issues. A bulk record update task required as part of the implementation was not included in the deployment, resulting in contacts being deprecated from the Circle of Support in Inspire. It is unclear if any other deployment issues may have also contributed to the new defects. Deployment corrections were applied in a mid sprint release on 11/27/2020. Based on the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved. 10/31/2020 - The RSM and DOH Teams have collaborated to develop a detailed Production Deployment Guide for R3.10 and are in the process of rehearsing some of the primary	nt Planning	13300			has been addressed and proposed IV&V recommend ations have been completed. A subsequent finding #19 has been created to address on- going deployment processes and technical execution issues.	U Macdonald

6.000	'Definition of Done", which could challenge the 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.		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	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			A comprehensive, up-to-date backlog is a primary tenet of agile software development. If a backlog is carrying work items that may not ever be completed for any reason, they should be removed from the backlog to ensure its viability.	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	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		ine project	D Macdonald

8.000	bandwidth may not be sufficient to meet the needs of the project, which could compromise project productivity.	responsibilities associated with the BHA Technical Team have expanded beyond their collective available bandwidth. IV&V notes that BHA began addressing this bandwidth issue, which includes increased collaboration with key RSM resources, and are working to potentially change the	the project. As such, the Team's time is both extremely valuable and scarce. If the Team's expected workload exceeds bandwidth, the project could experience bottlenecks. Optimization of the BHA Technical Team's time is to the benefit of the project and plays a critical role in the project's ability to hit performance targets and	mechanisms of increasing the bandwidth of the BHA Technical Team, either by adding resources through new hires, or vendor contracts. The Project should assess, where possible, if there are responsibilities of the BHA Technical Team that can be reassigned to other project staff. The Project should evaluate where process inefficiencies can be addressed and streamlined to possibly free up the BHA Technical Team's availability.	03/31/2021 - BHA continued to take on more lead responsibilities in the areas of user story ownership and performing code reviews during the month of March. CAMHD is hopeful their open IT Technical position will be posted in April. IV&V will continue to monitor this finding. 02/28/2021 - Due to lack of administrative approvals, the internal BHA efforts to post and fill technical positions have slowed. CAMHD is hopeful that the open IT Technical position will be posted in March. IV&V will continue to monitor. 01/31/2021 - 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. 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. 12/31/2020 - BHA stated that although most vacant positions cannot be filled at this time, they have approval to fill a vacant IT Technician	Sprint Planning	Risk		Open		D Macdonald
9.000	product features to be delivered in the near term (next 3 months), midterm, and long term could have an adverse impact on the	BHA does not have a single, definitive Product Roadmap for Phase 3 that addresses the functionalities, features, and / or enhancements to be built in order to fully address BHA's business needs. IV&V met with RSM and BHA on this topic in January, and notes that the project is actively working to address this concern.	A Roadmap is a tool that guides an agile project on what functionalities/features are targeted to be built and released and when users can have access to these functionalities. Without a defined Roadmap the project may not be able to effectively scope the top features to be released within Phase 3 and ensure the correct resources are available to accomplish the goal of each sprint and the Phase.	IV&V understands that the Project is in the process of creating a Short Term; Mid Term, and Long Term Roadmap. IV&V recommends the Project complete this by the end of February 2020 to understand if there are any constraints (resources, budget) that may hinder the project from releasing the needed functionalities/features targeted for Phase 3 as documented in the Definition of Done.	02/29/2020 - In February, the project further defined the Phase 3 Product Roadmap and aligned it with the Phase 3 Definition of Done. IV&V recommends the project continually review and update both the Product Roadmap and Definition of Done, adjusting as necessary. IV&V will continue to monitor the project's adherence to the Product Roadmap and progress against it but is closing out this concern as of the February report.	Project Management	Concern	N/A	Closed	Product Roadmap aligned with Definition of Done	V Ramesh

0.000	3/31/2020		On 3/23/2020, the Governor	DOH stakeholder participation in	<ul> <li>IV&amp;V recommends BHA to ramp up</li> </ul>	03/31/2021 - The Project continued to maintain	Project	Risk	Low	Open	D
		related "stay at home" order	issued a "stay at home, work	key activities could be significantly	efforts to setup, train, and assist	its ability to operate with staff working	Management				Mac
		could hinder project activities and	from home order" that has	hindered, not only by required	stakeholders on remote work devices	remotely, while COVID-related responsibilities					
		negatively impact the project	reduced state departments ability	remote work by DOH and SI staff,	and tools and make every effort to help	continue to grow for CAMHD Leadership. The					
		schedule and budget.	to be fully functional as the large	but also by the flood of activities	them to become highly functional with	Governor announced that potential furloughs					
			majority of state workers will be	that could occur as the department	remote access technology (e.g. MS	and/or layoffs of State workers will no longer be					
			required to work from	could become overwhelmed	Teams/Skype) - Completed	necessary based on the signing of the American					
			home/remotely at least until the	processing and providing services	- IV&V recommends the project and DOH	Rescue Plan. IV&V has reduced the priority of					
			end of April and some offices may	due to the resulting economic	create a detailed, documented risk	this finding from Medium to Low and will					
			be completely shut down until	impacts to citizens. Some	mitigation strategy and plan that is	continue to monitor moving forward.					
			that time as well. Unclear if the	stakeholders may be unable (due to	reviewed regularly and revised to	02/28/2021 - As reported in January, there were					
			order will extend beyond that	stricter shutdown policies) or	address the current state of the COVID-	no substantive changes observed for this finding					
			date.	unwilling to perform these	19 threat and related impacts over the	in February. The Project continued to maintain					
				activities during this chaotic time.	next 6 to 12 months - In Progress	its ability to operate with staff working					
				Planned SI on-site visits will also	- IV&V recommends updates to the OCM	remotely. IV&V continues to note that there					
				likely be changed to remote which	Plan to include any new activities or	may be potential future budget actions by the					
				could reduce the effectiveness of	updates to planned activities to aid the	Governor due to projected State budget					
				their project activities. Going	organization through this COVID-19	shortfalls, including furloughs that are planned					
				forward most if not all project	situation in the short and long term -	to be re-evaluated in July. If realized, these					
				activities will more than likely be	Open	actions could have negative effects on project					
				conducted remotely until this crisis		funding.					
				passes.		01/31/2021 - 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					
1.000	5/31/2020	The lack of design reviews for	There were a couple incidents	If all requirements within a	IV&V recommends (and DOH has	07/31/2020 - The Project continues to to spend		Concern		Closed	This process
		complex user stories has resulted	during May where the code	functional design are not met, users	commenced) conducting technical	additional time on the designs of complex user					change to
		in the promotion of incomplete	promoted to production did not	could experience the inability to	design reviews for complex user stories	stories during June to ensure requirements and					spend extra
		solutions into production.	fully meet all requirements of	complete required processes,	prior to development to ensure designs	user story components were fully captured in					time on the
			associated user stories for	resulting in incomplete data	are complete and all requirements	design sessions. This process change has proven					design of
			CAMHD Progress Notes. The	collection and potential issues in		successful, and as such, IV&V recommends					complex
			components that were developed		observed this activity has been	closing this concern.					user stories
			and implemented were		implemented by DOH in the month of	06/30/2020 - IV&V acknowledges the Project					to ensure
			functional, however the effort		May.	Team continued to spend additional time on the					that all
			was complicated by additional			designs of complex user stories during June to					requirement
			requirements being added during			ensure requirements and user story					s are
			development that necessitated			components were fully captured in design					represented
	1		additional changes to the design.			sessions. IV&V will continue to monitor in July.					has proven
		1				sessions. They will continue to monitor in Jury.		1			to be
			IIV&V will continue to monitor the				1	1	1	1	
			IV&V will continue to monitor the								Isuccessful
			design review activity for large								successful.
											successful.
			design review activity for large								successful.
			design review activity for large								successful.

12.000	7/31/2020	DDD Project resource shortages	The user adoption and training	- ·	IV&V recommends that BHA does as	03/31/2021 - The DDD staff who've been part of	1 .	Risk	Low	Closed	The DDD	D
		may have a continued negative	efforts are hampered based on	can never be understated. It is	much as possible within its sphere of	the review process are pleased with the quality	Management				staff who've	Macdonald
		effect on user adoption, training,	staffing shortages. DDD has	clearly a best practice that best that	influence to increase user adoption and	of the videos produced within the toolset and					been part of	
		and overall OCM activities.	stated that its users have been	all staff utilize the solution in the	training. This includes procurement of	have determined that the toolset is a very					the review	
			found to not be utilizing the	same manner. Variations in how	the online training toolsets to offset the	helpful training tool for DDD staff and providers.					process are	
			system to its fullest extent in	the system is utilized by its users is	need for in-person training, and adding	As such, IV&V is closing this finding.					pleased with	
			terms of system workflow,	likely to cause variations in data	staff as needed to support OCM and	02/28/2021 - Training videos using the new					the quality	
			provide their insights and input,	collection and analytical efforts	technical efforts.	toolset were nearing completion by the end of					of the videos	
			follow up, etc. To assist in OCM	using the data collected.	IV&V recommends DOH perform a	February. DOH is currently reviewing the drafts					produced	
			activities, DDD has defined the		detailed investigation of the specific	of the second set of videos and work is					within the	
			need for an interactive training		variations as to how the system is	progressing well. IV&V will continue to monitor					toolset, and	
			tool to support Inspire.		currently being used by the user	this finding until DDD has had sufficient time to					have	
					community. Consequently, users would	determine the overall quality of the training					determined	
					be provided with constructive feedback	work products and whether the new toolset is					that the	
					on how the system should be utilized	addressing user adoption and staffing shortages					toolset is a	
					where gaps exist. This will likely lead to	for these task efforts.					very helpful	
					additional refresher training to close	01/31/2021 - Training design activities using the					training tool	
					identified system knowledge gaps.	interactive training toolset commenced in					for DDD	
						January and has attained good progress. The use					staff and	
						of this tool is expected to provide some					providers.	
						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							
					interactive training toolset for onboarding new							
2 000	0/24/2020		N(0) ( here here meets success that	Failure to accure DII (DI II data la com	N(0) ( and a second of the sec		Ducient	lasus	Madium	0		
3.000	8/31/2020	PII/PHI data in non-production	IV&V has been made aware that		IV&V recommends if production data is	03/31/2021 - There were no substantive	Project	Issue	Medium	Open		D Macdona
		environments	PII/PHI data currently exist in a	the organization open to highly	necessary in any non-production	changes for this finding in March. Due to	Management					iviacdona
			non-production environment to	targeted social engineering attacks,	environment that DOH establishes a plan	resource constraints, establishing a plan for						
			meet project needs. Generally	heavy regulatory fines, and loss of	for effectively managing the security of	managing PHI/PII data in non-production DOH						
					the PII/PHI data, including the potential							
			this is not a good security practice	client trust and loyalty.		environments has not yet commenced. Based on						
			as the presence of PII/PHI data in	chent trust and loyalty.	masking of data.	continued delays, it remains unclear when this						
			as the presence of PII/PHI data in non-production environments	chent trust and toyarty.	masking of data. IV&V recommends that DOH mitigates	continued delays, it remains unclear when this important security mitigation activity will be						
			as the presence of PII/PHI data in non-production environments increases the potential for theft,	chent trust and loyalty.	masking of data. IV&V recommends that DOH mitigates this finding by removing and/or masking	continued delays, it remains unclear when this important security mitigation activity will be completed. IV&V has raised the priority of this						
			as the presence of PII/PHI data in non-production environments increases the potential for theft, loss or exposure thus increasing	chent dust and loyalty.	masking of data. IV&V recommends that DOH mitigates this finding by removing and/or masking any PHI/PII data in its non-production	continued delays, it remains unclear when this important security mitigation activity will be completed. IV&V has raised the priority of this finding from a Low Risk to a Medium Issue due						
			as the presence of PII/PHI data in non-production environments increases the potential for theft, loss or exposure thus increasing the organization's risk. Failure to	chent dust and loyalty.	masking of data. IV&V recommends that DOH mitigates this finding by removing and/or masking any PHI/PII data in its non-production environments.	continued delays, it remains unclear when this important security mitigation activity will be completed. IV&V has raised the priority of this finding from a Low Risk to a Medium Issue due to delays in resolving this finding. IV&V will						
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14.000	8/31/2020	Project not able to access Activity	The Project recently deployed	The unavailability of activity logs	IV&V recommends that DHS continues to	03/31/2021 - Per BHA, this finding is no longer	Release/Deployme	Risk	Low	Closed	Finding has	D
		Logs	audit log functionality into	may hamper the investigation of	collaborate with Microsoft until the	an issue and recommends closure. IV&V is	nt Planning				been	Macdonald
			production whereby these logs	future security breaches.	activity logging feature is available in all	closing this finding.					resolved.	
			can be accessed and exported as		BHA non-production environments.	02/28/2021 - BHA continued this effort in						
			needed. However, IV&V was			February despite a workaround being necessary						
			made aware access to activity			from Microsoft due to a layering issue. Based on						
			logging for users with just view			continued delays, it is unclear when this						
			permissions will not be available			important security activity will be completed.						
			from Microsoft in the public			IV&V will continue to monitor this finding. (Per						
			sector environment until the end			Kamu, this status information did not correctly						
			of September 2020. The			reflect the issue as the layering issue has no						
			unavailability of these specific			relation to the activity logs.)						
			activity logs could potentially			01/31/2021 - The implementation effort for this						
			hamper the investigation of			activity moved forward in January. Some of the						
			future security events until			entities will have activity logging completed in						
			implemented.			the planned early February Release 3.12, while						
						others will be delayed until Release 3.13. IVV						
						will continue to monitor.						
						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								
						commenced the analytical effort to determine						
5.000	9/30/2020	Due to multiple quality concerns,	System defects identified in	The identified quality issues have	To address quality issues, the Project	03/31/2021 - R3.13 was promoted to production		Issue	High	Open		D
		the project may continue to face	August that affected claims were	negatively affected DOH billing	should continue to pursue and/or	on 3/14/2021. The RCA based upon R3.12 was	Management					Macdonald
		impactful system defects.	due to multi-faceted quality	processes and DOH has stated	consider:	completed in March which resulted in						
			issues were individually	these are the most impactful	1) Perform revenue neutrality fiscal	recommendations that were categorized as						
			addressed during this reporting	defects discovered to date.	balance testing on a quarterly basis to	Coding Errors, Deployment, Design Errors,						
			period. IV&V notes that there is		ensure revenues are as expected.	Microsoft Issues, and Requirement Errors.						
			one remaining defect still being		2) Performing typical project testing	Resulting Action Plans were expected to be						
			evaluated that affects a limited		2) Performing typical project testing including System Integration, User	Resulting Action Plans were expected to be finalized and prioritized at the end of March but						
			evaluated that affects a limited number of claims. Overall, the		2) Performing typical project testing including System Integration, User Acceptance, Performance, and	Resulting Action Plans were expected to be finalized and prioritized at the end of March but have now been pushed to April. Several of the						
			evaluated that affects a limited number of claims. Overall, the Project Team has responded with		2) Performing typical project testing including System Integration, User Acceptance, Performance, and Regression Testing.	Resulting Action Plans were expected to be finalized and prioritized at the end of March but have now been pushed to April. Several of the identified action plan items are considered as						
			evaluated that affects a limited number of claims. Overall, the Project Team has responded with a commitment to increase project		<ol> <li>Performing typical project testing including System Integration, User Acceptance, Performance, and Regression Testing.</li> <li>Assigning a dedicated resource to</li> </ol>	Resulting Action Plans were expected to be finalized and prioritized at the end of March but have now been pushed to April. Several of the identified action plan items are considered as potentially easy to implement. IV&V will						
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	40/5/2022		The sum test water by the second			04/24/2024 The market I I I I I I	To you at a direct	Company		Class I	There	
16.000	10/5/2020	Usage of Semantics and IDM for	The project noted its intent to			01/31/2021 - The project has made great strides	Targeted KT	Concern		Closed		D
		development and ongoing	obtain more targeted knowledge			addressing this concern. A Semantics Layer KT					has made	Macdonald
		maintenance of the system	transfer of both the Semantics			session was conducted on 1/29/21 and multiple					good	
		requires BHA to take a proactive	Reporting and IDM tools. IV&V			IDM and Semantic Layer sessions has been					progress	
		approach to support of these	will continue to monitor this			scheduled in February. IV&V is closing this					establishing	
		tools.	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 of					the IDM and	
						the Semantics Layer KT session was held on					Semantics	
						12/16/20. The planning effort will result in					Layer KT	
						additional Semantic Layer and IDM KT sessions					plan.	
						in the coming months. IV&V will continue to						
						monitor this finding.						
						11/30/2020 - The project conducted two high-						
						level overview sessions of the Semantic Layer						
						Reporting tools during November. One session						
						was focused on the overall Semantic Layer, and						
						the second session was focused on Semantic						
						Layer Security. Additional targeted Knowledge						
						Transfer sessions on the Semantic Layer tools						
						will need to be provided by RSM; however,						
						these have not been scheduled. IV&V will						
						continue to monitor this finding.						
						10/31/2020 - The project intends to obtain more						
						targeted knowledge transfer for both the						
						Semantics Reporting and IDM tools and will be						
						planning and scheduling these sessions with the						
7.000	10/27/2020	The bandwidth of CAMHD	CAMHD has been provided with	CAMDH Leadership participation in	IV&V recommends CAMHD look for	03/31/2021 - CAMHD Leadership time spent on	Project	Risk	Medium	Open		D
	10,2,,2020	Leadership is being hampered by	an approval to commence		opportunities to augment the	efforts outside of the INSPIRE Project continued	Management	11000	culuiii	open		Macdonald
		planning tasks and activities for	planning efforts for expansion of	hindered by the flood of activities	management staffing for planning Phase	to increase during March. More than 50% of	Management					in accortance
		assessing project expansion to	the project for ADAD and AMHD	that could occur as the department		Leadership time is spent on Phase 4 Planning						
		other divisions.	& HSH. CAMHD Leadership	assesses expansion of this project	4 and Midd work.	and COVID Remediation efforts. The level of						
			currently spends 25% of their	to the balance of divisions.		dedication to this effort is likely to continue to						
				to the balance of divisions.								
			available time dedicated to this			increase in the coming months. IV&V has raised						
			available time dedicated to this planning effort.			the priority of this finding from Low to Medium						
						the priority of this finding from Low to Medium and will continue to monitor moving forward.						
						the priority of this finding from Low to Medium and will continue to monitor moving forward. 02/28/2021 - CAMHD Leadership continued to						
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18.000	11/30/2020	Due to consistent technical issues	The IDM and Semantic layer	(	IV&V recommends the project to	03/31/2021 - BHA continues to work with	Release/Deployme	Issue	High	Open	D
11,0	11, 50, 2020	requiring escalation to Microsoft,	efforts have experienced several		continue to monitor the status of	Microsoft on technical issues as they arise in the		issue		open	Macdonald
		some project efforts are being	delays attributable to issues		outstanding Microsoft tickets and to	Government Community Cloud (GCC) instance.					
		delayed.	escalated to Microsoft. The		escalate the priority of these tickets as	The issue with fields being locked is still					
			issues have ranged from		deemed necessary.	outstanding. IV&V will continue to monitor this					
			administrative / communication	1		finding.					
			(entering issues into the	1		02/28/2021 - BHA continues to work with					
			Commercial support instance vs	1		Microsoft on technical issues as they arise in the					
			the Government Cloud support	1		Government Community Cloud (GCC) instance.					
			instance), to several key technical	1		IV&V will continue to monitor this finding.					
			issues requiring assistance to	1		01/31/2020 - While most of the Microsoft issues					
			resolve. To date, these support	1		were fixed, the 'first 10 rows', the 'multi-select					
			needs have added over a month	1		options', and 'unmanaged layer on the Case					
			to the IDM and Semantic Layer	1		entity' issues are partially outstanding impacting					
			project schedules.	1		project timelines. As temporary measures, the					
			project seried diesi	1		project has developed workarounds. Per BHA,					
				1		the Product Roadmap for the GCC product					
						continues to lag behind commercial instances					
						which causes uncertainties for the BHA-ITS					
				1		Project. BHA plans to meet with senior					
				1		Microsoft management to discuss during					
				1		February. IV&V will continue to monitor.					
				1		12/31/2020 - While most of the issues requiring					
				1		escalation to Microsoft were adequately					
				1		addressed during December, the Azure Data					
				1		Factory (ADF) 'first 10 rows missing data' issue					
				1		remain open. BHA has created a work around for					
9.000	12/31/2020	Due to on-going deployment	There have been several defects	Repeatable documented release	Develop a plan to institutionalize the	03/31/2021 - R3.13 was promoted to production	Release/Deployme	Issue	High	Open	D
	12/ 51/ 2020		pushed to production with Phase	and deployment will help ensure	execution of "Smoke Testing" for	on 3/14/2021. The R3.12 Root Cause Analysis	nt Planning	15500	1.1.5.1	open	Macdonald
		issues, the project may continue	3 releases. Some of the defects		promotions to non-production and	(RCA) effort was completed in March resulting in					
		to encounter defects and	introduced to production have	that functionality is not mistakenly	production environments. This will help	several recommendations (some of which were					
		challenges in meeting projected	been narrowed down to		to ensure that all components needed to	in alignment with IV&V recommendations as					
		timelines for production and non-	environmental promotional		test have been properly deployed prior	listed below) for increasing the quality of					
		production deployments.	activities. In these instances, the	·							
		production deployments.				deployments Resulting action plans were					.
			DEV and TEST onvironments were		to the actual execution of test activities.	deployments. Resulting action plans were					
			DEV and TEST environments were		Work in collaboration with RSM to	expected to be finalized and prioritized by the					
			not in sync with the production		Work in collaboration with RSM to establish a plan for DOH to assume all	expected to be finalized and prioritized by the end of March, however the prioritization effort					
			not in sync with the production environment (missing business		Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure	expected to be finalized and prioritized by the end of March, however the prioritization effort has been pushed to April due to resource					
			not in sync with the production environment (missing business rules, missing components,		Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure complete ownership of these processes.	expected to be finalized and prioritized by the end of March, however the prioritization effort has been pushed to April due to resource constraints. Initial efforts may include providing					
			not in sync with the production environment (missing business rules, missing components, missing dependencies, etc.). IVV		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	expected to be finalized and prioritized by the end of March, however the prioritization effort has been pushed to April due to resource constraints. Initial efforts may include providing more details in the SharePoint and deployment					
			not in sync with the production environment (missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed		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.	expected to be finalized and prioritized by the end of March, however the prioritization effort has been pushed to April due to resource constraints. Initial efforts may include providing more details in the SharePoint and deployment checklists coupled with a secondary review					
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			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		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	expected to be finalized and prioritized by the end of March, however the prioritization effort has been pushed to April due to resource constraints. Initial efforts may include providing more details in the SharePoint and deployment checklists coupled with a secondary review process. BHA is considering the procurement of a tool(s) to aid with deployments/releases. This					
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20.000	3/28/2021	The pending RSM contract	The RSM contract for Phase 3 is	DOH needs to be in a position to	Work hand in hand with RSM to ensure	Project	Concern	Ope	en	Vic Dudoit
		expiration will require BHA to	currently planned to complete in	completely stand on its own	that DOH has the knowledge, skills, and	Management				
		perform transition of the D365	September 2021. BHA will need a	without the assistance of vendor	capabilities to perform all aspects of the					
		solution to the State prior to	transition plan to ensure that it	support by fall of 2021. If DOH is	project prior to September 2021. If the					
		contract end.	has all knowledge transfer and is	not in a position to solely take on	knowledge transfer takes more time					
			fully capable of managing all	the development of user stories,	than planned, consider developing,					
			aspects of supporting and	testing, regression testing,	testing, and promoting less releases in					
			maintaining the D365 solution	deployment, and the support and	the summer months as the transition off					
			without vendor support until at	maintenance of the entire system,	of vendor support approaches.					
			least the Phase 4 expansion effort	there is a risk that environment						
			is procured and initiated. The	stability may be challenged.						
			Phase 4 effort is currently							
			expected to commence late in the							
			4th quarter of 2021, or early in							
			the first quarter of 2022. The							
			Phase 4 procurement scope is							
			planned to include additional							
			DD&I activities, as well as M&O							
			support activities.							