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November 17, 2022

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-First State Legislature State Capitol, Room 409 Honolulu, Hawai'i 96813 The Honorable Scott K. Saiki Speaker and Members of the House of Representatives Thirty-First State Legislature State Capitol, Room 431 Honolulu, Hawai'i 96813

Aloha Senate 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 Hawai'i, Department of Health, 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

Attachments (2)



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

Final IV&V Report for the period of

September 1 – September 30, 2022

Final submitted: October 14, 2022



**Solutions that Matter** 

## Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





## **Executive Summary**

The Project deployed R3.26 to production on 9/1/2022 with no post-deployment defects. This is a notable improvement from previous releases.

The Project Team completed the backlog review in September and added RSM staff to the project to meet the demands of the re-baselined backlog work.

The current DDD Product Owner announced she will be leaving the project in early October. IV&V has opened a new high issue due to the many roles and responsibilities the DDD Product Owner performs and the short transition period.

The pending IAPDU to extend the DD&I period beyond October 2022 will be submitted in early October. IV&V will continue to monitor the status of this impactful item.

Jul	Aug	Sep	Category	IV&V Observations
R	R	R	Sprint Planning	The Project completed the review of the backlog to ensure it is current, manageable, and feasible to implement within the development timeframes. The IAPDU to extend the current DD&I period will be submitted to DHS and CMS in early October. The criticality rating for this category remains Red (high) for the September reporting period.
G	G	G	User Story (US) Validation There are no active findings in the User Story (US) Validation category which remain Green (low criticality) for the September reporting period. IV&V will continue to monit the US development and validation process in upcoming reporting periods.	
Y	Y	Y	Y Test Practice Validation Training on the Tricentis test automation tool started in September and will continue through R3.27 with full implementation targeted for R3.28. This category remains (medium criticality) for the September reporting period.	
R	R	R	Release / Deployment Planning	There were no post-production defects attributed to deployment issues for R3.26. BHA continues to collaborate with Microsoft and RSM on deployment best practices to ensure repeatable solution upgrade deployment activities. IV&V will continue to closely monitor this high criticality category.



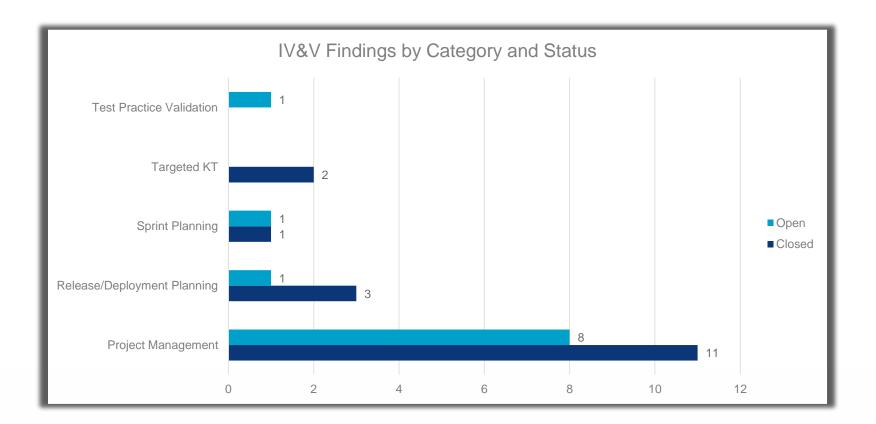
## **Executive Summary**

Jul	Aug	Sep	Category	IV&V Observations	
G	G	G	OJT and KT Sessions	The criticality rating for the OJT and KT Sessions category remains Green (low) for the September reporting period with no active findings.	
G	G	G	Targeted KT	This category remains Green (low criticality) for the September reporting period. IV&V will continue to monitor.	
G	G	G	Project Performance Metrics	The R3.26 defect percentage was 32% which fell short of the target of 20% or less. The velocity for R3.26 of 77 USPs also fell short of the estimated 90 USPs. IV&V will continue to monitor this category.	
G	G	G	Organizational Maturity Assessment (OMA)	There were no updates to this category. The criticality rating for the OMA category remains Green (low).	
R	R	R	Project Management	Quality improved in September as there were no post-production defects for R3.26. The high criticality risk opened last month to address the barriers/delays in submitting an IAPDU is still a concern for IV&V, but the IAPDU should be submitted in early October. IV&V opened a new high criticality issue related to the departure of the DDD Product Owner. The criticality rating for this category remains red this month.	



### **Executive Summary**

As of the September 2022 reporting period, there are a total of eleven (11) open findings – four High Issues, five Medium Issues, one High Risk, and one Preliminary Concern 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 verifies and validates 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
7	High Issue - The BHA Technical Team bandwidth may not be adequate to meet the needs of the project, which could compromise project productivity. The completion of the backlog analysis and updates in previous months resulted in a backlog larger than envisioned. As a result, BHA and RSM agreed to add RSM resources to the project nearly doubling the RSM staff over the final stretch of development. This is a very positive start to resolving the overall technical staffing issue. IV&V will continue to monitor moving forward.	•
Recor	nmendations	Status
• BH/	A needs, and should pursue, documentation of the Calculator 3.0 solution.	In progress
	Project should investigate mechanisms of increasing the bandwidth of the BHA Technical Team, either by ing resources through new hires, or vendor contracts.	Completed
	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 he BHA Technical Team's availability.	In progress



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

Recommendations	Status
<ul> <li>BHA needs, and should pursue, additional Knowledge Transfer sessions on the updated Calculator 3.0 solution.</li> </ul>	Completed
The Project should consider the formation of a first level resource team to triage/address production defects in a timely manner, without disrupting new development work.	Completed
<ul> <li>The Project should consider procurement of an online training toolset to support OCM and technical efforts to offset the need for in-person training.</li> </ul>	Completed



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

#	Key Findings	Criticality Rating
2	Medium Issue – As a result of regression testing not being consistently performed, production releases are breaking and/or deprecating existing functionality in the production environment. Regression testing was successfully completed for R3.26 which was promoted to production on 9/1/2022. There were no post go-live bugs reported. A Tricentis project kick-off was conducted on 9/2/2022 with ongoing training in progress through R3.27. R3.28 remains the target release for full implementation and execution of the test automation tool.	M

Recommendations		
<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>IV&amp;V recommends DDD and CAMHD develop a common and consistent approach across divisions for regression testing.</li> </ul>	Completed	
<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>	Completed	



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

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
<ul> <li>Performing regression testing after every release, or possibly every other release, or potentially tying regression tests to FSU 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
<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
Modifying the deployment scripts based on information gained from previous release deployments.	Completed



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

Recommendations	
<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>IV&amp;V recommends performing an RCA in collaboration with RSM for the continued concerns with regression testing efforts.</li> </ul>	Completed

12

#### IV&V Findings & Recommendations Release / Deployment Planning

#	Key Findings	Criticality Rating	
18	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. The R3.26 release was deployed to production on 9/1/2022, using the patch deployment methods. The upcoming R3.27 and R3.28 releases will require full solution upgrades (FSU) for deployment based on their entity contents. FSUs have historically been quite challenging for the project, inferring that this may increase risk to these releases. To help mitigate the risk, BHA continues to collaborate with Microsoft and RSM on deployment best practices. While BHA continues to increase their learning, they acknowledge that there are still several unknowns in terms of applying those practices. The team's knowledge gaps for repeatable deployment activities are not fully understood. The R3.27 FSU was successfully moved to the test environment prior to the end of September, and the production promotion is planned for mid-October. IV&V will continue to monitor this high exposure issue.	ſ	
Re	Recommendations		
1	Ensure there are adequate and qualified resources to support the current deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components.		
• ,	As 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>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
<ul> <li>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.</li> </ul>	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
<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>	In Progress
<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>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
<ul> <li>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.</li> </ul>	Completed



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

Recommendations	Status
<ul> <li>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.</li> </ul>	Completed
<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. (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.)</li> </ul>	Closed



#	Key Findings	Criticality Rating
14	Medium Issue - Due to multiple quality concerns, the Project may continue to face impactful system defects. R3.26 was deployed to production on 9/1/2022. No post-deployment defects were identified following this release which is the first occurrence in at least the last five releases. IV&V will continue to monitor this medium exposure issue.	M

Recommendations	Status
• Evaluate existing project staff skills and experience level to ensure they meet BHA support requirements.	In Progress
<ul> <li>Perform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.</li> </ul>	In Progress
Assign dedicated resources to provide oversight of CAMHD Fiscal Processes.	In Progress
Monitor implemented IV&V recommendations for effectiveness.	In Progress



Recommendations	Status
<ul> <li>IV&amp;V recommends performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement.</li> </ul>	Completed
• BHA and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase level of detail and quality.	Completed
<ul> <li>Perform typical project testing including System Integration, User Acceptance, Performance, and Regressio Testing.</li> </ul>	on Completed
<ul> <li>Dedicate sufficient time in between releases for BHA and RSM to execute/implement RCA correction action to reduce the volume of unplanned rework.</li> </ul>	Completed



#	Key Findings	Criticality Rating
12	<b>Medium Issue – PII/PHI data in non-production environments.</b> The Security Assessment is pending approval by the ASO. RSM is planning to address this issue as part of the backlog scope for R3.28. IV&V will continue to monitor this medium criticality issue.	M

Recommendations	Status
<ul> <li>IV&amp;V recommends DOH consider limiting the volume of environments with PII/PHI data and access necessary to support development work, which should help minimize this risk.</li> </ul>	Open
<ul> <li>IV&amp;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.</li> </ul>	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



<ul> <li>Medium Issue – Unplanned rework may have an impact on delivering DDI functionality by the end of the DDI period. The defect percentage of USPs deployed to production climbed again in September. R3.26 had an estimated velocity of 90 USPs, and 77 USPs were promoted to production. Thirty-two percent (32%) of all USPs in R3.26 were attributable to defects, while 68% of the total USPs were associated with planned user stories and requests. This September metric falls short of the target of no more than 20% of the total USPs promoted during the month. IV&amp;V will continue to monitor this medium criticality finding.</li> </ul>	#	Key Findings	Criticality Rating
	21	of the DDI period. The defect percentage of USPs deployed to production climbed again in September. R3.26 had an estimated velocity of 90 USPs, and 77 USPs were promoted to production. Thirty-two percent (32%) of all USPs in R3.26 were attributable to defects, while 68% of the total USPs were associated with planned user stories and requests. This September metric falls short of the target of no more than 20% of the total USPs promoted during the month. IV&V will continue to monitor this medium	M

Recommendations		Status
•	Reduce the amount of unplanned rework by continuing to focus on quality improvement measures.	In Progress
•	Strive for defect performance metric not to exceed 20% of all user story points in any given release.	In Progress

#	Key Findings	Criticality Rating
22	<b>High Issue - The project schedules for 'big boulder' functionality development are slipping.</b> 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during September. While staffing was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the project's requirements and expectations.	B

Recommendations		Status
•	Extend the current DDI timeframe to allow for the completion of 'big boulder' interfaces functionality development.	In Progress
•	BHA to add more resources to support the development of "big boulder' interfaces functionality.	Completed



#	Key Findings	Criticality Rating
25	Medium Issue - The lack of a formal project governance structure is impeding decision-making procedures and overall leadership cohesiveness. The Project Charter was signed and approved during September, which is the first step in enacting a formal governance process for the project. IV&V will continue to monitor the governance activities.	M
Reco	ommendations	Status
pc re	stablish a formal project governance structure to allow CAMHD, DDD, and other divisions to 1) have a single bint of accountability, 2) ensure the right projects are approved, 3) outline roles, responsibility and lationships among project stakeholders, 4) provide issue management and resolution, and 5) help with formation dissemination and transparent communication.	In Progress



#	Key Findings	Criticality Rating
26	Preliminary Concern - The inability for BHA staff to work remotely is decreasing productivity and causing morale issues amongst team members. Project team members have reported decreased productivity. There is a strong likelihood of the Project losing team members due to their inability to work remotely, as evidenced by a current Help Desk employee retiring and the DDD Product Owner leaving BHA and citing this as one of the reasons. The Department may consider granting remote work.	N/A



#	Key Findings	Criticality Rating
27	High Risk - The current DDI period expires at the end of October 2022 which will require RSM to transition the D365 solution to the State prior to contract end. Efforts to submit an IAPDU to pursue CMS Federal funding approval for extending DD&I through May 2023 have progressed in September and BHA plans on submitting the IAPDU to CMS in early October. If the IAPDU is not approved by the end of October, the project will be at major risk.	8
Reco	ommendations	Status
• DI	HS to reconcile current claims invoicing discrepancies.	In Progress



#	Key Findings	Criticality Rating
28	<i>New High Issue</i> - The DDD Product Owner resigned her position in September and will transition off the project in early October. The absence of the current DDD Product Owner will cause major challenges for DDD as she wore multiple hats and is responsible for many aspects of the day-to-day work from both an administrative and business perspective.	•
Recommendations		Status
	&V recommends a formal transition plan be fully defined and executed prior to the DDD Product Owner eparture.	Completed
	&V recommends DDD seek (internal/external) multiple staff to replace the DDD Product Owner for each le served.	New
	&V recommends DDD consider soliciting contracted staff to fill the immediate gaps with the DDD Product wner's departure.	New



## 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>September - Available velocity was estimated at 90 user story points for R3.26 and a total of 77 user story points were promoted to production. This was accomplished with two (2) very small mid-sprint deployments in late August and early September coupled with the final release on September 1, 2022.</li> <li>The overall cumulative Phase 3 targeted USP's was planned for 2,197 and the actual USP count is now 2,879.27.</li> <li>Overall, this continues to exceed expectations for volume of work performed.</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>September - R3.26 was deployed to production on September 1, 2022, with a total of 77 USPs.</li> <li>68% of the total USPs were associated with planned user stories and requests.</li> <li>32% of the total USPs were associated with defects that were either encountered during the release or pulled from the backlog.</li> <li>The defect ratio in September 2022 did not meet the target threshold of 20% or less of the total USPs in any given release.</li> </ul>	N/A



## **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 September 2022 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. IV&V Draft IV&V Status Review Meeting with DOH
- IV&V Draft IV&V Status Review Meeting with RSM and DOH

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

#### Artifacts reviewed during the September 2022 reporting period:

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



# **Appendix C: Project Trends**

## Appendix C Project Trends

Trend: Overall Project Health										
Drososs Aroa	2021/2022									
Process Area		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
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		1		î	1	i		İ
Total Open Findings	8	8	7	7	7	7	8	9	10	11
Issue - high	1	1	1	2	2	2	3	3	3	4
Issue - medium	4	4	4	4	4	5	5	5	5	5
Issue - Iow	3	3	2	1	1	0	0	0	0	0
Risk - high	0	0	0	0	0	0	0	0	1	1
Risk - medium	0	0	0	0	0	0	0	0	0	0
Risk - low	0	0	0	0	0	0	0	0	0	0
Preliminary Concern	0	0	0	0	0	0	0	1	1	1





**Solutions that Matter** 

ID [	Date Identified Finding	Finding Statement	Supporting Analysis	PCG Recommendation	Finding Update	Process Area	Finding Type	Priority	Status	Risk Owner	Closure Reason
1.00	12/31/2019 Detailed investigation	IV&V is currently investigating	While having a high level roadmap is good,	As much as possible, the project	01/31/2020 - IV&V is closing this concern,	Sprint Planning	Preliminary	N/A	Closed	Ramesh, Vijaya	Due to multiple
	into the project's sprint	the following topics as they	the project should be able to identify what	should identify what feature	and will be tracking items related to		Concern			(PCG)	new items being
	planning processes and	relate to Sprint Planning and the	feature enhancements will be targeted for	enhancements will be targeted	Definition of Done, roadmap, resourcing,						tracked at a more
	adoption of generally	project's overall approach to	each planned release. This roadmap will help	for each Release and should	and backlog grooming in new, separate						granular level, this
	accepted agile best	agile software development: -	the project manage scope and productivity.	clearly map out the roadmap out	findings.						item has been
	practices.	IV&V acknowledges that the	Relatedly, the "definition done" is an	through the last Phase 3 release							closed.
		project is now planning three	important artifact to ensure that the project	in September 2020.Additionally,							
		sprints outs, however, it appears	is successful. Otherwise, the project will	the project should clearly define							
		that only a "high-level" sprint	struggle to prioritize requests/enhancements	"Done" to ensure the project							
		planning roadmap has been	and manage scope.	team is working towards the							
		produced, and it is unclear		same goal and increase							
		exactly how the project is		opportunities for success. Having							
		targeting features for each		a clear "definition of done" will							
		release through the end of Mod		help provide the project with							
		4 IV&V is not aware of how		guidance on how to stay within							
		the project is currently defining		scope.							
		"done" for Mod 3 and Mod									
		4Additionally, in the January									
		2020 reporting period, IV&V will									
		seek additional information and									
		visibility into the project's									
		processes specific to prioritizing									
		requests and how user stories in									
		TFS are tagged to features, as									
		well as the realignment of									
		project development and									
		configuration resources to									
2.00	12/31/2019 As a result of regression	complete the scope of Release R3.3 introduced a defect that	Thorough vetting and validation of	Pursuing additional formal	09/30/2022 - Regression testing was	Test Practice Validation	Issue	Medium	Open	Darren Macdonald	
2.00	testing not being	deprecated features in	regression test cases is necessary to prevent	training in AzureDevOps for test	successfully completed for R3.26 which was		10540		open		
	consistently performed,	1 ·	both defects and the deprecation of	automation at the earliest	promoted to production on 9/1/2022. There						
	production releases are		production functionality when a release is		were no post go-live bugs reported. A						
	breaking and/or		pushed live. When defects occur in	efforts to automate at least the 2							
	deprecating existing	IV&V that there are other	production, the project should follow a	primary regression test scripts.	9/2/2022 with ongoing training in progress						
	functionality in the		defined and repeatable process for	IV&V recommends DDD and	through R3.27. R3.28 remains the target						
	production	deprecated after a release,	determining the root cause of the problem.	CAMHD to develop a common	release for full implementation and						
	environment.	some of which are still being		and consistent approach across	execution of the test automation tool.						
		investigated. As of this report,		divisions for performing	08/31/2022 - Regression testing is currently						
		IV&V has not evaluated the		regression testing.	underway for R3.26 which is planned to be						
		project's root cause analysis		Determine if current regression	promoted to production on 9/1/2022. The						
		(RCA) process used to determine		testing timeframes are adequate	Project has published a plan for						
		why such functionality was		and if not, add more time to the	implementing the Tricentis tool which kicks-						
		deprecated but will discuss		pre-production regression test	off on 9/2/2022. The Tricentis						
		further with BHA in January		efforts for all release	Implementation Plan is detailed and						
		2020.		deployments.	comprehensive. Test automation is						
				Updating the regression test	expected to commence with R3.27 and full						
					integration (test automation and test result						
				system configuration.	tracking) is targeted for R3.28. IV&V will						
				Modifying release schedules to	continue to monitor the progress of the						
				allow for regression testing	Tricentis tool implementation.						
				timeframes	07/31/2022 - This high criticality finding						
					continues to be the most impactful issue						
				type to avoid unnecessary	affecting the Project. Helpdesk team						
				repetitive work being performed	members brought in to assist and support						
				in any given section of the solution.	the deployment team continue to improve						
1				Isolution.	their skills and experience with the last						

3.00	12/21/2010		N(0) ( La sur a d'a Da sur han 2010)		N/OV and a DUM and the	00/24/2020 11/01/12	Terrested VT	D:-I	Law	Classed	Daman Maadamald	DOM have
3.00	12/31/2019	Usage of open source JavaScript framework for	that the Calculator 3.0	Open source tools and frameworks offer	IV&V recommends BHA work to establish a reliable and	08/31/2020 - IV&V is unaware of any additional KT gaps being identified by DOH,	Targeted KT	Risk	Low	Closed	Darren Macdonald	RSM has successfully held
		development and	functionality is built in Vue.JS,	organizations great opportunities to build and configure customized solutions at lower	repeatable process for keeping	and as such, is closing this						several KT
			an open source JavaScript	costs than through software purchase or	abreast of communal updates	finding.07/31/2020 - The Project resolved						sessions for this
		Calculator 3.0 requires		licensing. However, open source tools and	and support opportunities for a	the majority of the outstanding Calculator						technology and
		BHA to take a proactive	relatively new, the open source	frameworks often do not come with support	new suite of tools -	3.0 defects during July which was						functionality, and
			support community is small.	models, other than those offered through	CompletedIV&V recommends	implemented in the mid-sprint release on						DOH staff have
			IV&V's concerns include: - The	the tool's community. Because of this, the		7/17/2020. The final Calculator 3.0						stated that it was
			availability of reliable support	organization bears the weight of seeking out	-	Knowledge Transfer session was conducted						well received.
			for Vue.JS - The project's	reliable help and support, as well as much	Calculator 3.0 via a suite of tools,	_						
			understanding of any known	take a proactive approach to security and	and determine what additional	identify and communicate any additional KT						
			vulnerabilities with Vue.JS, and	identifying any vulnerabilities in the tools.	skillsets, training, and/or	gaps to RSM during the month of August. If						
			development of a process to		resources are needed to support	no additional needs are identified, IV&V will						
			remain current on		BHA's long-term ownership of	close this finding. 06/30/2020 - The project						
			vulnerabilities discovered by the		Calculator 3.0 - Completed	continued to focus attention on the						
			support community The RSM			Calculator 3.0 defects during the month of						
			lead for Calculator 3.0 went on			June. RSM conducted another Calculator 3.0						
			extended parental leave in			Knowledge Transfer session on 6/26/2020						
			December 2019IV&V			and scheduled a final session for 7/17/2020.						
			acknowledges that BHA has			05/31/2020 - The project continued to focus	;					
			downloaded Vue.JS to start			attention on the Calculator 3.0 user stories						
			getting familiar with it.			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 planned for and IV&V will						
						continue to monitor this project component						
4.00	1/31/2020	Due to the project not	There have been several defects	A complete, up to date, and documented	IVV recommends documenting	12/31/2020 - IV&V has closed this issue as	Release/Deployment F	Issue	Medium	Closed	Darren Macdonald	
		following a detailed	pushed to production with	deployment script is needed to ensure the	deployment scripts for both the	the related recommendations below has						been addressed
		deployment script, the	Phase 3 releases. Some of the	repeatability and stability of DOH's	patch method and the full	been completed. A subsequent medium						and proposed
		project may continue to	defects introduced to	production deployments. Since there are	solution upgrade method. The	issue finding (#19) has been opened to						IV&V
		experience defects	•	currently two deployment types (patches	script(s) should be in the form of	address ongoing deployment processes and						recommendation
		related to deployment	down to environmental	and full solution upgrades), two scripts may	a step-by-step procedure that	technical execution issues. 11/30/2020 -						have been
		activities.	promotional activities. In these	be warranted. An embedded process and	walks through from start to finish							completed. A
			instances, the DEV and TEST	documented script will help ensure that	of the deployment process and	on 11/11/2020. Approximately nine (9) new						subsequent
			environments were not in sync	mistakes are minimized, and that	involve several technical staff to	defects were identified after the						finding #19 has
			with the production	functionality is not mistakenly deprecated	ensure staff availability to	deployment. Root causes are suspected to						been created to
			environment (missing business	when deployments take place.	accomplish these tasks when	be a combination of insufficient testing from						address on-going
			rules, missing components,		primary deployment personnel	a business perspective coupled with						deployment
			missing dependencies, etc.). IVV		are unavailable. Standardize the	deployment issues. A bulk record update						processes and
			is aware that DOH staff		content of all developer	task required as part of the implementation						technical
			shadowed RSM staff for all		deployment task notes, with a	was not included in the deployment,						execution issues.
			deployment releases during		goal of eliminating any potential	resulting in contacts being deprecated from						
			Phase 2 with RSM providing		ambiguity to the Deployment	the Circle of Support in Inspire. It is unclear						
			instruction and DOH staff		Team, resulting in a cleaner and	if any other deployment issues may have						
			physically executing the tasks		more repeatable set of	also contributed to the new defects.						
			and activitios via koyboard For		deployment processes and	Deployment corrections were applied in a mid sprint release on 11/27/2020. Based on						
			and activities via keyboard. For		instructions		1	1				
			Phase 3, it is unclear whether a		instructions.							
			Phase 3, it is unclear whether a complete, up to date, and		instructions.	the recurrence of this finding, IV&V has						
			Phase 3, it is unclear whether a complete, up to date, and documented deployment script,		instructions.	the recurrence of this finding, IV&V has changed this Risk to an Issue and will						
			Phase 3, it is unclear whether a complete, up to date, and documented deployment script, or deployment notes, are being		instructions.	the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved.						
			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		instructions.	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						
			Phase 3, it is unclear whether a complete, up to date, and documented deployment script, or deployment notes, are being		instructions.	the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved.						
			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		instructions.	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						

of Dor challed ability the go	nented 'Definition ne", which could nge the project's to fully achieve bals of Phase 3. documented 'Definition of Done' (DOD) for the BHA T 100 User Stories of for Pha Because of this, it is unclea proposed functionality/fea are prioritized for each spr and throughout Phase 3.	op goals that are important inputs for se 3. stakeholders to develop a Roadmap for r how 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.	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 2020IV&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.	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	Preliminary Concern			(PCG)	Definition of Done completed and socialized.
result backlo non-es	by grooming could in the project og having obsolete, stimated, and y defined user continues to grow. Current there are approximately 42 defects and requests, of will almost 200 have a status o	29     not ever be completed for any reason, they should be removed from the backlog to ensure its viability.       29     ensure its viability.       29     ensure its viability.       20     ensure its viability.	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 by the	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 3/31/2020. The estimation effort		Risk	Low	Closed		The project has demonstrated they are consistently grooming the backlog.

1/31/2020       The BHA Technical Team       The BHA Technical Team plays a       BHA needs, and should pursue, ald titonal Knowledge Transfer       Sprint Planning       Issue       High       Open       Darren Macdonalis         a dequate to meet the adequate to meet the needs of the project, needs of the project, needs of the project, project productivity.       responsibilities associated with the team's expected culteraries time is to the bandwidth, the project and plays a critical ream 's time is to the bandwidth, the project and plays a critical ream's time is to the bandwidth issue, in the project and plays a critical ream's time is to the project and plays a critical ream's time is to the bandwidth issue, in the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a cri	
adequate to meet the needs of the project, which could compromise project productivity.success. Currently, the success. Currently, the success. Currently, the valuable and scarce. If the Team's expected workload exceeds bandwidth, the project ould experience bottlenecks. Optimization of the BHA Technical Team have project productivity.secs. Currently, the responsibilities associated with workload exceeds bandwidth, the project ould experience bottlenecks. Optimization of the BHA Technical Team's time is to the project productivity.secs. Currently, the responsibilities associated with workload exceeds bandwidth, the project ould experience bottlenecks. Optimization of the BHA Technical Team's time is to the project and plays a critical role which includes increased which inc	
heeds of the project, which could compromise project productivity.	
which could compromise project productivity.	
project productivity.expanded beyond their collective available bandwidth. in the project's ability to hit performance which includes increased collaboration with key RSMcould experience bottlenecks. Optimization of the BHA Technical Team's time is to the bandwidth of the BHA Technical Team, either by adding resources through new hires, or vendordoubling the RSM staff over the final stretch of development. This is a very positive start 	
collective available bandwidth.of the BHA Technical Team's time is to the benefit of the project and plays a critical role addressing this bandwidth issue, which includes increased collaboration with key RSMof the BHA Technical Team's time is to the benefit of the project and plays a critical role targets and achieve the Phase 3 definition of collaboration with key RSMof the BHA Technical Team's time is to the benefit of the project's ability to hit performance targets and achieve the Phase 3 definition of collaboration with key RSMof the BHA Technical targets and achieve the Phase 3 definition of targets and achieve the Phase 3 definition of to resolve the Phase 3 definition of to resolve the Phase 3 definition of the Project should assess, whereof development. This is a very positive start to resolving the overall technical staffing issue. IV&V will continue to monitor moving forward. 08/31/2022 - Although BHAin the project's ability to hit performance the Project should assess, where	
IV&V notes that BHA began addressing this bandwidth issuebenefit of the project and plays a critical role in the project's ability to hit performance targets and achieve the Phase 3 definition of collaboration with key RSMTeam, either by adding resources through new hires, or vendor through new hires, or vendor torracts.to resolving the overall technical staffing issue. IV&V will continue to monitor moving forward. 08/31/2022 - Although BHAEIVAV notes that BHA began addressing this bandwidth issue which includes increased collaboration with key RSMbenefit of the project and plays a critical role the project should assess, where The Project should assess, whereto resolving the overall technical staffing issue. IV&V will continue to monitor moving forward. 08/31/2022 - Although BHAE	
addressing this bandwidth issue, in the project's ability to hit performance which includes increased collaboration with key RSM       in the project's ability to hit performance targets and achieve the Phase 3 definition of contracts.       issue. IV&V will continue to monitor moving forward. 08/31/2022 - Although BHA         Image: Contract in the project in the	
which includes increased     targets and achieve the Phase 3 definition of collaboration with key RSM     contracts.     forward. 08/31/2022 - Although BHA       Image: Collaboration with key RSM     done.     The Project should assess, where     leadership continued to meet during August	
collaboration with key RSM done. The Project should assess, where leadership continued to meet during August	
resources, and are working to possible, if there are to address the Project's resource shortages	
potentially change the structure responsibilities of the BHA and develop a mitigation plan to address	
of the Technical Team. Technical Team that can be this issue, no measurable progress was	
reassigned to other project staff. attained. A critical resource change for the	
The Project should evaluate current RSM Solutions Architect was	
where process inefficiencies can announced during August, which only	
be addressed and streamlined to serves to compound the existing resource	
possibly free up the BHA shortage issue and potentially impact	
Technical Team's availability. verall quality. IV&V will continue to	
The Project should consider the monitor this high criticality issue.	
formation of a first level resource 07/31/2022 - This high criticality finding	
team to triage/address continues to be the most impactful issue	
production defects in a timely affecting the Project. Helpdesk team	
manner, without disrupting new members brought in to assist and support	
development work. the deployment team continue to improve	
The Project should consider their skills and experience with the last	
procurement of an online training couple of releases and the recent mid-sprint	
8.00 1/31/2020 The lack of a Product BHA does not have a single, A Roadmap is a tool that guides an agile IV&V understands that the 02/29/2020 - In February, the project Management Preliminary N/A Closed Ramesh, Vijaya	Product Roadmap
Roadmap that provides definitive Product Roadmap for project on what functionalities/features are Project is in the process of further defined the Phase 3 Product Concern (PCG)	aligned with
direction on the top Phase 3 that addresses the targeted to be built and released and when creating a Short Term; Mid Term, Roadmap and aligned it with the Phase 3	Definition of Done
product features to be functionalities, features, and / users can have access to these and Long Term Roadmap. IV&V Definition of Done. IV&V recommends the	
delivered in the near or enhancements to be built in functionalities. Without a defined Roadmap recommends the Project project continually review and update both	
term (next 3 months), order to fully address BHA's the project may not be able to effectively complete this by the end of the Product Roadmap and Definition of	
midterm, and long term business needs. IV&V met with scope the top features to be released within February 2020 to understand if Done, adjusting as necessary. IV&V will	
could have an adverse RSM and BHA on this topic in Phase 3 and ensure the correct resources are there are any constraints continue to monitor the project's adherence	
impact on the Project's January, and notes that the available to accomplish the goal of each (resources, budget) that may to the Product Roadmap and progress	
scope and schedule. project is actively working to sprint and the Phase. hinder the project from releasing against it but is closing out this concern as	
address this concern. the needed of the February report.	
functionalities/features targeted	
for Phase 3 as documented in the	
Definition of Done.	

## FINAL IVV Findings Log Sep 2022 v1

9.00	3/31/2020	The COVID-19 pandemic	On 3/23/2020, the Governor	DOH stakeholder participation in key	- IV&V recommends BHA to ramp	04/30/2021 - The Project continues to	Project Management	Risk	Low	Closed	Darren Macdonald	The Project
			issued a "stay at home, work	activities could be significantly hindered, not		maintain its ability to operate with staff						continues to
			from home order" that has	only by required remote work by DOH and SI		working remotely, effectively overcoming						maintain its abilit
		hinder project activities	reduced state departments	staff, but also by the flood of activities that	work devices and tools and make	the "stay at home, work from home order"						to operate with
		and negatively impact	ability to be fully functional as	could occur as the department could become	every effort to help them to	that reduced BHA's ability to be fully						staff working
		- · ·	the large majority of state	overwhelmed processing and providing		functional in the office. The potential DDD						remotely,
				services due to the resulting economic		and CAMHD budget challenges reported in						effectively
		0	from home/remotely at least	impacts to citizens. Some stakeholders may	MSTeams/Skype) - Completed-	March were also overcome during April,						overcoming the
			until the end of April and some	be unable (due to stricter shutdown policies)		providing fiscal relief to BHA. As such, IV&V						"stay at home,
			offices may be completely shut	or unwilling to perform these activities	and DOH create a detailed,	is closing this finding.03/31/2021 - The						work from home
			down until that time as well.	during this chaotic time. Planned SI on-site	documented risk mitigation	Project continued to maintain its ability to						order" that
			Unclear if the order will extend	visits will also likely be changed to remote	-	operate with staff working remotely, while						reduced BHA's
			beyond that date.	which could reduce the effectiveness of their	regularly and revised to address	COVID-related responsibilities continue to						ability to be fully
				project activities. Going forward most if not	the current state of the COVID-19							functional in the
				all project activities will more than likely be	threat and related impacts over	announced that potential furloughs and/or						office. The
				conducted remotely until this crisis passes.	the next 6 to 12 months - In	layoffs of State workers will no longer be						potential DDD and
					Progress - IV&V recommends	necessary based on the signing of the						CAMHD budget
					updates to the OCM Plan to	American Rescue Plan. IV&V has reduced						challenges
						the priority of this finding from Medium to						reported in March
					updates to planned activities to	Low and will continue to monitor moving						were also
					aid the organization through this	forward. 02/28/2021 - As reported in						overcome during
						January, there were no substantive changes						April, providing
						observed for this finding in February. The						fiscal relief to
						Project continued to maintain its ability to						BHA.
						operate with staff working remotely. IV&V						5
						continues to note that there may be						
						potential future budget actions by the						
						Governor due to projected State budget						
10.00	5/31/2020	The lack of design	There were a couple incidents	If all requirements within a functional design		07/31/2020 - The Project continues to to	Sprint Planning	Preliminary	N/A	Closed	Darren Macdonald	This process
		U	during May where the code	are not met, users could experience the	commenced) conducting	spend additional time on the designs of		Concern				change to spend
			promoted to production did not	inability to complete required processes,	technical design reviews for	complex user stories during June to ensure						extra time on the
		the promotion of	fully meet all requirements of	resulting in incomplete data collection and	complex user stories prior to	requirements and user story components						design of complex
			associated user stories for	potential issues in service delivery.	development to ensure designs	were fully captured in design sessions. This						user stories to
			CAMHD Progress Notes. The	,	are complete and all	process change has proven successful, and						ensure that all
			components that were			as such, IV&V recommends closing this						requirements are
			developed and implemented		design are met. IV&V observed	concern.06/30/2020 - IV&V acknowledges						represented has
			were functional, however the		this activity has been	the Project Team continued to spend						proven to be
			effort was complicated by		implemented by DOH in the	additional time on the designs of complex						successful.
			additional requirements being		month of May.	user stories during June to ensure						
			added during development that		,	requirements and user story components						
			necessitated additional changes			were fully captured in design sessions. IV&V						
			to the design. IV&V will continue			will continue to monitor in July.						
			to monitor the design review									
			activity for large user stories									
			moving forward									
					I	L	I			1	1	L

11.00	7/31/2020 DDD Project resource	The user adoption and training	The significance and impact of OCM car	IV/8// recommonds that BUIA does	02/21/2021 The DDD staff who've have	Project Management	Risk	N/A	Closed	Darren Macdonald	
11.00	shortages may have a	The user adoption and training efforts are hampered based on	The significance and impact of OCM can never be understated. It is clearly a best		03/31/2021 - The DDD staff who've been part of the review process are pleased with	Project Management	RISK	IN/A	Closed	Darren Macdonald	who've been part
	continued negative	staffing shortages. DDD has	practice that best that all staff utilize the		the quality of the videos produced within						of the review
	effect on user adoption,	stated that its users have been	solution in the same manner. Variations in		the toolset and have determined that the						process are
	training, and overall	found to not be utilizing the	how the system is utilized by its users is likely		toolset is a very helpful training tool for DDD						pleased with the
	OCM activities.	system to its fullest extent in	to cause variations in data collection and		staff and providers. As such, IV&V is closing						quality of the
		terms of system workflow,	analytical efforts using the data collected.	-	this finding.02/28/2021 - Training videos						videos produced
		provide their insights and input,		and adding staff as needed to	using the new toolset were nearing						within the toolse
		follow up, etc. To assist in OCM		support OCM and technical	completion by the end of February. DOH is						and have
		activities, DDD has defined the		efforts. IV&V recommends DOH	currently reviewing the drafts of the second						determined that
		need for an interactive training		perform a detailed investigation	set of videos and work is progressing well.						the toolset is a
		tool to support Inspire.		of the specific variations as to	IV&V will continue to monitor this finding						very helpful
				how the system is currently being	until DDD has had sufficient time to						training tool for
				used by the user community.	determine the overall quality of the training						DDD staff and
				Consequently, users would be	work products and whether the new toolset						providers.
				provided with constructive	is addressing user adoption and staffing						
				feedback on how the system	shortages for these task efforts. 01/31/2021						
				should be utilized where gaps	<ul> <li>Training design activities using the</li> </ul>						
				exist. This will likely lead to	interactive training toolset commenced in						
				additional refresher training to	January and has attained good progress. The						
				close identified system	use of this tool is expected to provide some						
				knowledge gaps.	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						
					finding12/31/2020 - The contract to procure						
					the interactive training toolset for						
2.00	8/31/2020 PII/PHI data in non-		Failure to secure PII/PHI data leaves the		09/30/2022 - The Security Assessment is	Project Management	Issue	Medium	Open	Darren Macdonald	
	production	PII/PHI data currently exist in a	organization open to highly targeted social	limiting the volume of	pending approval by the ASO. RSM is						
	environments	non-production environment to			planning to address this issue as part of the						
		meet project needs. Generally	and loss of client trust and loyalty.	and access necessary to support	backlog scope for R3.28. IV&V will continue						
		this is not a good security			to monitor this medium criticality issue.						
		practice as the presence of		help minimize this risk.	08/31/2022 - As reported in previous						
		PII/PHI data in non-production		IV&V recommends if production	months, there were no substantive changes						
		environments increases the		data is necessary in any non-	to this finding identified in August. The						
		potential for theft, loss or			Security Assessment will commence after						
		exposure thus increasing the		DOH establishes a plan for	the associated contracts are executed and it						
		organization's risk. Failure to			is unclear when this will occur. BHA plans to						
		secure PII/PHI data leaves the		of the PII/PHI data, including the potential masking of data.	work with RSM to consider solutions used on other projects for managing the PII/PHI						
		organization open to highly targeted social engineering		IV&V recommends that DOH	data in non-production environments. IV&V						
		attacks, heavy regulatory fines,		mitigates this finding by	will continue to monitor this medium						
		and loss of client trust and		minimizing and/or masking	criticality issue.						
		loyalty.			07/31/2022 - As reported in previous						
1				provident accordinated note	s, s2, 2022 As reported in previous		1		1		
		- //		production environments	months, there were no substantive changes						
				production environments.	months, there were no substantive changes						
				production environments.	to this finding identified during July. The						
				production environments.	to this finding identified during July. The Security Assessment will commence after						
				production environments.	to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it						
				production environments.	to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it is unclear when this will occur. BHA plans to						
				production environments.	to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it is unclear when this will occur. BHA plans to work with RSM to seek proposed solutions						
				production environments.	to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it is unclear when this will occur. BHA plans to work with RSM to seek proposed solutions used on other projects for managing the						
				production environments.	to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it is unclear when this will occur. BHA plans to work with RSM to seek proposed solutions used on other projects for managing the PII/PHI data in non-production						
				production environments.	to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it is unclear when this will occur. BHA plans to work with RSM to seek proposed solutions used on other projects for managing the						

13.00	8/31/2020 Project not able to	The Project recently deployed	The unavailability of activity logs may	IV&V recommends that DHS	03/31/2021 - Per BHA, this finding is no	Release/Deployment P	Risk	N/A	Closed	Darren Macdonald	Finding has been
	access Activity Logs	audit log functionality into	hamper the investigation of future security	continues to collaborate with	longer an issue and recommends closure.						resolved.
	, , ,	production whereby these logs	breaches.	Microsoft until the activity	IV&V is closing this finding.02/28/2021 -						
		can be accessed and exported as		logging feature is available in all	BHA continued this effort in February						
		needed. However, IV&V was		BHA non-production	despite a workaround being necessary from						
		made aware access to activity		environments.	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						
		from Microsoft in the public			completed. IV&V will continue to monitor						
		sector environment until the			this finding. (Per Kamu, this status						
		end of September 2020. The			information did not correctly reflect the						
		unavailability of these specific			issue as the layering issue has no relation to						
		activity logs could potentially			the activity logs.)01/31/2021 - The						
		hamper the investigation of			implementation effort for this activity						
		future security events until			moved forward in January. Some of the						
		implemented.			entities will have activity logging completed						
		Implemented.									
					in 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						
14.00	9/30/2020 Due to multiple quality	System defects identified in	The identified quality issues have negatively	Evaluate existing project staff	09/30/2022 - R3.26 was deployed to	Project Management	Issue	Medium	Open	Darren Macdonald	
	concerns, the project	August that affected claims	affected DOH billing processes and DOH has	skills and experience level to	production on 9/1/2022. No post-						
	may continue to face	were due to multi-faceted	stated these are the most impactful defects	ensure they meet BHA support	deployment defects were identified						
	impactful system	quality issues were individually	discovered to date.	requirements.	following this release which is the first						
	defects.	addressed during this reporting		Perform revenue neutrality fiscal	occurrence in at least the last five releases.						
		period. IV&V notes that there is		balance testing on a quarterly	IV&V will continue to monitor this medium						
		one remaining defect still being		basis to ensure revenues are as	exposure issue.						
		evaluated that affects a limited		expected.	08/31/2022 - A formal Root Cause Analysis						
		number of claims. Overall, the		Assign dedicated resources to	(RCA) was conducted in early August for						
		Project Team has responded		provide oversight of CAMHD	R3.25 critical defects. Most of the critical						
		with a commitment to increase		Fiscal Processes.	defects were attributed to deployment						
		project quality and is in the		Monitor implemented	issues which require additional analysis to						
		process of identifying		improvements for effectiveness.	determine the source of these issues. IV&V						
		improvements to associated			will continue to monitor this medium						
		testing processes. These		RCA in collaboration with RSM	criticality finding.						
		currently include:Performing		after all future release	07/31/2022 - As with the previous release,						
		Revenue Neutrality Testing to			the Project encountered quality issues as						
		ensure expected revenue		improvement.	five (5) post-production defects were						
		streams are largely unchanged		BHA and RSM to collaborate on	identified for R3.25 which was deployed on						
		from one period to the next.		the necessary revisions to the	7/21/2022. A formal Root Case Analysis						
		Conducting System Integration		submitted design deliverables to	(RCA) is planned for the first week in August						
		Testing, User Acceptance		increase level of detail and	and it remains uncertain if coding,						
		LICATUS, USELAUCEULDICE	1		deployment, or other quality issues were						
		- ·		quality							
		Testing, Performance Testing,		quality.							
		Testing, Performance Testing, and Regression Testing for		Perform typical project testing	the potential cause for these defects. To						
		Testing, Performance Testing, and Regression Testing for Release 3.10. IV&V will		Perform typical project testing including System Integration,	the potential cause for these defects. To address these defects, two of the critical						
		Testing, Performance Testing, and Regression Testing for Release 3.10. IV&V will continue to monitor the testing		Perform typical project testing including System Integration, User Acceptance, Performance,	the potential cause for these defects. To address these defects, two of the critical items was deployed in a Mid Sprint						
		Testing, Performance Testing, and Regression Testing for Release 3.10. IV&V will		Perform typical project testing including System Integration,	the potential cause for these defects. To address these defects, two of the critical						

15.00	10/5/2020		Default	Default		Terrested KT	Destination	N/A	Closed	Demon Mandamalal	The survey is stated as a
15.00	10/5/2020 Usage of Semantics and IDM for development		Default		01/31/2021 - The project has made great	Targeted KT	Preliminary	IN/A	Closed	Darren Macdonald	
		obtain more targeted			strides addressing this concern. A		Concern				made good
	and ongoing	knowledge transfer of both the			Semantics Layer KT session was conducted						progress
	maintenance of the	Semantics Reporting and IDM			on 1/29/21 and multiple IDM and Semantic						establishing and
	system requires BHA to	tools. IV&V will continue to			Layer sessions has been scheduled in						initial execution of
	take a proactive	monitor this concern.			February. IV&V is closing this finding as we						the IDM and
	approach to support of				no longer view this item as a						Semantics Layer
	these tools.				concern.12/31/2020 - IV&V is aware that an						KT plan.
					overview of the Semantics Layer KT session						
					was held on 12/16/20. The planning effort						
					will result in additional Semantic Layer and						
					IDM KT sessions in the coming months.						
					IV&V will continue to monitor this						
					finding.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						
16.00	10/27/2020 The bandwidth of	CAMHD has been provided with	CAMDH Leadership participation in key		06/30/2021 - As anticipated, the CAMHD	Project Management	Risk	N/A	Closed	Darren Macdonald	CAMHD
10.00	CAMHD Leadership is						KISK	N/A	Closed		Leadership time
	being hampered by	an approval to commence	activities could be significantly hindered by the flood of activities that could occur as the	for opportunities to augment the	Leadership time dedicated to the Project has returned to normal and expected levels. As						dedicated to the
	<b>.</b>				-						
	planning tasks and		department assesses expansion of this	Phase 4 and M&O work.	such, IV&V is closing this finding.						project has
	activities for assessing	& HSH. CAMHD Leadership	project to the balance of divisions.		05/31/2021 - As anticipated, CAMHD						returned to
	project expansion to	currently spends 25% of their			Leadership time spent on efforts outside of						normal.
	other divisions.	available time dedicated to this			the Inspire Project reduced during May. This						
		planning effort.			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						
				1	April but has decreased at the end of the	1	1	1	1		
					April but has decreased at the end of the					1	
					month. Approximately 60-70% of						
					month. Approximately 60-70% of Leadership time was spent on Phase 4						
					month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new						
					month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. 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						
					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						
					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						
					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						
					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						
					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						

17.00	11/20/2020	Due to sea distant		Default	D(O) ( as a second s	00/24/2024 The second	Deleges /Depleyment D	1	N1/A	Classed	Demon Mereleneld	The sector of
17.00			The IDM and Semantic layer efforts have experienced several	Default	IV&V recommends the project to	08/31/2021 -The number of issues requiring assistance from Microsoft continues to	Release/Deployment P	Issue	N/A	Closed	Darren Macdonald	interactions
			delays attributable to issues		continue to monitor the status of	remain limited, and as such, IV&V is closing						needed with
			escalated to Microsoft. The		-							Microsoft remains
			issues have ranged from		to escalate the priority of these tickets as deemed necessary.	this finding. 07/31/2021 - While the number of issues requiring assistance from						low and
		-	administrative / communication		lickets as deemed necessary.	Microsoft remains limited, interactions with						manageable. This
			(entering issues into the			Microsoft are increasing again due to the						condition is no
			Commercial support instance vs			interface functionality planned for						longer impeding
			the Government Cloud support			implementation in the current and						project progress.
			instance), to several key			remaining DD&I releases. The FHIR API						project progress.
			technical issues requiring			interface has required multiple interactions						
			assistance to resolve. To date,			with Microsoft that have resulted in						
			these support needs have added			unplanned schedule slippages for the FHIR						
			over a month to the IDM and			API implementation. IV&V will continue to						
			Semantic Layer project			monitor this finding. 06/30/2021 - The						
			schedules.			number of issues requiring assistance from						
			serieddiesi			Microsoft continues to be low with only two						
						known items open. As such, IV&V is						
						reducing the priority of this finding to low						
						and will continue to monitor.05/31/2021 -						
						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.						
						04/30/2021 - BHA continues to work with						
						Microsoft on technical issues as they arise in						
						the Government Community Cloud (GCC)						
18.00	12/31/2020	Due to on-going	There have been several defects	Repeatable documented release and	Ensure there are adequate and	09/30/2022 - The R3.26 release was	Release/Deployment P	Issue	High	Open	Darren Macdonald	
		deployment processes	pushed to production with	deployment will help ensure that mistakes	qualified resources to support the	deployed to production on 9/1/2022, using						
		and technical execution	Phase 3 releases. Some of the	are minimized, and that functionality is not	current deployment processes.	the patch deployment methods. The						
	li	issues, the Project may	defects introduced to	mistakenly deprecated when deployments	This may require the support	upcoming R3.27 and R3.28 releases will						
		continue to encounter	production have been narrowed	take place.	from RSM resources to provide	require full solution upgrades (FSU) for						
		defects and challenges	down to environmental		assistance and knowledge	deployment based on their entity contents.						
	li	in meeting projected	promotional activities. In these		transfer for some of the more	FSUs have historically been quite						
	1	timelines for production	instances, the DEV and TEST		complex deployment	challenging for the project, inferring that						
	i	and non-production	environments were not in sync		components.	this may increase risk to these releases. To						
		deployments.	with the production		Work in collaboration with RSM	help mitigate the risk, BHA continues to						
			environment (missing business		to establish a transition plan for	collaborate with Microsoft and RSM on						
			rules, missing components,		DOH to assume all deployment	deployment best practices. While BHA						
			missing dependencies, etc.). IVV		activities to ensure complete	continues to increase their learning, they						
			is aware that DOH staff		ownership of these processes.	acknowledge that there are still several						
			shadowed RSM staff for all		This should assist with	unknowns in terms of applying those						
			deployment releases during		consistency in approach and	practices. The team's knowledge gaps for						
			Phase 2 with RSM providing		execution going forward.	repeatable deployment activities are not						
			instruction and DOH staff			fully understood. The R3.27 FSU was						
			physically executing the tasks		on best practices that BHA could	successfully moved to the test environment						
			and activities via keyboard. For		employ to support deployment.	prior to the end of September, and the						
			Phase 3, it is unclear whether a		Request the assistance of the	production promotion is planned for mid-						
			complete, up to date, and		RSM Solution Architect in	October. IV&V will continue to monitor this						
			documented deployment script,		reviewing and correcting issues	high exposure issue.						
			or deployment notes, are being		associated with consistency of	08/31/2022 - The current R3.26 release was						
			utilized by BHA for deployment		the configurations across	planned to be a Full Solution Upgrade (FSU)						
			activities.		environments, ensuring that	but instead the technical team has again						
					the test environment is capable	pivoted to the use of patch deployments.						
	1				of testing ALL functions of any	The project is currently planning to promote						

19.00	3/28/2021 The pending RSM contract expiration will require BHA to perform transition of the D365 solution to the State prior to contract end.	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	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.	ensure that DOH has the knowledge, skills, and capabilities to perform all aspects of the project prior to September 2021. If the knowledge transfer takes more time than planned, consider developing, testing, and promoting less releases in the summer months as the transition off of vendor support approaches.	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.	•	Preliminary Concern	N/A	Closed	The RSM amendments were fully executed in May 2021.
20.00	4/30/2021 The DDD Project Manager will be on leave and unavailable to the project starting in May.	duties on behalf of DDD and her absence may cause an increased level of risk to the project. DDD has commenced planning efforts	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.	continue to look for opportunities to augment the existing technical staff in order to fully support current DDI project work.2) IV&V recommends DDD to consider augmenting their current PM/Business staff in order to allow their technical staff to focus on technical duties.	08/31/2021 - The DDD Project Manager returned from her absence, alleviating the DDD technical staff bandwidth/workload challenges. IV&V is closing this finding.07/31/2021 - The DDD technical staff continued to face bandwidth/workload challenges during the month of July. Fortunately, the DDD Project Manager is scheduled to return to work on 8/2/2021 allowing the technical staff to return fully to their technical responsibilities.06/30/2021 - The absence of the DDD Project Manager continues to cause bandwidth/workload challenges for DDD technical staff. Time available for typical DDD CRM assignments was limited in June due to this resource constraint. IV&V has promoted this finding from a Preliminary Concern to a Medium criticality issue and will continue to monitor. 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	Issue	N/A	Closed	The DDD Project Manager has returned from her leave, fully mitigating this issue.

21 00	6/20/2021	The continued we have of	Deleges defeat matrice for under a d	Deduce the energy of south	00/20/2022 The defect reserves (1102	Drojoct Management	lagua	Modium	Onon	Daman Macdanalal	
21.00	6/30/2021 Unplanned rework may	The continued volume of	Release defect metrics for unplanned rework		09/30/2022 - The defect percentage of USPs	Project Wanagement	Issue	Medium	Open	Darren Macdonald	
	have an impact on	unplanned rework may have an	has been 30-40% of the total USPs for the	rework by continuing to focus on	deployed to production climbed again in						
	delivering DDI	impact on delivering planned	last few releases.	quality improvement measures.	September. R3.26 had an estimated velocity						
				Strive for defect performance	of 90 USPs, and 77 USPs were promoted to						
	of the DDI period.	possible DDI releases remaining		metric not to exceed 20% of all	production. Thirty-two percent (32%) of all						
		for completion.		user story points in any given	USPs in R3.26 were attributable to defects,						
				release.	while 68% of the total USPs were associated						
					with planned user stories and requests. This						
					September metric falls short of the target of						
					no more than 20% of the total USPs						
					promoted during the month. IV&V will						
					continue to monitor this medium criticality						
					finding.						
					08/31/2022 - There were no planned						
					releases for the month of August and						
					consequently no velocity or defect metrics						
					to report this month. IV&V will report out						
					these metrics in our September status						
					report.						
					07/31/2022 - R3.25 was deployed on						
					07/21/2022 and the associated defect						
					percentage significantly improved from						
					previous releases. The percentage dropped						
					to 15%, well within the target of 20%. IV&V						
					will continue to monitor this medium						
					criticality finding.						
					06/30/2022 - The defect percentages for						
					R3.24 were improved in June; however, the						
22.00	7/30/2021 The project schedules	The FHIR interface and CAFAS	Weekly RSM Status Report	Extend the current DDI timeframe	09/30/2022 - 'Big Boulder' prioritized	Project Management	Issue	High	Open	Darren Macdonald	
	for 'big boulder'	interface are currently at risk of		to allow for the completion of	features/functionality implementation						
	interface functionality	not making the planned R3.17		'big boulder' interfaces	schedules continued to slide and change						
	development are	release. The Single Sign on		functionality development.	priority during September. While staffing						
	slipping.				priority during September. While starting						
		components of the HHIE		BHA to add more resources to	was increased, velocity fell far short of						
		components of the HHIE interface are also currently at		BHA to add more resources to support the development of "big							
					was increased, velocity fell far short of						
		interface are also currently at		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project						
		interface are also currently at risk of not making the planned		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however,						
		interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total						
		interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to						
		interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional						
		interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the						
		interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the project's requirements and expectations. 08/31/2022 - The Project spent a significant						
		interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the project's requirements and expectations.						
		interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder' interfaces,		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the project's requirements and expectations. 08/31/2022 - The Project spent a significant amount of time in August assessing and grooming the backlog to determine if user						
		interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder' interfaces, including identification of the		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the project's requirements and expectations. 08/31/2022 - The Project spent a significant amount of time in August assessing and grooming the backlog to determine if user stories for CAMHD, DDD, or both divisions						
		interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the project's requirements and expectations. 08/31/2022 - The Project spent a significant amount of time in August assessing and grooming the backlog to determine if user stories for CAMHD, DDD, or both divisions are accurately reflected and deemed						
		interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the		support the development of "big	was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the project's requirements and expectations. 08/31/2022 - The Project spent a significant amount of time in August assessing and grooming the backlog to determine if user stories for CAMHD, DDD, or both divisions are accurately reflected and deemed executable and ready for project team						
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## FINAL IVV Findings Log Sep 2022 v1

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23.00	7/31/2021 The current DDI period		Existing contractual agreements.	Obtain IAPDU approval from	02/28/2022 - The IAPDU was approved by	Project Management	Issue	Low	Closed	Darren Macdonald	
	expires at the end of	Model shows a planned		CMS.	Federal partners in early February, which						
	December 2021 which	reduction in RSM resources			extended the DD&I effort through October						
	will require RSM to	support starting in September			2022. Transition from RSM will not be						
	transition of the D365	2021 through December 2021.			required until approximately August 2022.						
	solution to the State	Prior to this timeframe, BHA			Based on the extended time being available						
	prior to contract end.	should commence the			for transition efforts, IV&V is closing this						
		development of a transition plan			finding.						
		to ensure the appropriate			01/31/2022 - There were no substantive						
		replacement State resources are			changes to this finding observed during						
		identified/secured and the			January as BHA continues to pursue CMS						
		necessary knowledge transfer			Federal funding approval for extending						
		sessions are planned and			DD&I through October 2022 followed by						
		executed with RSM. BHA will			M&O through September 2024. IV&V will						
		need to be sure they are ready			continue to monitor this finding until						
		to take on the development of			Federal funding approved.						
		user stories, testing,			12/31/2021 - There were no substantive						
					changes to this finding observed during						
		deployment, and the support and maintenance of the entire			5 5						
					December as BHA continues to pursue CMS						
		system by the end of the DDI			Federal funding approval for extending						
		period (December 2021).			DD&I through October 2022 followed by						
					M&O through September 2024. IV&V will						
					continue to monitor this finding until						
					Federal funding approved.						
					11/30/2021 - There were no substantive						
					changes to this finding observed during						
					November. In late October, PAC approved						
					the funding request for extending DD&I						
24.00	10/29/2021 The R3.19 Solution	Solution upgrades are essential	Daily Scrum Reporting	Ensure there are adequate and	11/30/2021 - R3.19 was promoted to	Project Management	Issue	High	Closed	Darren Macdonald	Technical issue
	Upgrade technical issues	for keeping the system current		qualified resources to support the	production as an FSU on 11/14/2021 and						resolved and were
	are delaying the	in order to gain access to new		current Solution Upgrade	access to the development and test						attributed to the
	implementation of the	features that enhance		processes. This may require the	environments was again restored. Because						following:
	release and the ability	productivity, eliminate		support from RSM resources to	the solution upgrade was the first in five (5)						<ul> <li>Import of</li> </ul>
	for staff to develop and	bottlenecks and govern sensitive		provide assistance and	releases, the deployment process took						solution taking 1-2
	test code.	information. The current R3.19		knowledge transfer.	approximately 12 hours. This issue did have						hours, timed out
		solution upgrade work efforts		As appropriate, consult with RSM	an impact both on the amount of DDI					· · · · · · · · · · · · · · · · · · ·	
		that includes patches for 5								1	in PROD, so had to
				on best practices that BHA could	functionality (reduced) included in						in PROD, so had to restore and then
	1	releases (R3.15-R3.19) is causing			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						restore and then
		releases (R3.15-R3.19) is causing technical issues. As a result.		employ to support the Solution	downstream releases and cost implications.						restore and then restart from a
		technical issues. As a result,			downstream releases and cost implications. IV&V has closed this finding, as it was						restore and then restart from a previous point in
		technical issues. As a result, R3.19+ development and testing		employ to support the Solution	downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on						restore and then restart from a previous point in time backup
		technical issues. As a result, R3.19+ development and testing work is hampered until these		employ to support the Solution	downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021.						restore and then restart from a previous point in time backup • Errors are vague
		technical issues. As a result, R3.19+ development and testing		employ to support the Solution	downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19						restore and then restart from a previous point in time backup • Errors are vague – sometimes
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25.00	6/30/2022 The lack of a formal project governance structure is impeding decision-making procedures and overall leadership cohesiveness.	governance can lead to: •Untimely and/or uninformed	The strategic goals and objectives of CAMHD and DDD differ but both divisions need equal and fair representation of how work is being prioritized and performed.	governance structure to allow CAMHD, DDD, and other divisions to 1) have a single point of accountability, 2) ensure the right	governance process for the project. IV&V will continue to monitor the governance activities. 08/31/2022 - A Project Charter has been developed but it is unclear to IV&V when it will be approved by the Executive Steering		Issue	Medium	Work In Progress	Vic Dudoit	
26.00	7/31/2022 The inability for BHA staff to work remotely is decreasing productivity and causing morale issues amongst team members.	Project team members have reported decreased productivity and there is a strong likelihood of the Project losing team members due to their inability to work remotely. This is evidenced by a current Help Desk employee retiring early and citing this as the reason. The Department may consider granting remote work to improve productivity and help increase morale to help ensure the existing short-staffed issue is not further exacerbated.	Project team members have reported decreased productivity and there is a strong likelihood of the Project losing team members due to their inability to work remotely. This is evidenced by a current Help Desk employee retiring early and citing this as the reason.	The Department may consider granting remote work to improve productivity and help increase morale to help ensure the existing short-staffed issue is not further exacerbated.		Project Management	Preliminary Concern	N/A	Open	Vic Dudoit	
27.00	8/31/2022 The current DDI period expires at the end of October 2022 which will require RSM to transition the D365 solution to the State prior to contract end.	Efforts to submit an IAPDU to pursue CMS Federal funding approval for extending DD&I through May 2023 have been stalled as a result of claims invoicing discrepancies.	DHS/MQD identified discrepancies with invoicing BHA claims which they are reconciling prior to the submission of an IAPDU.	DHS to reconcile current claims invoicing discrepancies.	09/30/2022 - Efforts to submit an IAPDU to pursue CMS Federal funding approval for extending DD&I through May 2023 have progressed in September and BHA plans on submitting the IAPDU to CMS in early October. If the IAPDU is not approved by the end of October, the project will be at major risk.	Project Management	Risk	High	Open	Vic Dudoit	

28.00	9/30/2022	The DDD Product Owner	The absence of the current DDD	DDD Product Owner announced her	IV&V recommends a formal	Project Management	Issue	High	Open	Vic Dudoit	
		resigned her position in	Product Owner will cause major	departure in September 2022 for early	transition plan be fully defined						
		September and will	challenges for DDD as she wore	October.	and executed prior to the DDD						
		transition off the project	multiple hats and is responsible	DDD Product Owner wears multiple hats	Product Owner departure.						
		in early October.	for many aspects of the day-to-	supporting both business and administrative	IV&V recommends DDD seek						
			day work from both an	functions.	(internal/external) multiple staff						
			administrative and business		to replace the DDD Product						
			perspective.		Owner for each role served.						
					IV&V recommends DDD consider						
					soliciting contracted staff to fill						
					the immediate gaps with the DDD						
					Product Owner's departure.						
					-						