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September 15, 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,

18 much

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

August 1 – August 31, 2022

Final submitted: September 12, 2022



**Solutions that Matter** 

# Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





# **Executive Summary**

There were no planned production deployments in August. As the 7/21/22 release (R3.25) resulted in 5 critical defects, the Project performed a formal Root Cause Analysis (RCA) in early August, which found that most of the critical defects were due to deployment issues. Additional analysis is required to verify the true source of these issues and to validate the categorization of these issues are accurate.

The Project Team continued to aggressively work towards completing the backlog review in August in order to quantify development work (cost and duration) in the upcoming IAPDU. IV&V opened a new high risk to address the barriers/delays in submitting the IAPDU to request additional funding and extend the DD&I period.

The resource shortage continues to negatively impact the project, which was compounded with the transitioning of the current RSM Solution Architect and further adding risk to the Project.

Jun	Jul	Aug	Category	IV&V Observations
R         Sprint         manageable, and feasible to implement within the development timeframes. The submission of an IAPDU to extend the current DD&I period continues to be delated.		The Project continued to aggressively finalize the backlog to ensure it is current, manageable, and feasible to implement within the development timeframes. The submission of an IAPDU to extend the current DD&I period continues to be delayed. The criticality rating for this category remains Red (high) for the August reporting period.		
0	G G G User Story Green (low criticality) for the August reporting period. IV&V will continue to monitor the		There are no active findings in the User Story (US) Validation category which remains Green (low criticality) for the August reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.	
Y	Y Y Y Test Practice expected to start in early September. Automated regression testing setup will be		completed by the end of November. This category remains Yellow (medium criticality) for	
and a deeper dive to derive the source of these issues is required. The deployment		Most of the R3.25 post-production critical defects were attributed to deployment issues and a deeper dive to derive the source of these issues is required. The deployment team continues to determine the best approach for promoting solution upgrades. IV&V will continue to closely monitor this high criticality category.		



# **Executive Summary**

Jun	Jul	Aug	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 August reporting period with no active findings.
G	G	G	Targeted KT	This category remains Green (low criticality) for the August reporting period and IV&V will continue to monitor.
G	G	G	Project Performance Metrics	There were no production deployments in August to report project performance metrics. 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 Organization Maturity Assessment (OMA) category remains Green (low).
R	R	R	Project Management	Quality issues continue to persist with project releases. 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during August. IV&V added a new high risk to address the barriers/delays in submitting an IAPDU. The criticality rating for this category remains red for the month of August.



## **Executive Summary**

As of the August 2022 reporting period, there are a total of ten (10) open findings – four High Issues, five Medium Issues, 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. Although BHA leadership continued to meet during August to address the Project's resource shortages and develop a mitigation plan to address this issue, no measurable progress was attained. A critical resource change for the current RSM Solutions Architect was announced during August, which only serves to compound the existing resource shortage issue and potentially impact overall quality. IV&V will continue to monitor this high criticality issue.	6

Recommendations	Status
BHA needs, and should pursue, documentation of the Calculator 3.0 solution.	In progress
The Project should investigate mechanisms of increasing the bandwidth of the BHA Technical Team, either by adding resources through new hires, or vendor contracts.	In progress
<ul> <li>The Project should assess, where possible, if there are responsibilities of the BHA Technical Team that can be reassigned to other project staff.</li> </ul>	In progress
<ul> <li>The Project should evaluate where process inefficiencies can be addressed and streamlined to possibly free up the BHA Technical Team's availability.</li> </ul>	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 is currently underway for R3.26 which is planned to be promoted to production on 9/1/2022. The Project has published a plan for implementing the Tricentis tool which kicks-off on 9/2/2022. The Tricentis Implementation Plan is detailed and comprehensive. Test automation is expected to commence with R3.27 and full integration (test automation and test result tracking) is targeted for R3.28. IV&V will continue to monitor the progress of the Tricentis tool implementation.	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
<ul> <li>Updating the regression test scripts to ensure consistency with system configuration.</li> </ul>	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	Status
<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

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

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 current R3.26 release was planned to be a Full Solution Upgrade (FSU) but instead the technical team has again pivoted to the use of patch deployments. The project is currently planning to promote R3.26 on 9/1/2022 as two separate patch deployments based on software entity contents comprised of 3-4 different technical solutions. BHA continues to collaborate with Microsoft and RSM in attempts to identify and implement the best approach for promoting FSUs to production. IV&V will continue to monitor this high issue.	#	Key Findings	Criticality Rating
	18	<ul> <li>continue to encounter defects and challenges in meeting projected timelines for production and non-production deployments. The current R3.26 release was planned to be a Full Solution Upgrade (FSU) but instead the technical team has again pivoted to the use of patch deployments. The project is currently planning to promote R3.26 on 9/1/2022 as two separate patch deployments based on software entity contents comprised of 3-4 different technical solutions.</li> <li>BHA continues to collaborate with Microsoft and RSM in attempts to identify and implement the best</li> </ul>	6

Recommendations	Status
<ul> <li>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.</li> </ul>	In Progress
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
<ul> <li>The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.</li> </ul>	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	
14	<ul> <li>Medium Issue - Due to multiple quality concerns, the Project may continue to face impactful system defects. A formal Root Cause Analysis (RCA) was conducted in early August for R3.25 critical defects. Most of the critical defects were attributed to deployment issues which require additional analysis to determine the source of these issues. IV&amp;V will continue to monitor this medium criticality finding.</li> </ul>	
Recon	nmendations	Status
• Eva	luate existing project staff skills and experience level to ensure they meet BHA support requirements.	Open
• Per	form revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.	In Progress
• Ass	ign dedicated resources to provide oversight of CAMHD Fiscal Processes.	In Progress
• Mor	nitor implemented improvements 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
<ul> <li>BHA and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase level of detail and quality.</li> </ul>	Completed
<ul> <li>Perform typical project testing including System Integration, User Acceptance, Performance, and Regression Testing.</li> </ul>	Completed
<ul> <li>Dedicate sufficient time in between releases for BHA and RSM to execute/implement RCA correction actions to reduce the volume of unplanned rework.</li> </ul>	Completed



#	# Key Findings	
12	<ul> <li>Medium Issue – PII/PHI data in non-production environments. As reported in previous months, there were no substantive changes to this finding identified in August. 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 consider solutions used on other projects for managing the PII/PHI data in non-production environments. IV&amp;V will continue to monitor this medium criticality issue.</li> </ul>	
Reco	nmendations	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
	V recommends if production data is necessary in any non-production environment that DOH establishes a n for effectively managing the security of the PII/PHI data, including the potential masking of data.	In Progress
	V recommends that DOH mitigates this finding by minimizing and/or masking PHI/PII data in designated	In Progress



#	Key Findings	Criticality Rating
21	Medium Issue – Unplanned rework may have an impact on delivering DDI functionality by the end of the DDI period. 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.	M
Recon	nmendations	Status
Reduce the amount of unplanned rework by continuing to focus on quality improvement measures.		

• Strive for defect performance metric not to exceed 20% of all user story points in any given release. In Progress



Key Findings	
<ul> <li>High Issue - The project schedules for 'big boulder' functionality development are slipping. 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 consumption. Most of that effort has been completed.</li> <li>'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during August, largely due to resource constraints and external dependencies.</li> </ul>	
ommendations	Status
xtend the current DDI timeframe to allow for the completion of 'big boulder' interfaces functionality evelopment.	In Progress
	<ul> <li>High Issue - The project schedules for 'big boulder' functionality development are slipping. 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 consumption. Most of that effort has been completed.</li> <li>'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during August, largely due to resource constraints and external dependencies.</li> <li>ommendations</li> </ul>

BHA to add more resources to support the development of "big boulder' interfaces functionality.
 Open

#	# Key Findings	
25	Medium Issue - The lack of a formal project governance structure is impeding decision-making procedures and overall leadership cohesiveness. A Project Charter has been developed but it is unclear to IV&V when it will be approved by the Executive Steering Committee to commence activities related to formal Project Governance.	M
Reco	ommendations	Status
• Establish a formal project governance structure to allow CAMHD, DDD, and other divisions to 1) have a single point of accountability, 2) ensure the right projects are approved, 3) outline roles, responsibility and relationships among project stakeholders, 4) provide issue management and resolution, and 5) help with information 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 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.	N/A

22

#	Key Findings	Criticality Rating
27	<i>New High Risk</i> - 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.	8
Reco	ommendations	Status
DHS to reconcile current claims invoicing discrepancies.		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>	<b>August –</b> There were no production releases in August to report velocity performance metrics.	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>	<b>August –</b> There were no production releases in August to report defect metrics.	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.
C	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.



# **Appendix B: Inputs**



#### Appendix B Inputs

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

#### Meetings attended during the August 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 August 2022 reporting period:

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





# **Appendix C: Project Trends**

### Appendix C Project Trends

Trend:	Overal	l Projec	t Health	ı						
Process Area		_			2021,	/2022				
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
User Story Validation										
Test Practice Validation										
Sprint Planning										
Release / Deployment Planning										
OJT and KT Sessions										
Targeted KT										
Project Performance Metrics										
Organizational Maturity Metrics										
General Project Management										
		1			i				Ì	
Total Open Findings	8	8	8	7	7	7	7	8	9	10
Issue - high	1	1	1	1	2	2	2	3	3	3
Issue - medium	4	4	4	4	4	4	5	5	5	5
Issue - Iow	3	3	3	2	1	1	0	0	0	0
Risk - high	0	0	0	0	0	0	0	0	0	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	0	1	1



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 the	While having a high level roadmap is	As much as possible, the project	01/31/2020 - IV&V is closing this concern,	Sprint Planning	Preliminary	N/A	Closed	Ramesh,	Due to multiple
		into the project's sprint	following topics as they relate to	good, the project should be able to	should identify what feature	and will be tracking items related to		Concern			Vijaya (PCG)	new items being
		planning processes and	Sprint Planning and the project's	identify what feature enhancements will	enhancements will be targeted	Definition of Done, roadmap, resourcing,						tracked at a more
		adoption of generally	overall approach to agile software	be targeted for each planned release. This	for each Release and should	and backlog grooming in new, separate						granular level,
		accepted agile best	development: - IV&V	roadmap will help the project manage	clearly map out the roadmap out	findings.						this item has
		practices.	acknowledges that the project is	scope and productivity. Relatedly, the	through the last Phase 3 release							been closed.
			now planning three sprints outs,	"definition done" is an important artifact	in September 2020.Additionally,							
			however, it appears that only a	to ensure that the project is successful.	the project should clearly define							
			"high-level" sprint planning	Otherwise, the project will struggle to	"Done" to ensure the project							
			roadmap has been produced, and	prioritize requests/enhancements and	team is working towards the							
			it is unclear exactly how the project	manage scope.	same goal and increase							
			is targeting features for each		opportunities for success.							
			release through the end of Mod 4.		Having a clear "definition of							
			IV&V is not aware of how the		done" will help provide the							
			project is currently defining "done"		project with guidance on how to							
			for Mod 3 and Mod 4Additionally,		stay within scope.							
			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									
			complete the scope of Release 3.5.									
			Complete the scope of Release 3.5.									
2.00	12/31/2019	As a result of regression	R3.3 introduced a defect that	Thorough vetting and validation of	Pursuing additional formal	08/31/2022 - Regression testing is currently	Test Practice Validation	Issue	Medium	Open	Darren	
,		testing not being	deprecated features in production	regression test cases is necessary to	training in AzureDevOps for test	underway for R3.26 which is planned to be					Macdonald	
,		consistently performed,	specific to Integrated Support and	prevent both defects and the deprecation	automation at the earliest	promoted to production on 9/1/2022. The						
,		production releases are	Life Trajectory functionality. DDD	of production functionality when a	possible juncture and	Project has published a plan for						
,		breaking and/or	has informed IV&V that there are	release is pushed live. When defects	commence efforts to automate	implementing the Tricentis tool which kicks-						
,		deprecating existing	other examples of functionality	occur in production, the project should	at least the 2 primary regression	off on 9/2/2022. The Tricentis						
,		functionality in the	being deprecated after a release,	follow a defined and repeatable process	test scripts.	Implementation Plan is detailed and						
,		production environment.	some of which are still being	for determining the root cause of the	IV&V recommends DDD and	comprehensive. Test automation is expected						
,			investigated. As of this report,	problem.	CAMHD to develop a common	to commence with R3.27 and full integration						
,			IV&V has not evaluated the		and consistent approach across	(test automation and test result tracking) is						
,			project's root cause analysis (RCA)		divisions for performing	targeted for R3.28. IV&V will continue to						
, I			process used to determine why		regression testing.	monitor the progress of the Tricentis tool						
, I			such functionality was deprecated		Determine if current regression	implementation.						
			but will discuss further with BHA in		-	07/31/2022 - This high criticality finding						
.			January 2020.		and if not, add more time to the pre-production regression test	continues to be the most impactful issue affecting the Project. Helpdesk team						
,					efforts for all release	members brought in to assist and support						
,					deployments.	the deployment team continue to improve						
. 1		1	1			their skills and experience with the last						
' 1					Updating the regression test			1	1	1		1
					Updating the regression test scripts to ensure consistency							
					scripts to ensure consistency	couple of releases and the recent mid-sprint						
					scripts to ensure consistency with system configuration.	couple of releases and the recent mid-sprint deployment. IV&V will continue to monitor						
					scripts to ensure consistency with system configuration. Modifying release schedules to	couple of releases and the recent mid-sprint deployment. IV&V will continue to monitor this finding.						
					scripts to ensure consistency with system configuration.	couple of releases and the recent mid-sprint deployment. IV&V will continue to monitor						
					scripts to ensure consistency with system configuration. Modifying release schedules to allow for regression testing	couple of releases and the recent mid-sprint deployment. IV&V will continue to monitor this finding. BHA has procured licenses for the Tricentis						
					scripts to ensure consistency with system configuration. Modifying release schedules to allow for regression testing timeframes	couple of releases and the recent mid-sprint deployment. IV&V will continue to monitor this finding. BHA has procured licenses for the Tricentis automated regression testing tool and						
					scripts to ensure consistency with system configuration. Modifying release schedules to allow for regression testing timeframes Planning releases by	couple of releases and the recent mid-sprint deployment. IV&V will continue to monitor this finding. BHA has procured licenses for the Tricentis automated regression testing tool and training is scheduled for the first week in						

3.00	12/31/2019	Usage of open source	IV&V learned in December 2019	Open source tools and frameworks offer	IV&V recommends BHA work to	08/31/2020 - IV&V is unaware of any	Targeted KT	Risk	Low	Closed	Darren	RSM has
	12,01,2015	JavaScript framework for		organizations great opportunities to build	establish a reliable and	additional KT gaps being identified by DOH,	Turgeteu Kr	NISK	2011	Closed	Macdonald	successfully held
		development and	is built in Vue.JS, an open source	and configure customized solutions at	repeatable process for keeping	and as such, is closing this						several KT
		ongoing maintenance of	JavaScript framework. As this	lower costs than through software	abreast of communal updates	finding.07/31/2020 - The Project resolved						sessions for this
		Calculator 3.0 requires	framework is relatively new, the	purchase or licensing. However, open	and support opportunities for a	the majority of the outstanding Calculator						technology and
		BHA to take a proactive	· · ·	source tools and frameworks often do not	new suite of tools -	3.0 defects during July which was						functionality, and
			small. IV&V's concerns include: -	come with support models, other than	CompletedIV&V recommends	implemented in the mid-sprint release on					1	DOH staff have
			The availability of reliable support	those offered through the tool's	BHA continue to hold targeted	7/17/2020. The final Calculator 3.0					1	stated that it was
			for Vue.JS - The project's	community. Because of this, the	KT sessions with RSM on	Knowledge Transfer session was conducted						well received.
			understanding of any known	organization bears the weight of seeking	maintaining Calculator 3.0 via a	on 7/17/2020. IV&V recommends BHA to						wenneceived.
			vulnerabilities with Vue.JS, and	out reliable help and support, as well as	suite of tools, and determine	identify and communicate any additional KT						
			development of a process to		what additional skillsets,	gaps to RSM during the month of August. If						
				much take a proactive approach to								
			remain current on vulnerabilities	security and identifying any vulnerabilities		no additional needs are identified, IV&V will						
			discovered by the support	in the tools.	needed to support BHA's long-	close this finding. 06/30/2020 - The project						
			community The RSM lead for		term ownership of Calculator 3.0							
			Calculator 3.0 went on extended		- Completed	Calculator 3.0 defects during the month of						
			parental leave in December			June. RSM conducted another Calculator 3.0						
			2019IV&V acknowledges that BHA			Knowledge Transfer session on 6/26/2020						
			has downloaded Vue.JS to start			and scheduled a final session for 7/17/2020.						
			getting familiar with it.			05/31/2020 - The project continued to focus						
						attention on the Calculator 3.0 user stories						
						and defects during the month of May. RSM						
						conducted another Calculator 3.0 Knowledge						
						Transfer session on 5/29/2020 which IV&V						
						attended. This session included the new C3.0						
						year-end changes. Additional KT sessions is						
						planned for and IV&V will continue to						
						monitor this project component during						
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	Issue	Medium	Closed	Darren	Key finding has
		following a detailed	pushed to production with Phase 3	deployment script is needed to ensure the	deployment scripts for both the	the related recommendations below has	Planning				Macdonald	been addressed
		deployment script, the	valaasaa Cawaa af tha dafaata									
			releases. Some of the defects	repeatability and stability of DOH's	patch method and the full	been completed. A subsequent medium	-					and proposed
		project may continue to	introduced to production have	repeatability and stability of DOH's production deployments. Since there are	patch method and the full solution upgrade method. The	been completed. A subsequent medium issue finding (#19) has been opened to	-					and proposed IV&V
		project may continue to experience defects			ľ							
		experience defects	introduced to production have	production deployments. Since there are	solution upgrade method. The	issue finding (#19) has been opened to						IV&V
		experience defects related to deployment	introduced to production have been narrowed down to	production deployments. Since there are currently two deployment types (patches	solution upgrade method. The script(s) should be in the form of	issue finding (#19) has been opened to address ongoing deployment processes and						IV&V recommendation
		experience defects related to deployment activities.	introduced to production have been narrowed down to environmental promotional	production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts	solution upgrade method. The script(s) should be in the form of a step-by-step procedure that	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 -						IV&V recommendation s have been
		experience defects related to deployment activities.	introduced to production have been narrowed down to environmental promotional activities. In these instances, the	production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process	solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on						IV&V recommendatior s have been completed. A
		experience defects related to deployment activities.	introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were	production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process and documented script will help ensure	solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the deployment process	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new						IV&V recommendation s have been completed. A subsequent
		experience defects related to deployment activities.	introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment (missing business	production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that	solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the						IV&V recommendation s have been completed. A subsequent finding #19 has
		experience defects related to deployment activities.	introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment (missing business	production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated	solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff availability	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the deployment. Root causes are suspected to						IV&V recommendation s have been completed. A subsequent finding #19 has been created to
		experience defects related to deployment activities.	introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment (missing business rules, missing components, missing	production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take place.	solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the deployment. Root causes are suspected to be a combination of insufficient testing from						IV&V recommendatior s have been completed. A subsequent finding #19 has been created to address on-going
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		experience defects related to deployment activities.	introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment (missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2 with RSM providing instruction and DOH staff physically executing the tasks and activities via keyboard. For Phase 3, it is unclear whether a complete, up to date, and documented deployment script, or deployment notes, are being utilized by BHA for	production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take place.	solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel are unavailable. Standardize the content of all developer deployment task notes, with a goal of eliminating any potential ambiguity to the Deployment Team, resulting in a cleaner and more repeatable set of deployment processes and	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the deployment. Root causes are suspected to be a combination of insufficient testing from a business perspective coupled with deployment issues. A bulk record update task required as part of the implementation was not included in the deployment, resulting in contacts being deprecated from the Circle of Support in Inspire. It is unclear if any other deployment issues may have also contributed to the new defects. Deployment corrections were applied in a mid sprint release on 11/27/2020. Based on the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved. 10/31/2020 - The RSM and DOH Teams have collaborated to						IV&V recommendation s have been completed. A subsequent finding #19 has been created to address on-going deployment processes and technical
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		experience defects related to deployment activities.	introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment (missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2 with RSM providing instruction and DOH staff physically executing the tasks and activities via keyboard. For Phase 3, it is unclear whether a complete, up to date, and documented deployment script, or deployment notes, are being utilized by BHA for	production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take place.	solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel are unavailable. Standardize the content of all developer deployment task notes, with a goal of eliminating any potential ambiguity to the Deployment Team, resulting in a cleaner and more repeatable set of deployment processes and	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the deployment. Root causes are suspected to be a combination of insufficient testing from a business perspective coupled with deployment issues. A bulk record update task required as part of the implementation was not included in the deployment, resulting in contacts being deprecated from the Circle of Support in Inspire. It is unclear if any other deployment issues may have also contributed to the new defects. Deployment corrections were applied in a mid sprint release on 11/27/2020. Based on the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved. 10/31/2020 - The RSM and DOH Teams have collaborated to						IV&V recommendatio s have been completed. A subsequent finding #19 has been created to address on-goin deployment processes and technical

5.00		BHA does not have a documented 'Definition of Done' (DOD) for the BHA Top 100 User Stories of for Phase 3. Because of this, it is unclear how proposed functionality/features are prioritized for each sprint, and throughout Phase 3.	The 'Definition of Done" document guides the Project's vision, business, and technical goals that are important inputs for stakeholders to develop a Roadmap for Phase 3. Without the 'Definition of Done' document, the project is likely to struggle to prioritize proposed functionality/features which may be equally important but are at odds with each other.	process of creating the Definition of Done. IV&V recommends that the project create this document and socialize this with project team before end of Feb 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.		Project Management	Concern	N/A		Vijaya (PCG)	Definition of Done completed and socialized.
6.00	1/31/2020	The backlog of defects, requests, and user stories continues to grow. Currently, there are approximately 429 defects and requests, of which almost 200 have a status of 'New'. IVV notes that a large percentage of the backlogged work items do not have user story points estimated. Many of the items listed in the backlog are old, and some may have had needs or requirements change over time or may now be obsolete. IV&V notes that DDD and CAMHD have initiated this effort and agreed to prioritize grooming the backlog by the end of February.	completed for any reason, they should be removed from the backlog to ensure its viability.	IVV recommends that CAMHD and DDD groom the backlog to bring it as current and accurate as possible. This should include deprecating items no longer needed, and fully defining those items that are not yet fully defined, readying them for configuration or developer resources. To the extent feasible, BHA should involve RSM SMEs in this process, if only for the interim to get "caught up" on grooming efforts. (Closed)VV recommends that the project consider utilizing an age-based methodology for the deprecation of 'older' user stories in the backlog that may no longer be applicable or needed by the Product Owners and developing a process for periodic cleansing of the backlog using the same methodology. (Closed)	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 has reached 94% completion at the end of March and this	Project Management	Risk	Low	Closed	Macdonald	The project has demonstrated they are consistently grooming the backlog.

#### FINAL IVV Findings Log Aug 2022 v1

100	1/31/2020		The BHA Technical Team plays a	The BHA Technical Team leads the efforts			Sprint Planning	Issue	High	Open	Darren	
		bandwidth may not be	role that is critical to project	of all technical DOH staff on the project.	additional Knowledge Transfer	continued to meet during August to address					Macdonald	
		adequate to meet the	success. Currently, the	As such, the Team's time is both	sessions on the updated	the Project's resource shortages and develop						
		needs of the project,	responsibilities associated with the	extremely valuable and scarce. If the	Calculator 3.0 solution	a mitigation plan to address this issue, no						
		which could compromise	BHA Technical Team have	Team's expected workload exceeds	The Project should investigate	measurable progress was attained. A critical						
		project productivity.	expanded beyond their collective	bandwidth, the project could experience	mechanisms of increasing the	resource change for the current RSM						
			available bandwidth. IV&V notes	bottlenecks. Optimization of the BHA	bandwidth of the BHA Technical	Solutions Architect was announced during						
			that BHA began addressing this	Technical Team's time is to the benefit of	Team, either by adding	August, which only serves to compound the						
			bandwidth issue, which includes	the project and plays a critical role in the	resources through new hires, or	existing resource shortage issue and						
			increased collaboration with key	project's ability to hit performance targets	vendor contracts.	potentially impact overall quality. IV&V will						
			RSM resources, and are working to	and achieve the Phase 3 definition of	The Project should assess, where	continue to monitor this high criticality issue.						
			potentially change the structure of	done.	possible, if there are	07/31/2022 - This high criticality finding						
			the Technical Team.		responsibilities of the BHA	continues to be the most impactful issue						
					Technical Team that can be	affecting the Project. Helpdesk team						
					reassigned to other project staff.	members brought in to assist and support						
					The Project should evaluate	the deployment team continue to improve						
					where process inefficiencies can	their skills and experience with the last						
					be addressed and streamlined to	couple of releases and the recent mid-sprint						
					possibly free up the BHA	deployment. IV&V will continue to monitor						
					Technical Team's availability.	this finding.						
					The Project should consider the	06/30/2022 - Although BHA leadership						
					formation of a first level	continued to meet during June to address						
					resource team to triage/address	the Project's resource shortages and develop						
					production defects in a timely	a mitigation plan to address this issue, no						
					manner, without disrupting new	measurable progress was attained. It was						
					development work.	announced that a critical RSM resource will						
					The Project should consider	transition off the project in July and will be						
					procurement of an online	replaced by another consultant. This is						
0 1	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 further	Droject Management	Preliminary	N/A	Closed	Ramesh.	Product
·	1/31/2020	Roadmap that provides	definitive Product Roadmap for	project on what functionalities/features	Project is in the process of	defined the Phase 3 Product Roadmap and	Project Management	Concern	N/A	Closed	,	Roadmap alig
		direction on the top	Phase 3 that addresses the	are targeted to be built and released and	creating a Short Term; Mid	aligned it with the Phase 3 Definition of		Concern				with Definition
				-	-	0						
		product features to be	functionalities, features, and / or	when users can have access to these	Term, and Long Term Roadmap.	Done. IV&V recommends the project						Done
		delivered in the near	enhancements to be built in order	functionalities. Without a defined	IV&V recommends the Project	continually review and update both the						
		term (next 3 months),	to fully address BHA's business	Roadmap the project may not be able to	complete this by the end of	Product Roadmap and Definition of Done,						
		midterm, and long term	needs. IV&V met with RSM and	effectively scope the top features to be	February 2020 to understand if	adjusting as necessary. IV&V will continue to						
		could have an adverse	BHA on this topic in January, and	released within Phase 3 and ensure the	there are any constraints	monitor the project's adherence to the						
		impact on the Project's	notes that the project is actively	correct resources are available to	(resources, budget) that may	Product Roadmap and progress against it but						
		scope and schedule.	working to address this concern.	accomplish the goal of each sprint and the		is closing out this concern as of the February						
				Phase.	releasing the needed	report.						
		1			functionalities/features targeted							
												1
					for Phase 3 as documented in							
					for Phase 3 as documented in the Definition of Done.							

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

1.00	7/31/2020	DDD Project resource 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	IV&V recommends that BHA does as much as possible within	03/31/2021 - The DDD staff who've been	Project Management	Risk	N/A	Closed	Darren Macdonald	The DDD staff who've been pa
					· ·	part of the review process are pleased with					Iviacdonaid	
		-	staffing shortages. DDD has stated	practice that best that all staff utilize the	its sphere of influence to	the quality of the videos produced within the						of the review
		on user adoption,	that its users have been found to	solution in the same manner. Variations	increase user adoption and	toolset and have determined that the toolset						process are
		training, and overall OCM		in how the system is utilized by its users is	-	is a very helpful training tool for DDD staff						pleased with th
		activities.	fullest extent in terms of system	likely to cause variations in data collection		and providers. As such, IV&V is closing this						quality of the
			workflow, provide their insights	and analytical efforts using the data	training toolsets to offset the	finding.02/28/2021 - Training videos using						videos produc
			and input, follow up, etc. To assist		need for in-person training, and	the new toolset were nearing completion by						within the
			in OCM activities, DDD has defined		adding staff as needed to	the end of February. DOH is currently						toolset, and h
			the need for an interactive training		support OCM and technical	reviewing the drafts of the second set of						determined th
			tool to support Inspire.		efforts. IV&V recommends DOH	videos and work is progressing well. IV&V						the toolset is a
					perform a detailed investigation	will continue to monitor this finding until						very helpful
					of the specific variations as to	DDD has had sufficient time to determine						training tool
					how the system is currently	the overall quality of the training work						DDD staff and
					being used by the user	products and whether the new toolset is						providers.
					community. Consequently, users	addressing user adoption and staffing						-
					would be provided with	shortages for these task efforts. 01/31/2021 -						
					constructive feedback on how	Training design activities using the						
					the system should be utilized	interactive training toolset commenced in						
					where gaps exist. This will likely	January and has attained good progress. The						
					lead to additional refresher	use of this tool is expected to provide some						
					training to close identified	bandwidth relief for DDD staff members						
					system knowledge gaps.	responsible for onboarding new staff						
					system knowledge gaps.							
						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				4		
2.00	8/31/2020	PII/PHI data in non-	IV&V has been made aware that	Failure to secure PII/PHI data leaves the	IV&V recommends DOH	08/31/2022 - As reported in previous	Project Management	Issue	Medium	Open	Darren	
		production environments	PII/PHI data currently exist in a non	organization open to highly targeted	consider limiting the volume of	months, there were no substantive changes					Macdonald	
			production environment to meet	social engineering attacks, heavy	environments with PII/PHI data	to this finding identified in August. The						
			project needs. Generally this is not	regulatory fines, and loss of client trust	and access necessary to support	Security Assessment will commence after the						
			a good security practice as the	and loyalty.	development work, which	associated contracts are executed and it is						
			presence of PII/PHI data in non-		should help minimize this risk.	unclear when this will occur. BHA plans to						
			production environments increases		IV&V recommends if production	work with RSM to consider solutions used on						
			the potential for theft, loss or									
		1	The potential for theit, loss of		data is necessary in any non-	other projects for managing the PII/PHI data						
					data is necessary in any non- production environment that							
			exposure thus increasing the		production environment that	in non-production environments. IV&V will						
			exposure thus increasing the organization's risk. Failure to		production environment that DOH establishes a plan for	in non-production environments. IV&V will continue to monitor this medium criticality						
			exposure thus increasing the organization's risk. Failure to secure PII/PHI data leaves the		production environment that DOH establishes a plan for effectively managing the	in non-production environments. IV&V will continue to monitor this medium criticality issue.						
			exposure thus increasing the organization's risk. Failure to secure PII/PHI data leaves the organization open to highly		production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data,	in non-production environments. IV&V will continue to monitor this medium criticality issue. 07/31/2022 - As reported in previous						
			exposure thus increasing the organization's risk. Failure to secure PII/PHI data leaves the organization open to highly targeted social engineering attacks,		production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking	in non-production environments. IV&V will continue to monitor this medium criticality issue. 07/31/2022 - As reported in previous months, there were no substantive changes						
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			exposure thus increasing the organization's risk. Failure to secure PII/PHI data leaves the organization open to highly targeted social engineering attacks,		production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data. IV&V recommends that DOH	in non-production environments. IV&V will continue to monitor this medium criticality issue. 07/31/2022 - As reported in previous months, there were no substantive changes to this finding identified during July. The Security Assessment will commence after the						
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			exposure thus increasing the organization's risk. Failure to secure PII/PHI data leaves the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of		production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data. IV&V recommends that DOH mitigates this finding by minimizing and/or masking PHI/PII data in designated non-	in non-production environments. IV&V will continue to monitor this medium criticality issue. 07/31/2022 - As reported in previous months, there were no substantive changes 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 environments. IV&V will continue to monitor this medium criticality issue. 06/30/2022 - There were no substantive changes to this finding identified during						
			exposure thus increasing the organization's risk. Failure to secure PII/PHI data leaves the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of		production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data. IV&V recommends that DOH mitigates this finding by minimizing and/or masking PHI/PII data in designated non-	in non-production environments. IV&V will continue to monitor this medium criticality issue. 07/31/2022 - As reported in previous months, there were no substantive changes 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 environments. IV&V will continue to monitor this medium criticality issue. 06/30/2022 - There were no substantive changes to this finding identified during June. The Security Assessment will						
			exposure thus increasing the organization's risk. Failure to secure PII/PHI data leaves the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of		production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data. IV&V recommends that DOH mitigates this finding by minimizing and/or masking PHI/PII data in designated non-	in non-production environments. IV&V will continue to monitor this medium criticality issue. 07/31/2022 - As reported in previous months, there were no substantive changes 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 environments. IV&V will continue to monitor this medium criticality issue. 06/30/2022 - There were no substantive changes to this finding identified during						

13.00	8/31/2020	Project not able to access Activity Logs	The Project recently deployed audit log functionality into production	The unavailability of activity logs may hamper the investigation of future	IV&V recommends that DHS continues to collaborate with	03/31/2021 - Per BHA, this finding is no longer an issue and recommends closure.	Release/Deployment Planning	Risk	N/A	Closed	Darren Macdonald	Finding has been resolved.
			whereby these logs can be	security breaches.	Microsoft until the activity	IV&V is closing this finding.02/28/2021 - BHA	Fidiliting				Iviacuonaiu	resolveu.
			, .	security breaches.								
			accessed and exported as needed. However, IV&V was made aware		logging feature is available in all BHA non-production	continued this effort in February despite a						
			,			workaround being necessary from Microsoft						
			access to activity logging for users			due to a layering issue. Based on continued						
			with just view permissions will not			delays, it is unclear when this important						
			be available from Microsoft in the			security activity will be completed. IV&V will						
			public sector environment until the			continue to monitor this finding. (Per Kamu,						
			end of September 2020. The			this status information did not correctly						
			unavailability of these specific			reflect the issue as the layering issue has no						
			activity logs could potentially			relation to the activity logs.)01/31/2021 -						
			hamper the investigation of future			The implementation effort for this activity						
			security events until implemented.			moved forward in January. Some of the						
						entities will have activity logging completed						
						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						
						analytical effort to determine which entities						
4.00	9/30/2020	Due to multiple quality	System defects identified in August	The identified quality issues have	Evaluate existing project staff	08/31/2022 - A formal Root Cause Analysis	Project Management	Issue	Medium	Open	Darren	
		concerns, the project	that affected claims were due to	negatively affected DOH billing processes	skills and experience level to	(RCA) was conducted in early August for					Macdonald	
		may continue to face	multi-faceted quality issues were	and DOH has stated these are the most	ensure they meet BHA support	R3.25 critical defects. Most of the critical						
		impactful system defects.	individually addressed during this	impactful defects discovered to date.	requirements.	defects were attributed to deployment						
		. ,	reporting period. IV&V notes that		Perform revenue neutrality fiscal	issues which require additional analysis to						
			there is one remaining defect still		balance testing on a quarterly	determine the source of these issues. IV&V						
			being evaluated that affects a		basis to ensure revenues are as	will continue to monitor this medium						
			limited number of claims. Overall,		expected.	criticality finding.						
			the Project Team has responded		Assign dedicated resources to	07/31/2022 - As with the previous release,			1			
			with a commitment to increase		provide oversight of CAMHD	the Project encountered quality issues as five			1			
			project quality and is in the process		Fiscal Processes.	(5) post-production defects were identified			1			
			of identifying improvements to		Monitor implemented	for R3.25 which was deployed on 7/21/2022.						
			associated testing processes. These		improvements for effectiveness.	A formal Root Case Analysis (RCA) is planned						1
			currently include:Performing		IV&V recommends performing	for the first week in August and it remains						
						-			1			
			Revenue Neutrality Testing to		an RCA in collaboration with	uncertain if coding, deployment, or other			1			
			ensure expected revenue streams		RSM after all future release	quality issues were the potential cause for						1
			are largely unchanged from one		deployments for continual	these defects. To address these defects, two			1			
			period to the next. Conducting		quality improvement.	of the critical items was deployed in a Mid			1			
			System Integration Testing, User		BHA and RSM to collaborate on	Sprint Deployment on 7/26/2022 and			1			
			Acceptance Testing, Performance		the necessary revisions to the	another critical item is planned for a second						
			Testing, and Regression Testing for		submitted design deliverables to	Mid Sprint Deployment in early August.			1			
			Release 3.10. IV&V will continue to		increase level of detail and	IV&V will continue to monitor this medium						
			monitor the testing efforts		quality.	criticality finding.			1			
			throughout the balance of Release		Perform typical project testing	06/30/2022 - The project continues to						
		1	1.2. A Grand and the last state of a state of the stat	1	including System Integration,	struggle with quality issues as demonstrated		1	1	1		
			3.10 and validate that enhanced		including system integration,	bei abbie men quanty issues as aemonstratea						
			quality processes, including		User Acceptance, Performance,	with the R3.24 production deployment on						

15.00	10/5/2020	Usage of Semantics and	The project noted its intent to	Default	Default	01/31/2021 - The project has made great	Targeted KT	Preliminary	N/A	Closed	Darren	The project has
		IDM for development and	obtain more targeted knowledge			strides addressing this concern. A Semantics		Concern			Macdonald	made good
		ongoing maintenance of	transfer of both the Semantics			Layer KT session was conducted on 1/29/21						progress
		the system requires BHA	Reporting and IDM tools. IV&V will			and multiple IDM and Semantic Layer						establishing and
		to take a proactive	continue to monitor this concern.			sessions has been scheduled in February.						initial execution
		approach to support of				IV&V is closing this finding as we no longer						of the IDM and
		these tools.				view this item as a concern.12/31/2020 -						Semantics Layer
						IV&V is aware that an overview of the						KT plan.
						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						
16.00	40/27/2020					and scheduling these sessions with the RSM	n 1 1 1 1	a: 1	N/A	Classed		
16.00	10/27/2020	The bandwidth of		CAMDH Leadership participation in key	IV&V recommends CAMHD look	06/30/2021 - As anticipated, the CAMHD	Project Management	Risk	IN/A	Closed	Darren	CAMHD
		CAMHD Leadership is	approval to commence planning	activities could be significantly hindered	for opportunities to augment	Leadership time dedicated to the Project has					Macdonald	Leadership time dedicated to the
		being hampered by	efforts for expansion of the project	by the flood of activities that could occur	the management staffing for	returned to normal and expected levels. As						
		planning tasks and				-						
			for ADAD and AMHD & HSH.	as the department assesses expansion of	planning Phase 4 and M&O	such, IV&V is closing this finding.						project has
		activities for assessing	CAMHD Leadership currently	as the department assesses expansion of this project to the balance of divisions.		such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD						project has returned to
1		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of						project has
		activities for assessing	CAMHD Leadership currently		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to						project has returned to
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		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE						project has returned to
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		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID						project has returned to
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		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as DOH has hired						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as DOH has hired a Project Manager in April who will be						project has returned to
		activities for assessing project expansion to	CAMHD Leadership currently spends 25% of their available time		planning Phase 4 and M&O	such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as DOH has hired a Project Manager in April who will be dedicated to the Vaccine Registration						project has returned to

	11/30/2020	Due to consistent	The IDM and Semantic layer efforts	Default	IV&V recommends the project to	08/31/2021 -The number of issues requiring	Release/Deployment	Issue	N/A	Closed	Darren	The volume of
17.00	11/30/2020	technical issues requiring	have experienced several delays	Delaut	continue to monitor the status	assistance from Microsoft continues to	Planning	Issue		Closed	Macdonald	interactions
		escalation to Microsoft,	attributable to issues escalated to		of outstanding Microsoft tickets	remain limited, and as such, IV&V is closing	i idining				Wacuonalu	needed with
		some project efforts are	Microsoft. The issues have ranged		and to escalate the priority of	this finding. 07/31/2021 - While the number						Microsoft
		being delayed.	from administrative /		these tickets as deemed	of issues requiring assistance from Microsoft						remains low and
			communication (entering issues		necessary.	remains limited, interactions with Microsoft						manageable.
			into the Commercial support			are increasing again due to the interface						This condition is
			instance vs the Government Cloud			functionality planned for implementation in						no longer
			support instance), to several key			the current and remaining DD&I releases.						impeding project
			technical issues requiring			The FHIR API interface has required multiple						progress.
			assistance to resolve. To date,			interactions with Microsoft that have						P8
			these support needs have added			resulted in unplanned schedule slippages for						
			over a month to the IDM and			the FHIR API implementation. IV&V will						
			Semantic Layer project schedules.			continue to monitor this finding. 06/30/2021						
						- The number of issues requiring assistance						
						from 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)						
						instance. The issue with fields being locked						
18.00	12/31/2020	Due to on-going	There have been several defects	Repeatable documented release and	Ensure there are adequate and	08/31/2022 - The current R3.26 release was	Release/Deployment	Issue	High	Open	Darren	
				1 ·								
		deployment processes		deployment will help ensure that	qualified resources to support		Planning				Macdonald	
		deployment processes and technical execution	pushed to production with Phase 3 releases. Some of the defects	deployment will help ensure that mistakes are minimized, and that					-		Macdonald	
					qualified resources to support	planned to be a Full Solution Upgrade (FSU)					Macdonald	
		and technical execution issues, the Project may continue to encounter	releases. Some of the defects introduced to production have been narrowed down to	mistakes are minimized, and that	qualified resources to support the current deployment processes. This may require the support from RSM resources to	planned to be a Full Solution Upgrade (FSU) but instead the technical team has again pivoted to the use of patch deployments. The project is currently planning to promote					Macdonald	
		and technical execution issues, the Project may	releases. Some of the defects introduced to production have	mistakes are minimized, and that functionality is not mistakenly deprecated	qualified resources to support the current deployment processes. This may require the	planned to be a Full Solution Upgrade (FSU) but instead the technical team has again pivoted to the use of patch deployments.					Macdonald	
		and technical execution issues, the Project may continue to encounter	releases. Some of the defects introduced to production have been narrowed down to environmental promotional activities. In these instances, the	mistakes are minimized, and that functionality is not mistakenly deprecated	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	planned to be a Full Solution Upgrade (FSU) but instead the technical team has again pivoted to the use of patch deployments. The project is currently planning to promote R3.26 on 9/1/2022 as two separate patch deployments based on software entity					Macdonald	
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19.00 3	3/28/2021		The RSM contract for Phase 3 is currently planned to complete in September 2021. BHA will need a transition plan to ensure that it has all knowledge transfer and is fully capable of managing all aspects of supporting and maintaining the D365 solution without vendor support until at least the Phase 4 expansion effort is procured and initiated. The Phase 4 effort is currently expected to commence late in the 4th quarter of 2021, or early in the first quarter of 2022. The Phase 4 procurement scope is planned to include additional DD&I activities, as well as M&O support	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.	Work hand in hand with RSM to 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 sstill pending approval. This amendment will extend the DD&I effort (Mod 5) to the end of December 2021 and will also provide M&O services (Mod 6) through May 2022. Mod 5 is expected to be approved in May 2021. This will delay the near-term need for a Transition Plan until first quarter 2022. IV&V will continue to monitor this finding.	Project Management	Preliminary Concern	N/A	Closed		The RSM amendments were fully executed in May 2021.
20.00 4	4/30/2021	The DDD Project Manager will be on leave and unavailable to the project starting in May.	The DDD Project Manager performs most of the project duties on behalf of DDD and her absence may cause an increased level of risk to the project. DDD has commenced planning efforts and has assigned staff to backfill her, although they are currently assigned to other project tasks and activities. IV&V will continue to monitor this preliminary concern.	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.	1) IV&V recommends DDD to 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	Darren Macdonald	The DDD Project Manager has returned from her leave, fully mitigating this issue.

21.00	6/30/2021	Unplanned rework may	The continued volume of	Release defect metrics for unplanned	Reduce the amount of	08/31/2022 - There were no planned	Project Management	Issue	Medium	Open	Darren	
		have an impact on	unplanned rework may have an	rework has been 30-40% of the total USPs	unplanned rework by continuing	releases for the month of August and					Macdonald	
		delivering DDI	impact on delivering planned DDI	for the last few releases.	to focus on quality improvement	consequently no velocity or defect metrics to						
		Functionality by the end	functionality with only 4 possible		measures.	report this month. IV&V will report out these						
		of the DDI period.	DDI releases remaining for		Strive for defect performance	metrics in our September status report.						
			completion.		metric not to exceed 20% of all	07/31/2022 - R3.25 was deployed on						
					user story points in any given	07/21/2022 and the associated defect						
					release.	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						
						numbers are still out of bounds for the target						
						of less than 20% of all User Story Points.						
						R3.24 had an estimated velocity of fifty-nine						
						(59) USPs and a total of seventy-seven (77)						
						USPs were promoted to production. Thirty-						
						two-point-five (32.5)% of all USPs in R3.24						
						were attributable to defects, while sixty-						
						seven-point-five (67.5)% of the total USPs						
						were associated with planned user stories						
						and requests. The project continues to put						
						forth efforts to identify and implement						
						measures (reference May findings for						
						details) that will result in decreases to defect percentages. IV&V will continue to monitor						
22.00	7/30/2021	The project schedules for	The FHIR interface and CAFAS	Weekly RSM Status Report	Extend the current DDI	08/31/2022 - The Project spent a significant	Project Management	Issue	High	Open	Darren	
22.00	//50/2021	'big boulder' interface	interface are currently at risk of not		timeframe to allow for the	amount of time in August assessing and	Project Management	issue	Inigii	Open	Macdonald	
		functionality	making the planned R3.17 release.		completion of 'big boulder'	grooming the backlog to determine if user					Wacuonalu	
		development are	The Single Sign on components of		interfaces functionality	stories for CAMHD, DDD, or both divisions						
		slipping.	the HHIE interface are also		development.	are accurately reflected and deemed						
		Subburg.	currently at risk of not making the		BHA to add more resources to	executable and ready for project team						
			planned R3.17 release, and the			consumption. Most of that effort has been						
			ADT/Labs components have		boulder' interfaces functionality.							
			already missed needed		,-	'Big Boulder' prioritized						
			intermediate target dates for the			features/functionality implementation						
			planned R3.17 release. The Project			schedules continued to slide and change						
			will need to re-assess the planned		1	5-		1				
			will need to re-assess the plainted			priority during August, largely due to						
1			implementation dates for these			priority during August, largely due to resource constraints and external						
			implementation dates for these			resource constraints and external						
			implementation dates for these 'big boulder' interfaces, including			resource constraints and external dependencies.						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized features/functionality implementation						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS and HHIE			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS and HHIE interfaces are needed by the			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during July, largely due to resource						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS and HHIE interfaces are needed by the program. IV&V also notes that			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during July, largely due to resource constraints and external dependencies. The						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS and HHIE interfaces are needed by the program. IV&V also notes that there are several new high priority			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during July, largely due to resource constraints and external dependencies. The project team spent a significant amount of						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS and HHIE interfaces are needed by the program. IV&V also notes that there are several new high priority requests related to the DDD			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during July, largely due to resource constraints and external dependencies. The project team spent a significant amount of time during July assessing and grooming the						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS and HHIE interfaces are needed by the program. IV&V also notes that there are several new high priority requests related to the DDD Provider Portal and 27 production			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during July, largely due to resource constraints and external dependencies. The project team spent a significant amount of time during July assessing and grooming the backlog to determine if user stories for						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS and HHIE interfaces are needed by the program. IV&V also notes that there are several new high priority requests related to the DDD Provider Portal and 27 production flow jobs that need to be reviewed			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during July, largely due to resource constraints and external dependencies. The project team spent a significant amount of time during July assessing and grooming the backlog to determine if user stories for CAMHD, DDD, or both divisions are						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS and HHIE interfaces are needed by the program. IV&V also notes that there are several new high priority requests related to the DDD Provider Portal and 27 production flow jobs that need to be reviewed for replacement of older dataverse			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during July, largely due to resource constraints and external dependencies. The project team spent a significant amount of time during July assessing and grooming the backlog to determine if user stories for CAMHD, DDD, or both divisions are accurately reflected and deemed executable						
			implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS and HHIE interfaces are needed by the program. IV&V also notes that there are several new high priority requests related to the DDD Provider Portal and 27 production flow jobs that need to be reviewed for replacement of older dataverse connectors that are known by			resource constraints and external dependencies. 07/31/2022 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during July, largely due to resource constraints and external dependencies. The project team spent a significant amount of time during July 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 consumption.						

#### FINAL IVV Findings Log Aug 2022 \_ v1

23.00	7/31/2021	The current DDI period	The current Project Staffing Model	Existing contractual agreements	Obtain IAPDU approval from	02/28/2022 - The IAPDU was approved by	Project Management	Issue	Low	Closed	Darren	
23.00	,,51,2021	expires at the end of	shows a planned reduction in RSM	Existing contractual agreements.	CMS.	Federal partners in early February, which		13500	2011	closed	Macdonald	
		December 2021 which	resources support starting in			extended the DD&I effort through October						
		will require RSM to	September 2021 through			2022. Transition from RSM will not be						
		transition of the D365	December 2021. Prior to this			required until approximately August 2022.						
		solution to the State prior				Based on the extended time being available						
		to contract end.	the development of a transition			for transition efforts, IV&V is closing this						
			plan to ensure the appropriate			finding.						
			replacement State resources are			01/31/2022 - There were no substantive						
			identified/secured and the			changes to this finding observed during						
						January as BHA continues to pursue CMS						
			necessary knowledge transfer			1 <i>i</i> .						
			sessions are planned and executed			Federal funding approval for extending DD&I						
			with RSM. BHA will need to be sure			through October 2022 followed by M&O						
			they are ready to take on the			through September 2024. IV&V will continue						
			development of user stories,			to monitor this finding until Federal funding						
			testing, deployment, and the			approved.						
			support and maintenance of the			12/31/2021 - There were no substantive						
			entire system by the end of the DDI			changes to this finding observed during						
			period (December 2021).			December as BHA continues to pursue CMS						
						Federal funding approval for extending 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 for	Daily Scrum Reporting	Ensure there are adequate and	11/30/2021 - R3.19 was promoted to	Project Management	Issue	High	Closed		Technical issue
		Upgrade technical issues	keeping the system current in		qualified resources to support	production as an FSU on 11/14/2021 and						resolved and
		are delaying the	order to gain access to new		the current Solution Upgrade	access to the development and test						were attributed
		implementation of the	features that enhance productivity,		processes. This may require the	environments was again restored. Because					t	to the following:
		release and the ability for			support from RSM resources to	the solution upgrade was the first in five (5)						<ul> <li>Import of</li> </ul>
		staff to develop and test	sensitive information. The current		provide assistance and	releases, the deployment process took					5	solution taking 1
		code.	R3.19 solution upgrade work		knowledge transfer.	approximately 12 hours. This issue did have						2 hours, timed
			efforts that includes patches for 5		As appropriate, consult with	an impact both on the amount of DDI						out in PROD, so
			releases (R3.15-R3.19) is causing		RSM on best practices that BHA	functionality (reduced) included in					+	had to restore
			technical issues. As a result, R3.19+		could employ to support the	downstream releases and cost implications.						and then restart
		1	development and testing work is				1	1		1	I   f	from a previous
			development and testing work is		Solution Upgrade.	IV&V has closed this finding, as it was					1 1.	
			hampered until these technical		Solution Upgrade.	IV&V has closed this finding, as it was alleviated by the R3.19 release on						point in time
					Solution Upgrade.	-					1	•
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on					l i	point in time
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021.					F E	point in time backup
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19					F	point in time backup • Errors are
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have					F	point in time backup • Errors are vague –
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development					F S S	point in time backup • Errors are vague – sometimes
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until the issues have					i i i	point in time backup • Errors are vague – sometimes indicating
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until the issues have been resolved. As a result, development and					i i i	point in time backup • Errors are vague – sometimes indicating "failure" but
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until the issues have been resolved. As a result, development and testing for R3.19 and forward are affected by					i S S S S S S S S S S S S S S S S S S S	point in time backup • Errors are vague – sometimes indicating "failure" but actually
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until the issues have been resolved. As a result, development and testing for R3.19 and forward are affected by this issue. IV&V will continue to monitor this					 	point in time backup • Errors are vague – sometimes indicating "failure" but actually successful
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until the issues have been resolved. As a result, development and testing for R3.19 and forward are affected by this issue. IV&V will continue to monitor this						point in time backup • Errors are vague – sometimes indicating "failure" but actually successful • MS moving
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until the issues have been resolved. As a result, development and testing for R3.19 and forward are affected by this issue. IV&V will continue to monitor this					 	point in time backup • Errors are vague – sometimes indicating "failure" but actually successful • MS moving away from Classic UI which
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until the issues have been resolved. As a result, development and testing for R3.19 and forward are affected by this issue. IV&V will continue to monitor this						point in time backup • Errors are vague – sometimes indicating "failure" but actually successful • MS moving away from Classic UI which is changing the
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until the issues have been resolved. As a result, development and testing for R3.19 and forward are affected by this issue. IV&V will continue to monitor this						point in time backup • Errors are vague – sometimes indicating "failure" but actually successful • MS moving away from Classic UI which is changing the availability of
			hampered until these technical		Solution Upgrade.	alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until the issues have been resolved. As a result, development and testing for R3.19 and forward are affected by this issue. IV&V will continue to monitor this					 	point in time backup • Errors are vague – sometimes indicating "failure" but actually successful • MS moving away from Classic UI which is changing the

		project governance structure is impeding decision-making procedures and overall leadership cohesiveness.	The impact of poor project governance can lead to: •Untimely and/or uninformed decision-making •Project delays and overruns •Breakdown in communications and collaboration •An erosion of project team trust	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.	-	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 Committee to commence activities related to formal Project Governance. 07/31/2022 - A Project Charter has been developed and is in process of review and approval by the Executive Steering Committee to commence activities related to formal Project Governance. 06/30/2022 - As expected, the priorities and goals of DDD and CAMHD are not the same. This often leads to disagreements on work priorities causing Project delays and overruns, breakdown in communications and collaboration, and an erosion of project team trust.				Work In Progre	Vic Dudoit	
26.00	7/31/2022	to work remotely is decreasing productivity and causing morale	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		October 2022 which will require RSM to transition	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.		Project Management	Risk	High	Open		