

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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December 16, 2021

The Honorable Ronald D. Kouchi,
President, and
Members of The Senate
Thirty-First State Legislature
Hawaii State Capitol, Room 409
Honolulu, Hawaii 96813

The Honorable Scott K. Saiki,
Speaker, and
Members of The House of Representatives
Thirty-First State Legislature
Hawaii State Capitol, Room 431
Honolulu, Hawaii 96813

Dear President Kouchi, Speaker Saiki, and Members of the Legislature:

Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation (IV&V) reports to the Legislature within ten days of receiving the report, please find attached the report the Office of Enterprise Technology Services received for the State of Hawaii Department of Health Hawaii BHA Integrated Case Management System Project.

In accordance with HRS section 93-16, this report may be viewed electronically at http://ets.hawaii.gov (see "Reports").

Sincerely,

DOUGLAS MURDOCK Chief Information Officer

State of Hawai'i

Attachment (2)



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

Final IV&V Report for the period of

November 1 – November 31, 2021

Final submitted: December 13, 2021



Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





Executive Summary

Release 3.19 (R3.19) was promoted to production as a full solution upgrade on 11/14/2021, which included a cumulation of five previous release patches. Despite this, eight non-critical post-production issues were identified. The Project continues to employ good quality improvement practices and conducted a R3.19 postmortem for the post-production issues.

The implementation dates of 'big boulder' interfaces functionality continued to slip in November, primarily attributable to third-party vendor delays. Moving forward, IV&V will continue to monitor the implementation progress of the 'big boulder' interfaces functionality as well as the finding regarding critical BHA resource constraints.

Sep	Oct	Nov	Category	IV&V Observations	
R	R	R	Sprint Planning	Although the BHA extended an offer to ITS4 candidate in November, their offer was turned down. As a result, the external postings for this position and the lower-level technical position remain open. The Project continues to identify RSM resources to support the outstanding DDI work to include custom code developers for the Calculator 3.0, Portal, and other custom code components. The criticality rating for this category remains Red (high) for the November reporting period.	
G	G	G	User Story (US) Validation	There are no active findings in User Story (US) Validation category which remains Green (low criticality) for the November reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.	
V			The Project deployed R3.19 to production on 11/14/2021 with eight non-critical post-production issues. Regression testing efforts continue to evolve and has shown positive results in the month of November.		
		-	Validation	BHA continued its efforts to select an automated regression tool as they await a proof of concept for a tool called Eggplant to compare with Microsoft's EasyRepro tool. IV&V will continue to monitor this finding.	



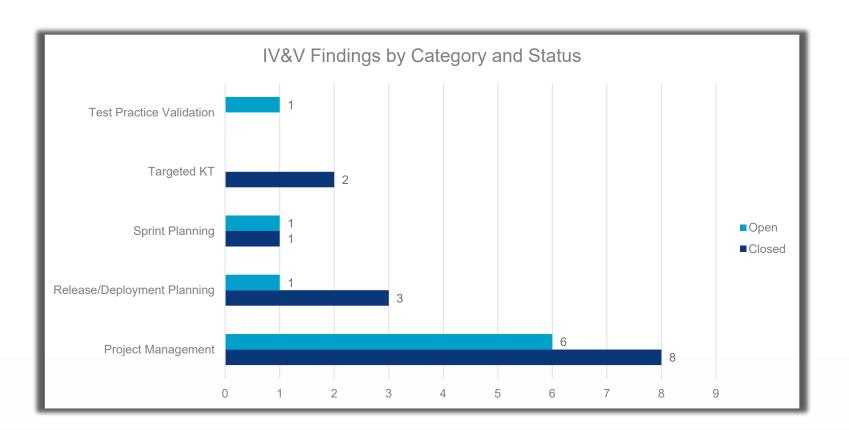
Executive Summary

Sep	Oct	Nov	Category	IV&V Observations	
R	R	R	Release / Deployment Planning	R3.19 was promoted to production with eight non-critical post-production issues identified a few attributed to deployment. Deployments continue to improve and suggestions for improving future Solution Upgrades have been identified and included in the planning process. IV&V will continue to monitor this category for another month before deciding to reduce the criticality rating for this category from a high rating.	
G	G	G OJT and KT Sessions The criticality rating for the OJT and KT Sessions category remains Green (low) for the November reporting period with no active findings.		The criticality rating for the OJT and KT Sessions category remains Green (low) for the November reporting period with no active findings.	
G	TO THE TOTAL PROPERTY OF THE P		There are no active findings in this category which remains Green (low criticality) for the November reporting period. IV&V will continue to monitor this category moving forward.		
G	G	G	Project Performance Metrics	The Project implemented 144 User Story Points for R3.19 exceeding the planned User Story Points of 117. IV&V will keep the criticality rating for this category a Green (low) and will continue to monitor this category moving forward.	
G	G	G	Organizational Maturity Assessment	laturity Our proposed assessment category recommendations. The criticality rating for the OMA	
Y	Y	Y	Project Management	'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. The unplanned rework percentage for R3.19 has improved from previous releases and closely aligns to the targeted rework percentage recommended by IV&V. The IAPDU for extending the DD&I and M&O timeframes have been submitted but an approval is still pending. IV&V will continue to monitor these items in the month of December.	



Executive Summary

As of the November 2021 reporting period, there are a total of eight open findings – one High Issue, four Medium Issues, and three Low Issues spread across the Sprint Planning, Release / Deployment Planning, Test Practice Validation, and Project Management assessment areas.





Assessment Categories

Throughout this project, IV&V verifies and validates activities performed in the following process areas:

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



IV&V Findings & Recommendations Sprint Planning

#	Key Findings	Criticality Rating
7	High Issue - The BHA Technical Team bandwidth may not be adequate to meet the needs of the project, which could compromise project productivity. The selected candidate for the ITS4 position turned down the offer from the State and the other candidates interviewed did not have the skills and experience needed for the position. The external postings for both the ITS4 and the lower-level technical positions remain open and requests for new 'lists' of candidates have been resubmitted. IV&V will continue to monitor this high criticality issue until resolved.	(1)

Recommendations	
BHA needs, and should pursue, additional Knowledge Transfer sessions on the updated 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
The Project should assess, where possible, if there are responsibilities of the BHA Technical Team that can be reassigned to other project staff.	In progress
The Project should evaluate where process inefficiencies can be addressed and streamlined to possibly free up the BHA Technical Team's availability.	In progress



IV&V Findings & Recommendations Sprint Planning

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



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. R3.19 was promoted to production as a Full Solution Upgrade (FSU) on 11/14/2021. There were eight non-critical post-production issues that were a combination of coding and promotional issues. The Project continued to evaluate the EasyRepro and Eggplant tools for automated regression testing and a demo of the Eggplant tool is currently being scheduled. IV&V will continue to monitor this medium criticality finding.	M

Recommendations	
 Pursuing additional formal training in AzureDevOps for test automation at the earliest possible juncture and commence efforts to automate at least the 2 primary regression test scripts. 	In progress
 IV&V recommends DDD and CAMHD to develop a common and consistent approach across divisions for performing regression testing. 	Completed
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.	Completed
Updating the regression test scripts to ensure consistency with system configuration.	Completed



Test Practice Validation (cont'd)

Recommendations	Status
Modifying release schedules to allow for regression testing timeframes.	Completed
 Planning releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution. 	Completed
 Performing regression testing after every release, or possibly every other release, or potentially tying regression tests to FSU releases. In addition, consider alternating the DDD and CAMHD scripts every other release. 	Completed
 Modifying regression test scripts to start AFTER case creation, limiting the time it takes to execute. (This recommendation was for a point in time and is no longer valid.) 	Completed
Implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed.	Completed
Modifying the deployment scripts based on information gained from previous release deployments.	Completed
Consulting with RSM to determine how the 'interim testing processes' can be improved until such time that automated testing is available for repeatable and complete industry standard regression testing.	Completed
 IV&V recommends performing an RCA in collaboration with RSM for the continued concerns with regression testing efforts. 	Completed

Release / Deployment Planning

#	Key Findings	Criticality Rating
18	Medium Issue - Due to ongoing deployment processes and technical execution issues, the Project may continue to encounter defects and challenges in meeting projected timelines for production and non-production deployments. R3.19 was promoted to production as an FSU on 11/14/2021. Eight non-critical issues were identified following the release, which was a combination of coding and deployment issues. The Project has decided to perform an FSU every other release. Additionally, the Project is entertaining weekend efforts for FSUs if needed. IV&V will continue to monitor this medium criticality finding.	M

Recommendations	
 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. 	In Progress
 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. 	on In Progress
As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	In Progress



Release / Deployment Planning (cont'd)

Recommendations	Status
 Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with consistency of the configurations across environments, ensuring that the test environment is capable of testing ALL functions of any given release without the need for using multiple test environments. 	In Progress
 Request the assistance of the RSM Solution Architect in review of deployment scripts as a double check for accuracy and completeness prior to commencing deployment activities. 	In Progress
The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.	In Progress
 IV&V recommends performing an RCA in collaboration with RSM for the continued concerns surrounding environment differences. 	In Progress
 IV&V recommends updating the Project's Configuration Management Plan to address the current needs of the Project. This should include specific checklists geared at ensuring repeatable promotional processes by DOH. 	In Progress
 Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed. 	Completed
Ensure an operational and fully functional test environment is available to effectively conduct end-to-end regression testing prior to deploying a release to production.	Completed



Release / Deployment Planning (cont'd)

Recommendations	Status
 Develop a plan to institutionalize the execution of "Smoke Testing" for promotions to non-production and production environments. This will help to ensure that all components needed to test have been properly deployed prior to the actual execution of test activities. 	Completed
• Due to an error prone process of 'cherry picking' what is and what is not ready for deployment, IV&V recommends that DOH and RSM collaborate to determine an improved manner for managing DOH environments. (As a result of how the current development environment is being managed, 'cherry picking' components to deploy will continue to occur. This recommendation is closed.)	Closed



Project Management

#	Key Findings	Criticality Rating
14	Medium Issue - Due to multiple quality concerns, the Project may continue to face impactful system defects. R3.19 was promoted to production as an FSU on 11/14/2021. Eight non-critical issues were identified following the release and were determined to be a combination of testing (defects) and promotional issues. The Project continues to employ good quality improvement practices and conducted a R3.19 postmortem for the post-production issues. As a result, several quality improvement action items were identified to ensure requirements are current and for implementing future Solution Upgrades. Lessons learned were also identified for the technical issues encountered for the release. IV&V will continue to monitor this medium issue for sustained quality improvements.	M

Recommendations	Status
Evaluate existing project staff skills and experience level to ensure they meet BHA support requirements.	Open
Perform revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.	In Progress
Assign dedicated resources to provide oversight of CAMHD Fiscal Processes.	In Progress
Monitor implemented improvements for effectiveness.	In Progress



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

#	Key Findings	Criticality Rating
 Medium Issue – PII/PHI data in non-production environments. There was no substantive change this finding in November. This effort continues to remain on hold until additional staff are available to address this issue. IV&V notes that a Security Assessment is planned for the first quarter of next year which will likely require BHA to act on this finding. IV&V will continue to monitor this medium criticality moving forward. 		M
Recommendations		Status
	V recommends DOH consider limiting the volume of environments with PII/PHI data and access essary to support development work, which should help minimize this risk.	Open
• IV&V recommends if production data is necessary in any non-production environment that DOH establish plan 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 -production environments.	In Progress

#	Key Findings	Criticality Rating
21	Low Issue – Unplanned rework may have an impact on delivering DDI functionality by the end of the DDI period. The percentage of defects vs planned user stories and requests continued to improve during November. The defect percentage (26%) in November was lower than it has been in any of the previous 4 months and is close to the target of 20% or less of the USP's deployed to production. IV&V will continue to monitor this finding.	•

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



#	Key Findings	Criticality Rating
	Low Issue – The project schedules for 'big boulder' interfaces functionality development are slipping. 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities.	
22	Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the associated user stories are delayed to R3.20. The Power BI Reports and the Provider Interface files have been re-scheduled and are now spread between R3.20 and R3.21. The CAFAS Interface, Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface have been re-scheduled for R3.21. The Customer Portal Rollout is scheduled for R3.21 and the ePrescribe effort is scheduled for R3.21 or R3.22. IV&V will continue to monitor this low issue.	L

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



#	Key Findings	Criticality Rating
23	Low Issue – The current DDI period expires at the end of December 2021 which will require RSM to transition the D365 solution to the State prior to contract end. There were no substantive changes to this finding observed during November. In late October, PAC approved the funding request for extending DD&I through October 2022 followed by M&O through May 2023. IAPDU submittal and approval is still needed to secure Federal funding.	

Recommendations	Status
Obtain IAPDU approval from CMS.	In Progress



IV&V Findings & Recommendations Project Management (cont'd)

#	Key Findings	Criticality Rating
24	Closed High Issue - The R3.19 Solution Upgrade technical issues are delaying the implementation of the release and the ability for staff to develop and test code. R3.19 was promoted to production as an FSU on 11/14/2021 and access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021.	Closed

Recommendations	Status
Ensure there are adequate and qualified resources to support the current Solution Upgra may require the support from RSM resources to provide assistance and knowledge trans	DASALL
As appropriate, consult with RSM on best practices that BHA could employ to support the	e Solution Upgrade. Closed



Project Performance Metrics

Metric	Description	IV&V Observations	IV&V Updates
Velocity	 Review and validate the velocity data as reported by the project Verify the project is on pace to hit the total target number of US/USP for Phase 3 	November – Available velocity was estimated at 117 user story points for R3.19, and a total of 144 USPs were promoted to production on 11/14/2021. IV&V notes that RSM includes USP counts from Mid Sprint Deployments prior to a planned release as component of the planned release. Overall, cumulative Phase 3 targeted USP's through R3.19 was planned for 1,497, and the actual USP count is now 2,072.77. This continues to exceed expectations for volume of work performed.	N/A

Project Performance Metrics (cont'd.)

Metric	Description	IV&V Observations	IV&V Updates
Defect Metrics	 Understand and track the following: Defects by category (bug fixes) US Points assigned to defects in a release vs US Points assigned to planned US in a release 	 November – R3.19 was deployed to production on November 14, 2021. A total of 144 USP's were promoted to production. 74% of the total USP's were associated with planned user stories and requests. 26% of the total USP's were associated with defects that were either encountered during the release effort or pulled from the backlog. 	N/A

Appendix A: IV&V Rating Scales

Appendix AIV&V Rating Scales

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

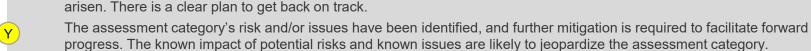
- See Findings and Recommendations Log (provided under separate cover)
- IV&V Assessment Category Rating Definitions

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

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

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

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



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

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

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

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

Significant schedule issues exist (> 60 days late). Milestone and task completion dates will need to be re-planned.

Executive management and/or project sponsorship attention is required to bring the assessment category under control.



Appendix A

Finding Criticality Ratings

Criticality Rating	Definition
•	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be implemented as soon as feasible.
•	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 November 2021 reporting period:

- Daily Scrum Meetings (selected)
- 2. Twice Weekly RSM Issues Meeting
- 3. Weekly BHA-ITS Project Status Meeting
- 4. Bi-Weekly Check-in: CAMHD
- Bi-Weekly Check-in: DDD
- 6. BHA IAPDU Planning Meeting
- 7. IV&V Draft IV&V Status Review Meeting with DOH
- IV&V Draft IV&V Status Review Meeting with RSM and DOH

Eclipse IV&V® Base Standards and Checklists

Artifacts reviewed during the November 2021 reporting period:

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



Appendix C: Project Trends

Organizational Maturity Assessment

Measure IV&V Observations

On October 6, 2021, PCG conducted an Organizational Maturity Assessment with the BHA Team. A summary of the assessment and our recommendations are documented below:

October 2021 Organizational Maturity Assessment Summary

Assessment Area	Oct 2021 Level	Target Level	Assessment	Recommendations
Morale	3	3	Agile (3) Target Level Maintained	N/A
Sustainable Pace	2	3	Work is sustainable but impacted by ongoing staff shortfalls.	BHA continue to address resource shortage(s).
Cross Functional (Scrum Team)	1.75	3	Rating impacted by resource shortage(s) as well as gaps in system knowledge and experience (i.e., Calculator).	BHA to address resource needs and to ensure appropriate documentation available for system functions requiring additional resource support.
Self Organization	2.5	3	Team still requires Scrum Master but is self organized when some members of the team are not present. Team is able to adjust and continue getting stories done. Continue cross-training.	Continue to work towards Agile (3) Target Level.
Shippability	3	4	Throughput of User Stories is impacted by resource shortage and external partners.	BHA to address resource needs and the delays working with third-party vendors.



Organizational Maturity Assessment - cont'd

	Octobe	er 2021 Orga	nizational Maturity Assessment Sumr	nary
Assessment Area	Oct 2021 Level	Target Level	Assessment	Recommendations
Product Management Strategy	3	3	Agile (3) Target Level Maintained	N/A
Team Level Product Management	2.75	3	CAMHD performing at target level. DDD performing slightly lower than target level as the current Product Manager must rely upon other decision-makers and frequent requirement changes within the division.	DDD to look at ways to improve change management procedures within the division.
Cycle time of Backlog	2	3	Backlog cycling is taking longer due to resource shortage as well as RSM staff turnover.	BHA continue to address resource shortage(s).
Use Of INVEST	3	4	INVEST (Independent, Negotiable, Valuable, Estimable, Small, and Testable) applied to most user stories.	Apply INVEST ALL user stories to achieve Target Level Ideal (4).
Backlog Grooming	4	3	Assessed at Ideal (4) Level which exceeds current Agile (3) Target Level.	Continue backlog grooming efforts.
Vertical Slicing	2.75	3	Vertical slicing work is on-going.	Improve using vertical slices for user stories to achieve Agile (3) Target Level.
Work In Progress	3	3	Agile (3) Target Level Maintained	N/A



Organizational Maturity Assessment - cont'd

	Octobe	r 2021 Orga	nizational Maturity Assessment Sumr	nary
Assessment Area	Oct 2021 Level	Target Level	Assessment	Recommendations
Reviews	3.25	4	Stakeholders generally involved with reviews and design decisions but not always. In the past few releases, Stakeholders were generally happy with what was delivered.	Look at ways to improvement Stakeholder engagement in order to achieve target level goal of 4.
Unit Testing (software)	2.75	3	DDD expressed a concern with the consistent issues found with Unit Testing.	BHA should consider requesting developers to provide unit test results/artifacts for a period (2-3 releases) to aid in improving quality.

Appendix C Project Trends

Trend:	Overall	Projec	t Health	1						
Process Area					2020	-2021				
Process Area	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
User Story Validation										
Test Practice Validation										
Sprint Planning										
Release / Deployment Planning										
OJT and KT Sessions										
Targeted KT										
Project Performance Metrics										
Organizational Maturity Metrics										
General Project Management										
Total Open Findings	10	11	8	8	8	10	8	8	9	8
Issue - high	4	4	4	4	4	4	2	1	2	11
Issue - medium	0	0	0	2	2	2	3	4	4	44
Issue - low	0	0	0	0	1	1	0	0	3	3
Risk - high	0	0	0	0	0	0	0	0	0	0
Risk - medium	2	2	4	0	0	0	0	0	0	00
Risk - low	4	4	0	1	0	0	0	0	0	00
Preliminary Concern	0	1	0	1	1	3	3	3	0	0



Solutions that Matter

ID	Date Identifie	Finding	Finding Statement	Supporting Analysis	PCG Recommendation	Finding Update	Process Area	Finding Type	Priority	Status	Closure Reaso	Risk Owner
		Detailed investigation into the	IV&V is currently	While having a high level roadmap is	As much as possible, the project		Sprint Planning	Preliminary	N/A	Closed	Due to	Ramesh, Vijaya (PCG)
		project's sprint planning processes	investigating the	good, the project should be able to	should identify what feature	and will be tracking items related to		Concern			multiple new	
		and adoption of generally	following topics as they	identify what feature enhancements will	enhancements will be targeted for	Definition of Done, roadmap, resourcing,					items being	
		accepted agile best practices.	relate to Sprint Planning	be targeted for each planned release.	each Release and should clearly map	and backlog grooming in new, separate					tracked at a	
			and the project's overall	This roadmap will help the project	out the roadmap out through the last	findings.					more	
			approach to agile	manage scope and productivity.	Phase 3 release in September						granular	
			software development:	Relatedly, the "definition done" is an	2020.Additionally, the project should						level, this	
			IV&V acknowledges	important artifact to ensure that the	clearly define "Done" to ensure the						item has	
			that the project is now	project is successful. Otherwise, the	project team is working towards the						been closed.	
			planning three sprints	project will struggle to prioritize	same goal and increase opportunities							
			outs, however, it	requests/enhancements and manage	for success. Having a clear "definition							
			appears that only a	scope.	of done" will help provide the project							
			"high-level" sprint		with guidance on how to stay within							
			planning roadmap has		scope.							
			been produced, and it is									
			unclear exactly how the									
			project is targeting									
			features for each									
			release through the end									
			of Mod 4 IV&V is not									
			aware of how the									
			project is currently									
			defining "done" for									
			Mod 3 and Mod									
			4Additionally, in the									
			January 2020 reporting									
			period, IV&V will seek									
			additional information									
2.000	12/31/2019	As a result of regression testing	R3.3 introduced a	Thorough vetting and validation of	Pursuing additional formal training in	11/30/2021 - R3.19 was promoted to		Issue	Medium	Open		Darren Macdonald
		not being consistently performed,		regression test cases is necessary to	AzureDevOps for test automation at	production as a Full Solution Upgrade	Validation					
		production releases are breaking	features in production	prevent both defects and the	the earliest possible juncture and	(FSU) on 11/14/2021. There were eight						
		and/or deprecating existing	specific to Integrated		1	non-critical post-production issues that						
		functionality in the production	Support and Life	when a release is pushed live. When	least the 2 primary regression test	were a combination of coding and						
		environment.		defects occur in production, the project	scripts.	promotional issues.						
				to be a color for the color of	DVOV	The Business and the second se			l			
		1		should follow a defined and repeatable	IV&V recommends DDD and CAMHD	The Project continued to evaluate the						
	I		that there are other	process for determining the root cause	to develop a common and consistent	EasyRepro and Eggplant tools for						
1			that there are other examples of	· ·	to develop a common and consistent approach across divisions for	EasyRepro and Eggplant tools for automated regression testing and a demo						
1 1			that there are other examples of functionality being	process for determining the root cause	to develop a common and consistent approach across divisions for performing regression testing.	EasyRepro and Eggplant tools for automated regression testing and a demo of the Eggplant tool is currently being						
			that there are other examples of functionality being deprecated after a	process for determining the root cause	to develop a common and consistent approach across divisions for performing regression testing. Determine if current regression	EasyRepro and Eggplant tools for automated regression testing and a demo of the Eggplant tool is currently being scheduled. IV&V will continue to monitor						
			that there are other examples of functionality being deprecated after a release, some of which	process for determining the root cause	to develop a common and consistent approach across divisions for performing regression testing. Determine if current regression testing timeframes are adequate and	EasyRepro and Eggplant tools for automated regression testing and a demo of the Eggplant tool is currently being scheduled. IV&V will continue to monitor this medium criticality finding.						
			that there are other examples of functionality being deprecated after a release, some of which are still being	process for determining the root cause	to develop a common and consistent approach across divisions for performing regression testing. Determine if current regression testing timeframes are adequate and if not, add more time to the pre-	EasyRepro and Eggplant tools for automated regression testing and a demo of the Eggplant tool is currently being scheduled. IV&V will continue to monitor this medium criticality finding. 10/31/2021 - The project determined that						
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3.000	12/31/2019	Usage of open source JavaScript	IV&V learned in	Open source tools and frameworks offer		08/31/2020 - IV&V is unaware of any	Targeted KT	Risk	Low	Closed		Darren Macdonald
		framework for development and	December 2019 that	organizations great opportunities to	establish a reliable and repeatable	additional KT gaps being identified by					successfully	
		ongoing maintenance of Calculator		build and configure customized	process for keeping abreast of	DOH, and as such, is closing this					held several	
		3.0 requires BHA to take a	•	solutions at lower costs than through	communal updates and support	finding.07/31/2020 - The Project resolved					KT sessions	
		proactive approach to support and		software purchase or licensing.	opportunities for a new suite of tools -	the majority of the outstanding Calculator					for this	
		security.	JavaScript framework.	However, open source tools and	CompletedIV&V recommends BHA	3.0 defects during July which was					technology	
			As this framework is	frameworks often do not come with	continue to hold targeted KT sessions	implemented in the mid-sprint release on					and	
			relatively new, the open	support models, other than those	with RSM on maintaining Calculator	7/17/2020. The final Calculator 3.0					functionality	
			source support	offered through the tool's community.	3.0 via a suite of tools, and determine	Knowledge Transfer session was					, and DOH	
			community is small.	Because of this, the organization bears	what additional skillsets, training,	conducted on 7/17/2020. IV&V					staff have	
			IV&V's concerns	the weight of seeking out reliable help	and/or resources are needed to	recommends BHA to identify and					stated that it	
			include: - The	and support, as well as much take a	support BHA's long-term ownership of	communicate any additional KT gaps to					was well	
			availability of reliable	proactive approach to security and	Calculator 3.0 - Completed	RSM during the month of August. If no					received.	
			support for Vue.JS -	identifying any vulnerabilities in the	·	additional needs are identified, IV&V will						
			The project's	tools.		close this finding. 06/30/2020 - The						
			understanding of any			project continued to focus attention on						
			known vulnerabilities			the Calculator 3.0 defects during the						
			with Vue.JS, and			month of June. RSM conducted another						
			development of a			Calculator 3.0 Knowledge Transfer session						
			process to remain			on 6/26/2020 and scheduled a final						
			current on									
						session for 7/17/2020. 05/31/2020 - The						
			vulnerabilities			project continued to focus attention on						
			discovered by the			the Calculator 3.0 user stories and defects						
			support community			during the month of May. RSM conducted						
			The RSM lead for			another Calculator 3.0 Knowledge Transfer						
			Calculator 3.0 went on			session on 5/29/2020 which IV&V						
			extended parental leave			attended. This session included the new						
			in December 2019IV&V			C3.0 year-end changes. Additional KT						
4.000	1/31/2020	Due to the project not following a	There have been	A complete, up to date, and	IVV recommends documenting	12/31/2020 - IV&V has closed this issue as	Release/Deployment	Issue	Medium	Closed	Key finding	Darren Macdonald
		detailed deployment script, the	several defects pushed	documented deployment script is	deployment scripts for both the patch	the related recommendations below has	Planning				has been	
		project may continue to	to production with	needed to ensure the repeatability and	method and the full solution upgrade	been completed. A subsequent medium					addressed	
		experience defects related to	Phase 3 releases. Some	stability of DOH's production	method. The script(s) should be in the	issue finding (#19) has been opened to					and	
		deployment activities.	of the defects	deployments. Since there are currently	form of a step-by-step procedure that	address ongoing deployment processes					proposed	
			introduced to	two deployment types (patches and full	walks through from start to finish of	and technical execution issues.					IV&V	
											1	
			production have been	solution upgrades), two scripts may be	the deployment process and involve	11/30/2020 - Release 3.10 was promoted					recommend	
	1		production have been narrowed down to	solution upgrades), two scripts may be warranted. An embedded process and	the deployment process and involve several technical staff to ensure staff	11/30/2020 - Release 3.10 was promoted to production on 11/11/2020.						
					several technical staff to ensure staff	1					recommend	
			narrowed down to	warranted. An embedded process and	several technical staff to ensure staff	to production on 11/11/2020.					recommend ations have	
			narrowed down to environmental	warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that	several technical staff to ensure staff availability to accomplish these tasks	to production on 11/11/2020. Approximately nine (9) new defects were identified after the deployment. Root					recommend ations have been	
			narrowed down to environmental promotional activities.	warranted. An embedded process and documented script will help ensure that	several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel	to production on 11/11/2020. Approximately nine (9) new defects were					recommend ations have been	
			narrowed down to environmental promotional activities. In these instances, the DEV and TEST	warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel are unavailable. Standardize the content of all developer deployment	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					recommend ations have been completed. A subsequent	
			narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not	warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	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	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					recommend ations have been completed. A subsequent finding #19	
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5.000		'Definition of Done", which could challenge the project's ability to fully achieve the goals of Phase 3.	of Done' (DOD) for the BHA Top 100 User Stories of for Phase 3. Because of this, it is unclear how proposed functionality/features are prioritized for each sprint, and throughout Phase 3.	The 'Definition of Done" document guides the Project's vision, business, and technical goals that are important inputs for stakeholders to develop a Roadmap for Phase 3. Without the 'Definition of Done' document, the project is likely to struggle to prioritize proposed functionality/features which may be equally important but are at odds with each other.	Project is currently in the process of creating the Definition of Done. IV&V recommends that the project create this document and socialize this with project team before end of Feb 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.	02/29/2020 - The project created and documented the Phase 3 Definition of Done and socialized it in February. IV&V recommends the project continually review and update the Definition of Done, adjusting as/if necessary. IV&V will continue to monitor the project's adherence to Definition of Done and progress against it but is closing out this concern as of the February report.	Project Management	Preliminary Concern	N/A	Closed	Definition of Done completed and socialized.	Ramesh, Vijaya (PCG)
6.000	1/31/2020	grooming could result in the project backlog having obsolete, non-estimated, and poorly defined user stories.	are approximately 429 defects and requests, of	A comprehensive, up-to-date backlog is a primary tenet of agile software development. If a backlog is carrying work items that may not ever be completed for any reason, they should be removed from the backlog to ensure its viability.	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	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	Project Management	Risk	Low	Closed	The project has demonstrate d they are consistently grooming the backlog.	Darren Macdonald

7.000 1/31/2020 The BHA Technical Team Independent of the ITS4 position turned down the offer from the State and the other candidates which could compromise project which could compromise project and the project of the ITS4 position turned down the offer sessions on the updated Calculator 3.0 interviewed did not have the skills and solution interviewed did not h	Darren Macdonald
to meet the needs of the project, which could compromise project success. Currently, the both extremely valuable and scarce. If solution sessions on the updated Calculator 3.0 from the State and the other candidates interviewed did not have the skills and	
which could compromise project success. Currently, the both extremely valuable and scarce. If solution interviewed did not have the skills and	
productivity. responsibilities the Team's expected workload exceeds The Project should investigate experience needed for the position. The	
associated with the BHA bandwidth, the project could mechanisms of increasing the external postings for both the ITS4 and the	
Technical Team have experience bottlenecks. Optimization of bandwidth of the BHA Technical lower-level technical positions remain	
expanded beyond their the BHA Technical Team's time is to the Team, either by adding resources open and requests for new 'lists' of	
collective available benefit of the project and plays a critical through new hires, or vendor candidates have been resubmitted. IV&V	
bandwidth. IV&V notes role in the project's ability to hit contracts. will continue to monitor this high	
that BHA began performance targets and achieve the The Project should assess, where criticality issue until resolved.	
addressing this Phase 3 definition of done. possible, if there are responsibilities 10/31/2021 - BHA interviewed multiple	
bandwidth issue, which of the BHA Technical Team that can be candidates for the open ITS4 position in	
includes increased reassigned to other project staff. October, and selection is anticipated in	
collaboration with key The Project should evaluate where early November. BHA has not received	
RSM resources, and are process inefficiencies can be approval to post its second (lower level)	
working to potentially addressed and streamlined to possibly technical position. IV&V will continue to	
change the structure of free up the BHA Technical Team's monitor this high priority issue until	
the Technical Team. availability. resolved.	
The Project should consider the 09/30/2021 - BHA received multiple	
formation of a first level resource candidates for the open ITS4 position and	
team to triage/address production is currently interviewing the most	
defects in a timely manner, without qualified candidates. A candidate selection	
disrupting new development work. is anticipated in October. BHA has not	
The Project should consider received approval to post its second	
procurement of an online training (lower level) technical position. RSM has	
toolset to support OCM and technical provided ongoing Calculator 3.0	
efforts to offset the need for in- knowledge transfer sessions to BHA staff	
	Product Ramesh, Vijaya (PCG)
	Product Ramesh, Vijaya (PCG) Roadmap
that provides direction on the top single, definitive project on what functionalities/features in the process of creating a Short further defined the Phase 3 Product Concern	1
product features to be delivered in Product Roadmap for are targeted to be built and released Term; Mid Term, and Long Term Roadmap and aligned it with the Phase 3	aligned with
the near term (next 3 months), Phase 3 that addresses and when users can have access to Roadmap. IV&V recommends the Definition of Done. IV&V recommends the	Definition of
midterm, and long term could the functionalities, these functionalities. Without a defined Project complete this by the end of project continually review and update	Done
have an adverse impact on the features, and / or Roadmap the project may not be able to February 2020 to understand if there both the Product Roadmap and Definition	
Project's scope and schedule. enhancements to be effectively scope the top features to be are any constraints (resources, of Done, adjusting as necessary. IV&V will	
built in order to fully released within Phase 3 and ensure the budget) that may hinder the project continue to monitor the project's	
address BHA's business correct resources are available to from releasing the needed adherence to the Product Roadmap and	
needs. IV&V met with accomplish the goal of each sprint and functionalities/features targeted for progress against it but is closing out this	
RSM and BHA on this the Phase. Phase 3 as documented in the concern as of the February report.	
topic in January, and Definition of Done.	
notes that the project is	
actively working to	
address this concern.	

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9.000	3/31/2020	The COVID-19 pandemic and the	On 3/23/2020, the	DOH stakeholder participation in key	- IV&V recommends BHA to ramp up	04/30/2021 - The Project continues to	Project Management	Risk	Low	Closed	,	Darren Macdonald
		related "stay at home" order could	· ·	activities could be significantly	efforts to setup, train, and assist	maintain its ability to operate with staff					continues to	
		hinder project activities and	at home, work from	hindered, not only by required remote	stakeholders on remote work devices	working remotely, effectively overcoming					maintain its	
		negatively impact the project	home order" that has	work by DOH and SI staff, but also by	and tools and make every effort to	the "stay at home, work from home order"					ability to	
		schedule and budget.	reduced state	the flood of activities that could occur	help them to become highly	that reduced BHA's ability to be fully					operate with	
			departments ability to	as the department could become	functional with remote access	functional in the office. The potential DDD					staff working	
			be fully functional as	overwhelmed processing and providing	technology (e.g. MSTeams/Skype) -	and CAMHD budget challenges reported in					remotely,	
			the large majority of	services due to the resulting economic	Completed- IV&V recommends the	March were also overcome during April,					effectively	
			state workers will be	impacts to citizens. Some stakeholders	project and DOH create a detailed,	providing fiscal relief to BHA. As such,					overcoming	
			required to work from	may be unable (due to stricter	documented risk mitigation strategy	IV&V is closing this finding.03/31/2021 -					the "stay at	
			home/remotely at least	shutdown policies) or unwilling to	and plan that is reviewed regularly	The Project continued to maintain its					home, work	
			until the end of April	perform these activities during this	and revised to address the current	ability to operate with staff working					from home	
			and some offices may	chaotic time. Planned SI on-site visits	state of the COVID-19 threat and	remotely, while COVID-related					order" that	
			be completely shut	will also likely be changed to remote	related impacts over the next 6 to 12	responsibilities continue to grow for					reduced	
			down until that time as	which could reduce the effectiveness of	months - In Progress - IV&V	CAMHD Leadership. The Governor					BHA's ability	
			well. Unclear if the	their project activities. Going forward	recommends updates to the OCM Plan	announced that potential furloughs					to be fully	
			order will extend	most if not all project activities will	to include any new activities or	and/or layoffs of State workers will no					functional in	
			beyond that date.	more than likely be conducted remotely	updates to planned activities to aid	longer be necessary based on the signing					the office.	
				until this crisis passes.	the organization through this COVID-	of the American Rescue Plan. IV&V has					The	
					19 situation in the short and long term	reduced the priority of this finding from					potential	
					- Open	Medium to Low and will continue to					DDD and	
						monitor moving forward. 02/28/2021 - As					CAMHD	
						reported in January, there were no					budget	
						substantive changes observed for this					challenges	
						finding in February. The Project continued					reported in	
						to maintain its ability to operate with staff					March were	
						working remotely. IV&V continues to note					also	
						that there may be potential future budget					overcome	
10.000	5/31/2020	The lack of design reviews for	There were a couple	If all requirements within a functional	IV&V recommends (and DOH has	that there may be potential future budget 07/31/2020 - The Project continues to to		Preliminary	N/A	Closed		
10.000	5/31/2020	The lack of design reviews for complex user stories has resulted	There were a couple incidents during May	If all requirements within a functional design are not met, users could	IV&V recommends (and DOH has commenced) conducting technical	07/31/2020 - The Project continues to to		Preliminary Concern	N/A	Closed	This process	
10.000	5/31/2020	complex user stories has resulted	incidents during May	design are not met, users could	commenced) conducting technical	07/31/2020 - The Project continues to to spend additional time on the designs of		Preliminary Concern	N/A	Closed	This process change to	
10.000		complex user stories has resulted in the promotion of incomplete	incidents during May where the code	design are not met, users could experience the inability to complete	commenced) conducting technical design reviews for complex user	07/31/2020 - The Project continues to to spend additional time on the designs of complex user stories during June to ensure			N/A	Closed	This process change to spend extra	
10.000		complex user stories has resulted	incidents during May where the code promoted to	design are not met, users could experience the inability to complete required processes, resulting in	commenced) conducting technical design reviews for complex user stories prior to development to	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			N/A	Closed	This process change to spend extra time on the	
10.000		complex user stories has resulted in the promotion of incomplete	incidents during May where the code promoted to production did not fully	design are not met, users could experience the inability to complete required processes, resulting in incomplete data collection and potentia	commenced) conducting technical design reviews for complex user stories prior to development to ensure designs are complete and all	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.			N/A	Closed	This process change to spend extra time on the design of	
10.000		complex user stories has resulted in the promotion of incomplete	incidents during May where the code promoted to production did not fully meet all requirements	design are not met, users could experience the inability to complete required processes, resulting in	commenced) conducting technical design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the	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			N/A	Closed	This process change to spend extra time on the design of complex	
10.000		complex user stories has resulted in the promotion of incomplete	incidents during May where the code promoted to production did not fully meet all requirements of associated user	design are not met, users could experience the inability to complete required processes, resulting in incomplete data collection and potentia	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	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			N/A	Closed	This process change to spend extra time on the design of complex user stories	
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11.000	7/31/2020	DDD Project resource shortages	The user adoption and	The significance and impact of OCM can		03/31/2021 - The DDD staff who've been	Project Management	Risk	N/A	Closed	-	Darren Macdonald
		may have a continued negative	training efforts are	never be understated. It is clearly a best	much as possible within its sphere of	part of the review process are pleased					staff who've	
		effect on user adoption, training,	hampered based on	practice that best that all staff utilize the	· ·	with the quality of the videos produced					been part of	
		and overall OCM activities.		solution in the same manner.	and training. This includes	within the toolset and have determined					the review	
			has stated that its users	Variations in how the system is utilized	procurement of the online training	that the toolset is a very helpful training					process are	
				by its users is likely to cause variations	toolsets to offset the need for in-	tool for DDD staff and providers. As such,					pleased with	
			be utilizing the system	in data collection and analytical efforts	person training, and adding staff as	IV&V is closing this finding.02/28/2021 -					the quality	
			to its fullest extent in	using the data collected.	needed to support OCM and technical	Training videos using the new toolset were					of the videos	
			terms of system		efforts. IV&V recommends DOH	nearing completion by the end of					produced	
			workflow, provide their		perform a detailed investigation of the	February. DOH is currently reviewing the					within the	
			insights and input,		specific variations as to how the	drafts of the second set of videos and					toolset, and	
			follow up, etc. To assist		system is currently being used by the	work is progressing well. IV&V will					have	
			in OCM activities, DDD		user community. Consequently, users	continue to monitor this finding until DDD					determined	
			has defined the need		would be provided with constructive	has had sufficient time to determine the					that the	
			for an interactive		feedback on how the system should	overall quality of the training work					toolset is a	
			training tool to support		be utilized where gaps exist. This will	products and whether the new toolset is					very helpful	
			Inspire.		likely lead to additional refresher	addressing user adoption and staffing					training tool	
			·		training to close identified system	shortages for these task efforts.					for DDD staff	
					knowledge gaps.	01/31/2021 - Training design activities					and	
						using the interactive training toolset					providers.	
						commenced in January and has attained						
						good progress. The use of this tool is					()	
						expected to provide some bandwidth					()	
											()	
						relief for DDD staff members responsible					()	
						for onboarding new staff members and					()	
						providers, and to provide refresher					()	
						training to existing staff members. IV&V					()	
						will continue to monitor this					\longrightarrow	
12.000	8/31/2020	PII/PHI data in non-production	IV&V has been made	Failure to secure PII/PHI data leaves the	IV&V recommends DOH consider	11/30/2021 - There was no substantive	Project Management	Issue	Medium	Open	(Darren Macdonald
		environments	aware that PII/PHI data	organization open to highly targeted	limiting the volume of environments	change to this finding in November. This					1	
			currently exist in a non-	social engineering attacks, heavy	with PII/PHI data and access necessary	effort continues to remain on hold until					1	
			production	regulatory fines, and loss of client trust	to support development work, which	additional staff are available to address					1	
			environment to meet	and loyalty.	should help minimize this risk.	this issue. IV&V notes that a Security					1	
			project needs.		IV&V recommends if production data	Assessment is planned for the first quarter					1	
			Generally this is not a		is necessary in any non-production	of next year which will likely require BHA					1	
			good security practice		environment that DOH establishes a	to act on this finding. IV&V will continue to					1	
			as the presence of		plan for effectively managing the	1					(
			1		I have been all the second and the s	monitor this medium criticality moving					t 1	
			PII/PHI data in non-		security of the PII/PHI data, including	forward.						
			PII/PHI data in non- production									
			'		security of the PII/PHI data, including	forward. 10/31/2021 - There was no substantive						
			production		security of the PII/PHI data, including the potential masking of data.	forward. 10/31/2021 - There was no substantive						
			production environments increases		security of the PII/PHI data, including the potential masking of data. IV&V recommends that DOH mitigates	forward. 10/31/2021 - There was no substantive change to this finding in October. This						
			production environments increases the potential for theft, loss or exposure thus		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	forward. 10/31/2021 - There was no substantive change to this finding in October. This effort continues to remain on hold until additional staff are available to support.						
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			production environments increases the potential for theft, loss or exposure thus increasing the organization's risk. Failure to secure PII/PHI		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	forward. 10/31/2021 - There was no substantive change to this finding in October. This effort continues to remain on hold until additional staff are available to support. IV&V will continue to monitor this medium priority security finding. 09/30/2021 - There was no substantive						
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13.000	8/31/2020	Project not able to access Activity	The Project recently	The unavailability of activity logs may	IV&V recommends that DHS continues	03/31/2021 - Per BHA, this finding is no	Release/Deployment	Risk	N/A	Closed	Finding has	Darren Macdonald
		Logs	deployed audit log	hamper the investigation of future	to collaborate with Microsoft until the	longer an issue and recommends closure.	Planning		,		been	
			functionality into	security breaches.		IV&V is closing this finding.02/28/2021 -					resolved.	
			production whereby		all BHA non-production environments.							
			these logs can be		1	despite a workaround being necessary						
			accessed and exported			from Microsoft due to a layering issue.						
			as needed. However,			Based on continued delays, it is unclear						
			IV&V was made aware			when this important security activity will						
			access to activity			be completed. IV&V will continue to						
			logging for users with			monitor this finding. (Per Kamu, this status						
			just view permissions			information did not correctly reflect the						
			will not be available			issue as the layering issue has no relation						
			from Microsoft in the			to the activity logs.)01/31/2021 - The						
			public sector			implementation effort for this activity						
			environment until the			moved forward in January. Some of the						
			end of September 2020.			entities will have activity logging						
			The unavailability of			completed in the planned early February						
			these specific activity			Release 3.12, while others will be delayed						
			logs could potentially			until Release 3.13. IVV will continue to						
			hamper the			monitor. 12/31/2020 - The planning effort						
			investigation of future			for identifying the entities that will require						
			security events until			activation of the new activity logs was						
			implemented.			completed during December. The						
						implementation effort has been prioritized						
						for inclusion in Release 3.12. IV&V will						
						continue to monitor this finding until						
						implemented. 11/30/2020 - The DOH						
						technical team has commenced the						
14.000	9/30/2020	Due to multiple quality concerns,	System defects	The identified quality issues have	Evaluate existing project staff skills	11/30/2021 - R3.19 was promoted to	Project Management	Issue	Medium	Open		Darren Macdonald
		the project may continue to face		negatively affected DOH billing	and experience level to ensure they	production as an FSU on 11/14/2021.						
		impactful system defects.	affected claims were	processes and DOH has stated these are	meet BHA support requirements.	Eight non-critical issues were identified						
			due to multi-faceted	the most impactful defects discovered	Perform revenue neutrality fiscal	following the release and were						
			quality issues were	to date.	balance testing on a quarterly basis to	determined to be a combination of testing						
			individually addressed		ensure revenues are as expected.	(defects) and promotional issues. The						
			during this reporting		Assign dedicated resources to provide							
			period. IV&V notes that			Project continues to employ good quality			l			
					oversight of CAMHD Fiscal Processes.	improvement practices and conducted a						
			there is one remaining		oversight of CAMHD Fiscal Processes.							
			defect still being		oversight of CAMHD Fiscal Processes. Monitor implemented improvements for effectiveness.	improvement practices and conducted a R3.19 postmortem for the post-production issues. As a result, several quality						
			defect still being evaluated that affects a		oversight of CAMHD Fiscal Processes. Monitor implemented improvements for effectiveness. IV&V recommends performing an RCA	improvement practices and conducted a R3.19 postmortem for the post-production issues. As a result, several quality improvement action items were identified						
			defect still being evaluated that affects a limited number of		oversight of CAMHD Fiscal Processes. Monitor implemented improvements for effectiveness. IV&V recommends performing an RCA in collaboration with RSM after all	improvement practices and conducted a R3.19 postmortem for the post-production issues. As a result, several quality improvement action items were identified to ensure requirements are current and						
			defect still being evaluated that affects a limited number of claims. Overall, the		oversight of CAMHD Fiscal Processes. Monitor implemented improvements for effectiveness. IV&V recommends performing an RCA in collaboration with RSM after all future release deployments for	improvement practices and conducted a R3.19 postmortem for the post-production issues. As a result, several quality improvement action items were identified to ensure requirements are current and for implementing future Solution						
			defect still being evaluated that affects a limited number of claims. Overall, the Project Team has		oversight of CAMHD Fiscal Processes. Monitor implemented improvements for effectiveness. IV&V recommends performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement.	improvement practices and conducted a R3.19 postmortem for the post-production issues. As a result, several quality improvement action items were identified to ensure requirements are current and for implementing future Solution Upgrades. Lessons learned were also						
			defect still being evaluated that affects a limited number of claims. Overall, the Project Team has responded with a		oversight of CAMHD Fiscal Processes. Monitor implemented improvements for effectiveness. IV&V recommends performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement. BHA and RSM to collaborate on the	improvement practices and conducted a R3.19 postmortem for the post-production issues. As a result, several quality improvement action items were identified to ensure requirements are current and for implementing future Solution Upgrades. Lessons learned were also identified for the technical issues						
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15.000	10/5/2020	Users of Consenting and IDM for	The construction of the	D-flk	D-fit	04/24/2024 The rest of her read areas	Ttd KT	Destinate and	N/A	Classed	The constant	Dawaa Maadaadd
15.000	10/5/2020	Usage of Semantics and IDM for	The project noted its intent to obtain more	Default	Default	01/31/2021 - The project has made great	Targeted KT	Preliminary Concern	IN/A	Closed	The project has made	Darren Macdonald
		development and ongoing				strides addressing this concern. A		Concern				
		maintenance of the system	targeted knowledge			Semantics Layer KT session was conducted					good	
		requires BHA to take a proactive	transfer of both the			on 1/29/21 and multiple IDM and					progress	
		approach to support of these tools.	Semantics Reporting			Semantic Layer sessions has been					establishing and initial	
		toois.	and IDM tools. IV&V			scheduled in February. IV&V is closing this						
			will continue to monitor			finding as we no longer view this item as a					execution of	
			this concern.			concern.12/31/2020 - IV&V is aware that					the IDM and	
						an overview of the Semantics Layer KT					Semantics	
						session was held on 12/16/20. The					Layer KT	
						planning effort will result in additional					plan.	
						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					-	
16.000	10/27/2020	The bandwidth of CAMHD	CAMHD has been	CAMDH Leadership participation in key	1	06/30/2021 - As anticipated, the CAMHD	Project Management	Risk	N/A	Closed	l I	Darren Macdonald
		Leadership is being hampered by	provided with an	activities could be significantly hindered		Leadership time dedicated to the Project					Leadership	
		planning tasks and activities for	approval to commence	by the flood of activities that could	management staffing for planning	has returned to normal and expected					time	
		assessing project expansion to	planning efforts for	occur as the department assesses	Phase 4 and M&O work.	levels. As such, IV&V is closing this finding.					dedicated to	
		other divisions.	expansion of the	expansion of this project to the balance		05/31/2021 - As anticipated, CAMHD					the project	
			project for ADAD and	of divisions.		Leadership time spent on efforts outside					has returned	
			AMHD & HSH. CAMHD			of the Inspire Project reduced during May.					to normal.	
			Leadership currently			This level of effort decreased to						
			spends 25% of their			approximately 10% of available time in	1		1			
			available time			May, largely for the planning of the						
			dedicated to this			Max/Inspire divisional expansion effort.	1		1			
			planning effort.			As such, IV&V is reducing the priority of						
						this finding from Medium to Low and will	1		1			
						continue to monitor.04/30/2021 - CAMHD	1		1			
						Leadership time spent on efforts outside						
						of the INSPIRE Project continued to	1		1			
						increase during early April but has	1		1			
1	1					decreased at the end of the month.	1		1			
						Approximately 60-70% of Leadership time			1	1	1	
						1						J
						was spent on Phase 4 Planning, COVID						
						was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine						
						was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The						
						was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to						
						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						
						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						
						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						
						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						

17.000	11/20/2020	Don't a seriet at the desired in the	The IDMA and Comments	D-flk	D/07/	00/24/2024 The second on of income	D-1/D1		Ini/a	Classed	Th	Danier Maradan dal
17.000	11/30/2020	Due to consistent technical issues	The IDM and Semantic	Default	IV&V recommends the project to	08/31/2021 -The number of issues	Release/Deployment	Issue	N/A	Closed	The volume	Darren Macdonald
		requiring escalation to Microsoft,	layer efforts have		continue to monitor the status of	requiring assistance from Microsoft	Planning				OT	
		some project efforts are being	experienced several		outstanding Microsoft tickets and to	continues to remain limited, and as such,					interactions	
		delayed.	delays attributable to		escalate the priority of these tickets as						needed with	
			issues escalated to		deemed necessary.	While the number of issues requiring					Microsoft	
			Microsoft. The issues			assistance from Microsoft remains limited,					remains low	
			have ranged from			interactions with Microsoft are increasing					and	
			administrative /			again due to the interface functionality					manageable.	
			communication			planned for implementation in the current					This	
			(entering issues into the			and remaining DD&I releases. The FHIR					condition is	
			Commercial support			API interface has required multiple					no longer	
			instance vs the			interactions with Microsoft that have					impeding	
			Government Cloud			resulted in unplanned schedule slippages					project	
			support instance), to			for the FHIR API implementation. IV&V will					progress.	
			several key technical			continue to monitor this finding.						
			issues requiring			06/30/2021 - The number of issues						
			assistance to resolve.			requiring assistance from Microsoft						
			To date, these support			continues to be low with only two known						
			needs have added over			items open. As such, IV&V is reducing the						
			a month to the IDM and			priority of this finding to low and will						
			Semantic Layer project			continue to monitor.05/31/2021 - There is						
			schedules.			only one open Microsoft ticket affecting						
			scriedules.			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				_		
18.000		Due to on-going deployment	There have been	Repeatable documented release and	Ensure there are adequate and	11/30/2021 - R3.19 was promoted to	Release/Deployment	Issue	Medium	Open		Darren Macdonald
		processes and technical execution	several defects pushed	deployment will help ensure that	qualified resources to support the	production as an FSU on 11/14/2021.	Planning					
		issues, the Project may continue to		mistakes are minimized, and that	current deployment processes. This	Eight non-critical issues were identified						
		0	Phase 3 releases. Some	functionality is not mistakenly	may require the support from RSM	following the release, which was a						
			of the defects	deprecated when deployments take	resources to provide assistance and	combination of coding and deployment		l			1 1	
		production and non-production			•							
		production and non-production	introduced to	place.	knowledge transfer for some of the	issues. The Project has decided to perform						
		deployments.	introduced to production have been	place.	knowledge transfer for some of the more complex deployment							
		· · ·		place.	1 -	issues. The Project has decided to perform						
		· · ·	production have been	place.	more complex deployment	issues. The Project has decided to perform an FSU every other release. Additionally,						
		· · ·	production have been narrowed down to	place.	more complex deployment components.	issues. The Project has decided to perform an FSU every other release. Additionally, the Project is entertaining weekend efforts						
1		· · ·	production have been narrowed down to environmental	place.	more complex deployment components. Work in collaboration with RSM to	issues. The Project has decided to perform an FSU every other release. Additionally, the Project is entertaining weekend efforts for FSUs if needed. IV&V will continue to						
II.		· · ·	production have been narrowed down to environmental promotional activities.	place.	more complex deployment components. Work in collaboration with RSM to establish a transition plan for DOH to	issues. The Project has decided to perform an FSU every other release. Additionally, the Project is entertaining weekend efforts for FSUs if needed. IV&V will continue to monitor this medium criticality finding.						
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19.000	3/28/2021	contract end.	The RSM contract for Phase 3 is currently planned to complete in September 2021. BHA will need a transition plan to ensure that it has all knowledge transfer and is fully capable of managing all aspects of supporting and maintaining the D365 solution without vendor support until at least the Phase 4 expansion effort is procured and initiated. The Phase 4 effort is currently expected to commence late in the 4th quarter of 2021, or early in the first quarter of 2022. The Phase 4 procurement scope is planned to include additional DD&I activities, as well as M&O support activities.	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 is still pending approval. This amendment will extend the DD&I effort (Mod 5) to the end of December 2021 and will also provide M&O services (Mod 6) through May 2022. Mod 5 is expected to be approved in May 2021. This will delay the near-term need for a Transition Plan until first quarter 2022. IV&V will continue to monitor this finding.	Project Management	Preliminary Concern	N/A	Closed	amendments were fully executed in May 2021.	ic Dudoit
20.000	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 reassigned 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 staff to return fully to their technical staff to return fully to their technical 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 reassigned to other DDD staff. IV&V notes that this results in some level of bandwidth/workload challenges for DDD technical staff.	Project Management	Issue	N/A	Closed	The DDD D Project Manager has returned from her leave, fully mitigating this issue.	parren Macdonald

24.000	C /00 /0004		I=	I- 1	I= 1				1.		1-	
21.000	6/30/2021	Unplanned rework may have an	The continued volume	Release defect metrics for unplanned	Reduce the amount of unplanned	11/30/2021 - The percentage of defects vs	Project Management	Issue	Low	Open	ļc	Darren Macdonald
		impact on delivering DDI	of unplanned rework	rework has been 30-40% of the total	rework by continuing to focus on	planned user stories and requests						
		Functionality by the end of the DDI		USPs for the last few releases.	quality improvement measures.	continued to improve during November.						
		period.	delivering planned DDI		Strive for defect performance metric	The defect percentage (26%) in November						
			functionality with only 4		not to exceed 20% of all user story	was lower than it has been in any of the						
			possible DDI releases		points in any given release.	previous 4 months and is close to the						
			remaining for			target of 20% or less of the USP's deployed						
			completion.			to production. IV&V will continue to						
						monitor this finding.						
						10/31/2021 - There were no substantive						
						changes to this finding during October and						
						there was not a planned release in						
						October to measure defect percentages.						
						IV&V is moving this preliminary finding to						
						a low issue and will continue to monitor						
						unplanned rework and defects.						
						09/30/2021 - Defect resolution remained						
						at 38% of all delivered user story points						
						during August and September. While						
						slightly improved over previous months,						
						the Project continues to see a higher-than-						
						expected volume of unplanned rework						
						due to the amount of defect fixes released						
						to production. IV&V will continue to						
						monitor this preliminary concern moving						
						forward.						
						08/31/2021 - Unplanned rework						
						continues. Defect remediation constituted						
22,000	7/20/2021	The president cohodules for this	The CLUD interfere and	Mankle BCM Chabres Donard	Fixed the surrent DDI time of reme to		Duningt Management	leave	Low	Onon		Damen Mandanald
22.000	7/30/2021	The project schedules for 'big	The FHIR interface and	Weekly RSM Status Report	Extend the current DDI timeframe to	11/30/2021 - 'Big Boulder' prioritized	Project Management	Issue	Low	Open	[Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are	Weekly RSM Status Report	allow for the completion of 'big	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation	Project Management	Issue	Low	Open	С	Darren Macdonald
22.000	7/30/2021		CAFAS interface are currently at risk of not	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during	Project Management	Issue	Low	Open	С	Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development.	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays	Project Management	Issue	Low	Open		Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities.	Project Management	Issue	Low	Open	С	Oarren Macdonald
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22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were	Project Management	Issue	Low	Open	С	Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE interface are also	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support the development of "big boulder'	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the	Project Management	Issue	Low	Open	C	Darren Macdonald
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22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support the development of "big boulder'	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the associated user stories are delayed to R3.20. The Power BI Reports and the Provider Interface files have been rescheduled and are now spread between R3.20 and R3.21. The CAFAS Interface, Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface have been rescheduled for R3.21. The Customer Portal Rollout is scheduled for R3.21 and the	Project Management	Issue	Low	Open	C	Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support the development of "big boulder'	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the associated user stories are delayed to R3.20. The Power BI Reports and the Provider Interface files have been rescheduled and are now spread between R3.20 and R3.21. The CAFAS Interface, Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface have been rescheduled for R3.21. The Customer Portal Rollout is scheduled for R3.21 and the ePrescribe effort is scheduled for R3.21 or	Project Management	Issue	Low	Open		Oarren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder'	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support the development of "big boulder'	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the associated user stories are delayed to R3.20. The Power BI Reports and the Provider Interface files have been rescheduled and are now spread between R3.20 and R3.21. The CAFAS Interface, Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface have been rescheduled for R3.21. The Customer Portal Rollout is scheduled for R3.21 and the ePrescribe effort is scheduled for R3.21 or R3.22. IV&V will continue to monitor this	Project Management	Issue	Low	Open		Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder' interfaces, including identification of the	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support the development of "big boulder'	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the associated user stories are delayed to R3.20. The Power BI Reports and the Provider Interface files have been rescheduled and are now spread between R3.20 and R3.21. The CAFAS Interface, Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface have been rescheduled for R3.21. The Customer Portal Rollout is scheduled for R3.21 and the ePrescribe effort is scheduled for R3.21 or R3.22. IV&V will continue to monitor this low issue.	Project Management	Issue	Low	Open		Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support the development of "big boulder'	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the associated user stories are delayed to R3.20. The Power BI Reports and the Provider Interface files have been rescheduled and are now spread between R3.20 and R3.21. The CAFAS Interface, Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface have been rescheduled for R3.21. The Customer Portal Rollout is scheduled for R3.21 and the ePrescribe effort is scheduled for R3.21 or R3.22. IV&V will continue to monitor this low issue. 10/31/2021 - Schedule slippage for the prioritized features (big boulders)	Project Management	Issue	Low	Open		Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support the development of "big boulder'	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the associated user stories are delayed to R3.20. The Power BI Reports and the Provider Interface files have been rescheduled and are now spread between R3.20 and R3.21. The CAFAS Interface, Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface have been rescheduled for R3.21. The Customer Portal Rollout is scheduled for R3.21 and the ePrescribe effort is scheduled for R3.21 or R3.22. IV&V will continue to monitor this low issue. 10/31/2021 - Schedule slippage for the prioritized features (big boulders) continued during October. The final	Project Management	Issue	Low	Open		Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support the development of "big boulder'	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the associated user stories are delayed to R3.20. The Power BI Reports and the Provider Interface files have been rescheduled and are now spread between R3.20 and R3.21. The CAFAS Interface, Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface have been rescheduled for R3.21. The Customer Portal Rollout is scheduled for R3.21 and the ePrescribe effort is scheduled for R3.21 or R3.22. IV&V will continue to monitor this low issue. 10/31/2021 - Schedule slippage for the prioritized features (big boulders) continued during October. The final components of the Clinical Review Process	Project Management	Issue	Low	Open		Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS and HHIE interfaces are	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support the development of "big boulder'	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the associated user stories are delayed to R3.20. The Power BI Reports and the Provider Interface files have been rescheduled and are now spread between R3.20 and R3.21. The CAFAS Interface, Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface have been rescheduled for R3.21. The Customer Portal Rollout is scheduled for R3.21 and the ePrescribe effort is scheduled for R3.21 or R3.22. IV&V will continue to monitor this low issue. 10/31/2021 - Schedule slippage for the prioritized features (big boulders) continued during October. The final components of the Clinical Review Process are to be deployed to production in R3.19.	Project Management	Issue	Low	Open		Darren Macdonald
22.000	7/30/2021	boulder' interface functionality	CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder' interfaces, including identification of the timing needs by the business teams. At a minimum, the CAFAS	Weekly RSM Status Report	allow for the completion of 'big boulder' interfaces functionality development. BHA to add more resources to support the development of "big boulder'	11/30/2021 - 'Big Boulder' prioritized features/functionality implementation schedules continued to slip during November largely due to interface delays working with multiple third-party entities. Some components of the Provider Portal and Calculator 3.0 upgrades were deployed in R3.19 and the balance of the associated user stories are delayed to R3.20. The Power BI Reports and the Provider Interface files have been rescheduled and are now spread between R3.20 and R3.21. The CAFAS Interface, Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface have been rescheduled for R3.21. The Customer Portal Rollout is scheduled for R3.21 and the ePrescribe effort is scheduled for R3.21 or R3.22. IV&V will continue to monitor this low issue. 10/31/2021 - Schedule slippage for the prioritized features (big boulders) continued during October. The final components of the Clinical Review Process	Project Management	Issue	Low	Open		Darren Macdonald

22.000	7/24/2024	T-1	I=1	le	[a]	L. (20 /2004 T)	la · · · · ·		l	0	l l	
23.000	7/31/2021	The current DDI period expires at	The current Project	Existing contractual agreements.	Obtain IAPDU approval from CMS.	11/30/2021 - There were no substantive	Project Management	Issue	Low	Open		Darren Macdonald
		the end of December 2021 which	Staffing Model shows a			changes to this finding observed during						
		will require RSM to transition of	planned reduction in			November. In late October, PAC approved						
		the D365 solution to the State	RSM resources support			the funding request for extending DD&I						
		prior to contract end.	starting in September			through October 2022 followed by M&O						
			2021 through			through May 2023. IAPDU submittal and						
			December 2021. Prior			approval is still needed to secure Federal						
			to this timeframe, BHA			funding.						
			should commence the			10/31/2021 - Near the end of October, the						
			development of a			PAC approved the funding request for						
			transition plan to			extending DD&I through October 2022,						
			ensure the appropriate			followed by M&O through May 2023.						
			replacement State			IAPDU submittal and approval is still						
			resources are			needed to secure Federal funding.						
			identified/secured and			09/30/2021 - The Project continues						
			the necessary			discussions for extending the DD&I effort						
			knowledge transfer			while the previously planned slowdown of						
			sessions are planned			DD&I work continues through the						
			and executed with RSM.			remainder of the 2021 calendar year. A						
			BHA will need to be			new IAPDU is being developed for						
			sure they are ready to			submittal with a goal to obtain funding for						
			take on the			technical project resources through May						
			development of user			2023. IV&V will continue to monitor.						
			stories, testing,			08/31/2021 - The Project is in discussions						
			deployment, and the			to potentially extend the DD&I effort,						
			support and			while the previously planned slowdown of						
			maintenance of the			efforts will continue through the balance						
			entire system by the			of the 2021 calendar year. IV&V will						
24.000	10/29/2021	The R3.19 Solution Upgrade	Solution upgrades are	Daily Scrum Reporting	Ensure there are adequate and	11/30/2021 - R3.19 was promoted to	Project Management	Iccus	High	Closed	Technical	
24.000	10/23/2021	technical issues are delaying the	essential for keeping	Daily Scrutti Reporting	qualified resources to support the	production as an FSU on 11/14/2021 and	Project Management	issue	Ingn	Closed	issue	
		technical issues are delaying the	lesseminal for keeping		Idualitied resources to support the							
		implementation of the release and	the system surrent in		1.1	l'						
1		implementation of the release and			current Solution Upgrade processes.	access to the development and test					resolved and	
		the ability for staff to develop and	order to gain access to		current Solution Upgrade processes. This may require the support from	access to the development and test environments was again restored. Because					resolved and were	
			order to gain access to new features that		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance	access to the development and test environments was again restored. Because the solution upgrade was the first in five					resolved and were attributed to	
		the ability for staff to develop and	order to gain access to new features that enhance productivity,		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer.	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took					resolved and were attributed to the	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did					resolved and were attributed to the following:	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI					resolved and were attributed to the following: • Import of	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in					resolved and were attributed to the following: • Import of solution	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost					resolved and were attributed to the following: • Import of solution taking 1-2	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding,					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD,	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches for 5 releases (R3.15-		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021.					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD, so had to	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches for 5 releases (R3.15- R3.19) is causing		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021.					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD, so had to restore and	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches for 5 releases (R3.15- R3.19) is causing technical issues. As a		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD, so had to restore and then restart	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches for 5 releases (R3.15- R3.19) is causing		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021.					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD, so had to restore and	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches for 5 releases (R3.15- R3.19) is causing technical issues. As a		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD, so had to restore and then restart	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches for 5 releases (R3.15- R3.19) is causing technical issues. As a result, R3.19+		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD, so had to restore and then restart from a previous point in time	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches for 5 releases (R3.15-R3.19) is causing technical issues. As a result, R3.19+ development and		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD, so had to restore and then restart from a previous	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches for 5 releases (R3.15-R3.19) is causing technical issues. As a result, R3.19+ development and testing work is		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 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,					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD, so had to restore and then restart from a previous point in time	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches for 5 releases (R3.15-R3.19) is causing technical issues. As a result, R3.19+ development and testing work is hampered until these		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 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					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD, so had to restore and then restart from a previous point in time backup	
		the ability for staff to develop and	order to gain access to new features that enhance productivity, eliminate bottlenecks and govern sensitive information. The current R3.19 solution upgrade work efforts that includes patches for 5 releases (R3.15-R3.19) is causing technical issues. As a result, R3.19+ development and testing work is hampered until these technical issues are		current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer. As appropriate, consult with RSM on best practices that BHA could employ	access to the development and test environments was again restored. Because the solution upgrade was the first in five (5) releases, the deployment process took approximately 12 hours. This issue did have an impact both on the amount of DDI functionality (reduced) included in downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 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					resolved and were attributed to the following: • Import of solution taking 1-2 hours, timed out in PROD, so had to restore and then restart from a previous point in time backup • Errors are	
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