

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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November 17, 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

October 1 – October 31, 2021

Final submitted: November 8, 2021



Agenda

Executive Summary

IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





Executive Summary

There were no production releases in October as the project focused on the R3.19 production deployment which was planned for 11/4/2021. Due to the current R3.19 Solution Upgrade issues, the release has been delayed and the Project established a new tentative go-live date of 11/10/2021 pending resolution of the outstanding issues.

The implementation of dates of 'big boulder' interfaces functionality continued to slip in October which is attributed to several reasons including but not limited to resource constraints, third-party vendor delays, and outstanding technical issues.

IV&V will continue to monitor the implementation progress of the 'big boulder' interfaces functionality as well as the critical BHA resource constraint finding moving forward.

Aug	Sep	Oct	Category	IV&V Observations	
R	R	R	Sprint Planning BHA anticipates the selection of a candidate for their open ITS4 position in November The approval to post the second mid-level technical resource is pending. The Project discussing 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 October reporting period.		
G	G	User Story (US) Validation There are no active findings in User Story (US) Validation category which remains Gr (low criticality) for the October reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.		1 \ 1	
			Test Practice	There were no production deployments in October. The Project discovered one R3.18 post-production defect was caused by the deployment of an old version of the HSRI flow. Despite multiple testing cycles, this issue was not found prior to the deployment.	
Y	Y	Y	Validation	BHA continued its efforts to implement 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.	



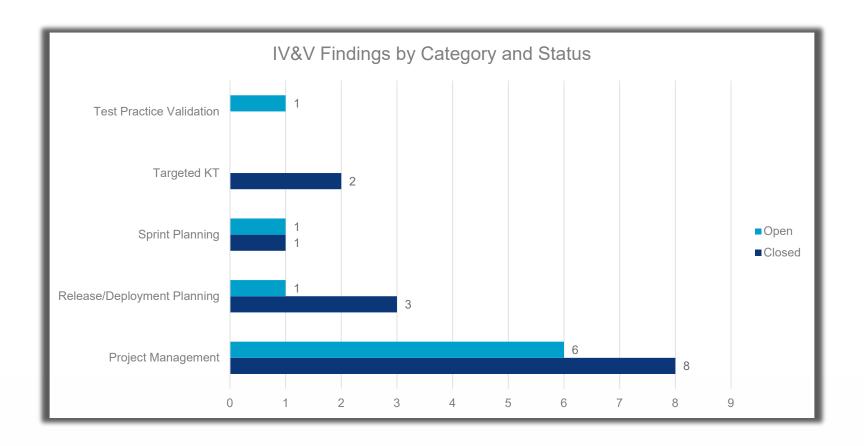
Executive Summary

Aug	Sep	Oct	Category	IV&V Observations	
R	R	R	Release / Deployment Planning	There were no production releases in October. One R3.18 post-production defect was attributed to an old version of a workflow being deployed to production. IV&V will continue to keep the rating for this category a Red (high) and will monitor for sustained improvements.	
G	G	G	OJT and KT Sessions	The criticality rating for the OJT and KT Sessions category remains Green (low) for the October reporting period with no active findings.	
G	G	G	Targeted KT	There are no active findings in this category which remains Green (low criticality) for the October reporting period. IV&V will continue to monitor this category moving forward.	
G	G	G	Project Performance Metrics There were not production releases in October. As a result, there are no project performance metrics to report. 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 PCG conducted an Organizational Maturity Assessment with the BHA Team on October 6, 2021. A summary of the assessment and our recommendations are documented in Appendix C of this status report. The criticality rating for the Organization Maturity Assessment (OMA) category remains Green (low).		
Y	Y	Y	Project Management	IV&V has converted our preliminary concerns for unplanned rework, delivery of 'big boulder' interfaces functionality, and the ability for the Project to deliver outstanding DDI work before the RSM contract ends to low issues. The Project continues to address each of these items. The criticality rating for this category remains a Yellow (medium) for the October reporting period.	



Executive Summary

As of the October 2021 reporting period, there are a total of nine open findings – two High Issues, 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 will verify and validate activities performed in the following process areas:

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



IV&V Findings & Recommendations Sprint Planning

#	Key Findings	Criticality Rating
7	High Issue - The BHA Technical Team bandwidth may not be adequate to meet the needs of the project, which could compromise project productivity. BHA interviewed multiple candidates for the open ITS4 position in October, and selection is anticipated in early November. BHA has not received approval to post its second (lower level) technical position. IV&V will continue to monitor this high priority issue until resolved.	B

Recommendations	Status
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. The project determined that a formal RCA was not warranted for R3.18, which was deployed into production in late September. Four post-deployment issues were identified to date, with one of them attributable to the release that was caused by the deployment of an old version of the HSRI flow. This was not identified by the regression test or the post deployment smoke test.	M
	During October, BHA continued its efforts to implement an automated regression tool as they await a proof of concept for the Eggplant tool to compare with Microsoft's EasyRepro tool. IV&V will continue to monitor this finding.	

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 full solution upgrade releases. In addition, consider alternating the DDD and CAMHD scripts every other release. 	Completed
 Modifying regression test scripts to start AFTER case creation, limiting the time it takes to execute. (This recommendation was for a point in time and is no longer valid.) 	Completed
• 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. One post-R3.18 issue was determined to be deployment related and caused by the deployment of an incorrect (older) version of the HSRI flow.	M
	IV&V continues to note that the next release (R3.19) will be deployed as a full solution upgrade, which includes a compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding.	

Recommendations	Status
 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. 	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. During October, the project determined that a formal RCA was not warranted for R3.18, which was deployed to production in late September. Four post-deployment issues were identified. One was caused by the deployment of an incorrect (older) version of the HSRI flow. IV&V will continue to monitor this medium priority finding related to overall quality.	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
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



Recommendations	Status
 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
12	Medium Issue – PII/PHI data in non-production environments. 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.	M

Recommendations	
 IV&V recommends DOH consider limiting the volume of environments with PII/PHI data and access necessary to support development work, which should help minimize this risk. 	Open
• IV&V recommends if production data is necessary in any non-production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data.	In Progress
 IV&V recommends that DOH mitigates this finding by minimizing and/or masking PHI/PII data in designated non-production environments. 	In Progress



#	Key Findings	Criticality Rating
21	Changed from Preliminary Concern to Low Issue – Unplanned rework may have an impact on delivering DDI functionality by the end of the DDI period. 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.	•

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.	New



#	Key Findings	Criticality Rating
22	Changed from Preliminary Concern to Low Issue – The project schedules for 'big boulder' interfaces functionality development are slipping. 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. The Provider Portal, Calculator 3.0 upgrades, and Power BI Reports are now spread between R3.19 and 3.20. The Hawaii Health Information Exchange (HHIE) ADT (Admit, Discharge, and Management) Interface, Provider Interface Files, and CAFAS Interface are now all delayed to R3.20.	L
Recommendations		Status
• Ext	end the current DDI timeframe to allow for the completion of 'big boulder' interfaces functionality	In Progress

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	Changed from Preliminary Concern to 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. Near the end of October, the 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.	L

Recommendations	Status
Obtain IAPDU approval from CMS.	In Progress



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

#	Key Findings	Criticality Rating
24	New 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. Due to the current R3.19 Solution Upgrade technical issues, staff have been advised to stay out of the development and test environments until the issues have been resolved. As a result, development and testing for R3.19 and forward are affected by this issue. IV&V will continue to monitor this high priority issue until resolved.	(1)

Recommendations	Status
Ensure there are adequate and qualified resources to support the current Solution Upgrade processes. This may require the support from RSM resources to provide assistance and knowledge transfer.	In Progress
As appropriate, consult with RSM on best practices that BHA could employ to support the Solution Upgrade.	In Progress



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 	October – There were no production releases in October to report velocity performance metrics.	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 	October – There were no production releases in October to report defect performance metrics.	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.



The assessment category's risk and/or issues have been identified, and further mitigation is required to facilitate forward progress. The known impact of potential risks and known issues are likely to jeopardize the assessment category. Schedule issues are emerging (> 30 days but < 60 days late).

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

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



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

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

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



Appendix A

Finding Criticality Ratings

Criticality Rating	Definition
•	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be implemented as soon as feasible.
L	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.



Appendix B

Inputs

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

Meetings attended during the October 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 October 2021 reporting period:

- Daily Scrum Notes (selected)
- 2. Twice Weekly Issues Meeting Notes (selected)
- BHA-ITS Automated Testing Comparison_202-10-15.docx





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 Cot 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	e time of Backlog 2		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 Sumi	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:	Overal	l Projec	t Health	1						
Process Area					2020	-2021				
Process Area	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
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	11	10	11	8	8	8	10	8	8	9
Issue - high	0	4	4	4	4	4	4	2	1	2
Issue - medium	4	0	0	0	2	2	2	3	4	4
Issue - low	0	0	0	0	0	1	1	0	0	3
Risk - high	0	0	0	0	0	0	0	0	0	0
Risk - medium	2	2	2	4	0	0	0	0	0	0
Risk - low	3	4	4	0	1	0	0	0	0	0
Preliminary Concern	2	0	1	0	1	1	3	3	3	0





Solutions that Matter

D	Date Identified	Finding	Finding Statement	Supporting Analysis	PCG Recommendation	Finding Update	Process Area	Finding Type	Priority	Status	Closure Reas	Risk Owner
1.000		Detailed investigation into the project's sprint planning processes and adoption of generally accepted agile best practices.	IV&V is currently investigating the following topics as they relate to Sprint Planning and the project's overall approach to agile software development: - IV&V acknowledges that the project is now planning three sprints outs, however, it appears that only a "high-level" sprint planning roadmap has 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	release. This roadmap will help the project manage scope and productivity. Relatedly, the "definition done" is an important artifact to ensure that the project is	As much as possible, the project should identify what feature enhancements will be targeted for each Release and should clearly map out the roadmap out through the last Phase 3 release in September 2020. Additionally, the project should clearly define "Done" to ensure the project team is working towards the same goal and increase opportunities for success. Having a clear "definition of done" will help provide the project with guidance on how to stay within scope.	findings.	Sprint Planning	3. Preliminary Concern	4. N/A	3. Closed	Due to multiple new items being tracked at a more granular level, this item has been closed.	V Ramesh
2.000	12/31/2019	As a result of regression testing not being consistently performed, production releases are breaking and/or deprecating existing functionality in the production environment.		Thorough vetting and validation of regression test cases is necessary to prevent both defects and the deprecation of production functionality when a release is pushed live. When defects occur in production, the project should follow a defined and repeatable process for determining the root cause of the problem.	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. IV&V recommends DDD and CAMHD 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-production regression test efforts for all release deployments. Updating the regression test scripts to ensure consistency with system configuration. Modifying release schedules to allow for regression testing timeframes Planning releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution. Performing regression testing after every release, or possibly every other release, or potentially tying regression tests to full solution upgrade releases.	10/31/2021 - The project determined that a formal RCA was not warranted for R3.18, which was deployed into production in late September. Four post-deployment issues were identified to date, with one of them attributable to the release that was caused by the deployment of an old version of the HSRI flow. This was not identified by the regression test or the post deployment smoke test. During October, BHA continued its efforts to implement an automated regression tool as they await a proof of concept for the Eggplant tool to compare with Microsoft's EasyRepro tool. IV&V will continue to monitor this finding. 09/30/2021 - The Project's focus on the quality of end-to-end regression testing (for both divisions) again resulted in positive progress in September. R3.18 was promoted to production on 9/26/2021 with a few post-production issues that are currently being reviewed. The planned effort to develop automated regression testing remains on hold until additional resources are made available to the BHA Team. IV&V will continue to	Test Practice Validation	2. Issue	2. Medium	2. Work in Pro	gress	D Macdonald

3.000	12/21/2010	Licens of annual course laureCovint	IV&V learned in	On an annual to all and from annuals	IV(8) / reserves and a DUAarl. to	00/21/2020 1/07/ is unaccount of any	Taugatad VT	1. Risk	1. Low 3	3. Closed	RSM has	D Macdonald
3.000	12/31/2019	Usage of open source JavaScript		Open source tools and frameworks	IV&V recommends BHA work to	08/31/2020 - IV&V is unaware of any	Targeted KT	1. KISK	I. LOW	s. Closeu	successfully	Diviacuonalu
		framework for development and	December 2019 that the	offer organizations great	establish a reliable and repeatable	additional KT gaps being identified by						
		ongoing maintenance of Calculator	Calculator 3.0	opportunities to build and configure	process for keeping abreast of	DOH, and as such, is closing this					held several	
		3.0 requires BHA to take a proactive	functionality is built in	customized solutions at lower costs	communal updates and support	finding.07/31/2020 - The Project resolved					KT sessions	
		approach to support and security.	Vue.JS, an open source	than through software purchase or	opportunities for a new suite of tools -	the majority of the outstanding Calculator					for this	
			JavaScript framework.	licensing. However, open source tools	CompletedIV&V recommends BHA	3.0 defects during July which was					technology	
			As this framework is	and frameworks often do not come	continue to hold targeted KT sessions	implemented in the mid-sprint release on					and	
			relatively new, the open	with support models, other than	with RSM on maintaining Calculator 3.0	7/17/2020. The final Calculator 3.0					functionality	
			source support	those offered through the tool's	via a suite of tools, and determine what	Knowledge Transfer session was					, and DOH	
			community is small.	community. Because of this, the	additional skillsets, training, and/or	conducted on 7/17/2020. IV&V					staff have	
			IV&V's concerns	organization bears the weight of	resources are needed to support BHA's	recommends BHA to identify and					stated that	
			include: - The	seeking out reliable help and support,	long-term ownership of Calculator 3.0 -	communicate any additional KT gaps to					it was well	
			availability of reliable	as well as much take a proactive	Completed	RSM during the month of August. If no					received.	
			l ''			additional needs are identified, IV&V will						
				any vulnerabilities in the tools.		close this finding. 06/30/2020 - The						
			of any known			project continued to focus attention on						
			vulnerabilities with			the Calculator 3.0 defects during the						
			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						
4.000	1/31/2020	Due to the project not following a	There have been several	A complete, up to date, and	IVV recommends documenting	12/31/2020 - IV&V has closed this issue as	Release/Deployment	2. Issue	2. Medium	3. Closed	Key finding	D Macdonald
1				IA complete, up to date, and	i v recommends documenting	112/31/2020 - IV&V Has closed this issue as	Inclease/ Deployment	Z. 133UC	E. IVICUIUIII	J. CIOSCU	incy illium	
		detailed deployment script, the	defects pushed to	documented deployment script is	deployment scripts for both the patch	the related recommendations below has	Planning	2. 13300	E. Wicaram	J. Closeu	has been	
		1 ' '				1 ' '		2. 13300	E. Wiculum	s. closed	, ,	
		detailed deployment script, the	defects pushed to	documented deployment script is	deployment scripts for both the patch	the related recommendations below has		2. 13300	z. Mcdium		has been	
		detailed deployment script, the project may continue to experience	defects pushed to production with Phase 3	documented deployment script is needed to ensure the repeatability	deployment scripts for both the patch method and the full solution upgrade	the related recommendations below has been completed. A subsequent medium		2. 133ue	z. Wediam		has been addressed	
		detailed deployment script, the project may continue to experience defects related to deployment	defects pushed to production with Phase 3 releases. Some of the defects introduced to	documented deployment script is needed to ensure the repeatability and stability of DOH's production deployments. Since there are	deployment scripts for both the patch method and the full solution upgrade method. The script(s) should be in the form of a step-by-step procedure that	the related recommendations below has been completed. A subsequent medium issue finding (#19) has been opened to address ongoing deployment processes		2. 133uc	z. McGruiii		has been addressed and proposed	
		detailed deployment script, the project may continue to experience defects related to deployment	defects pushed to production with Phase 3 releases. Some of the	documented deployment script is needed to ensure the repeatability and stability of DOH's production deployments. Since there are currently two deployment types	deployment scripts for both the patch method and the full solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the	the related recommendations below has been completed. A subsequent medium issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues.		2. 133uc	z. McGruiii		has been addressed and	
		detailed deployment script, the project may continue to experience defects related to deployment	defects pushed to production with Phase 3 releases. Some of the defects introduced to production have been	documented deployment script is needed to ensure the repeatability and stability of DOH's production deployments. Since there are currently two deployment types (patches and full solution upgrades),	deployment scripts for both the patch method and the full solution upgrade method. The script(s) should be in the form of a step-by-step procedure that	the related recommendations below has been completed. A subsequent medium issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted		2. 133uc	z. medium i		has been addressed and proposed IV&V	
		detailed deployment script, the project may continue to experience defects related to deployment	defects pushed to production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental	documented deployment script is needed to ensure the repeatability and stability of DOH's production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An	deployment scripts for both the patch method and the full solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff	the related recommendations below has been completed. A subsequent medium issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020.		2. 133uc	z medium c		has been addressed and proposed IV&V recommend ations have	
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		detailed deployment script, the project may continue to experience defects related to deployment	defects pushed to production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment (missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2 with RSM providing instruction and DOH staff physically	documented deployment script is needed to ensure the repeatability and stability of DOH's production deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when	deployment scripts for both the patch method and the full solution upgrade method. The script(s) should be in the form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel are unavailable. Standardize the content of all developer deployment task notes, with a goal of eliminating any potential ambiguity to the Deployment Team, resulting in a cleaner and more repeatable set of	the related recommendations below has been completed. A subsequent medium issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the deployment. Root causes are suspected to be a combination of insufficient testing from a business perspective coupled with deployment issues. A bulk record update task required as part of the implementation was not included in the deployment, resulting in contacts being deprecated from the Circle of Support in Inspire. It is unclear if any other deployment issues may have also contributed to the new defects. Deployment corrections were applied in a mid sprint release on 11/27/2020. Based on the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved.		2.13300			has been addressed and proposed IV&V recommend ations have been completed. A subsequent finding #19 has been created to address ongoing deployment processes and technical execution	
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5.000 1/31		BHA does not have a documented 'Definition of Done' (DOD) for the BHA Top 100 User Stories of for Phase 3. Because of this, it is unclear how proposed functionality/features are prioritized for each sprint, and throughout Phase 3.	The 'Definition of Done" document guides the Project's vision, business, and technical goals that are important inputs for stakeholders to develop a Roadmap for Phase 3. Without the 'Definition of Done' document, the project is likely to struggle to prioritize proposed functionality/features which may be equally important but are at odds with each other.	Project is currently in the process of creating the Definition of Done. IV&V recommends that the project create this document and socialize this with project team before end of Feb 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	3. Preliminary Concern	4. N/A	3. Closed	Definition of Done completed and socialized.	V Ramesh
6.000 1/31	/2020 The lack of consistent backlog grooming could result in the project backlog having obsolete, nonestimated, and poorly defined user stories.	The backlog of defects, requests, and user stories continues to grow. Currently, there are approximately 429 defects and requests, of which almost 200 have a status of 'New'. IVV notes that a large percentage of the backlogged work items do not have user story points estimated. Many of the items listed in the backlog are old, and some may have had needs or requirements change over time or may now be obsolete. IV&V notes that DDD and CAMHD have initiated this effort and agreed to prioritize grooming the backlog by the end of February.	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.	include deprecating items no longer needed, and fully defining those items	06/30/2020 - IV&V has observed for another month that the project continues to groom the backlog. As a result, we are closing this finding.05/31/2020 - The project team has determined the backlog grooming effort has caught up, as details for release 3.9 are completed and 3.10 is near completion. IV&V will keep this finding open for an additional month to validate that the backlog continues to be groomed as new stories and defects are identified. Efforts to keep the backlog groomed should take place each month so that release planning efforts are not delayed. 04/30/2020 - The project reported that 97% of the original backlog has been estimated at this time. That said, CAMHD has determined that there are several older, and possibly no longer necessary user stories in the backlog that are candidates for deletion. IV&V will keep this finding open and will re-assess it for impact during the month of May.03/31/2020 - IV&V validates that the backlog grooming effort has made great progress, however it is still in progress. The revised target date for completion was	Project Management	1. Risk	1. Low	3. Closed	The project has demonstrat ed they are consistently grooming the backlog.	D Macdonald

7.000	1/31/2020 The BHA Technical Team bandwidth	The BHA Technical Team	The BHA Technical Team leads the	BHA needs, and should pursue,	10/31/2021 - BHA interviewed multiple	Sprint Planning	2. Issue	3. High	2. Work In Pro	gress	D Macdonald
7.000	may not be adequate to meet the	plays a role that is	efforts of all technical DOH staff on	additional Knowledge Transfer sessions	candidates for the open ITS4 position in	Spe i idiiiiiig	23300			055	3000
	needs of the project, which could	critical to project	the project. As such, the Team's time	on the updated Calculator 3.0 solution	October, and selection is anticipated in						
	compromise project productivity.	success. Currently, the	is both extremely valuable and	The Project should investigate	early November. BHA has not received						
	comprehinse project productivity.	responsibilities	scarce. If the Team's expected	mechanisms of increasing the	approval to post its second (lower level)						
		associated with the BHA	workload exceeds bandwidth, the	bandwidth of the BHA Technical Team,	technical position. IV&V will continue to						
		Technical Team have	project could experience bottlenecks.	either by adding resources through new	·						
		expanded beyond their	Optimization of the BHA Technical	hires, or vendor contracts.	resolved.						
		collective available	Team's time is to the benefit of the	The Project should assess, where	09/30/2021 - BHA received multiple						
		bandwidth. IV&V notes	project and plays a critical role in the	possible, if there are responsibilities of	candidates for the open ITS4 position and						
		that BHA began	project's ability to hit performance	the BHA Technical Team that can be	is currently interviewing the most qualified						
		addressing this	targets and achieve the Phase 3	reassigned to other project staff.	candidates. A candidate selection is						
		bandwidth issue, which	definition of done.	The Project should evaluate where	anticipated in October. BHA has not						
		includes increased		process inefficiencies can be addressed	received approval to post its second (lower						
		collaboration with key		and streamlined to possibly free up the	level) technical position. RSM has provided						
		RSM resources, and are		BHA Technical Team's availability.	ongoing Calculator 3.0 knowledge transfer						
		working to potentially		The Project should consider the	sessions to BHA staff during the month of						
		change the structure of		formation of a first level resource team	September. IV&V will continue to monitor						
		the Technical Team.		to triage/address production defects in	this high priority issue until resolved.						
				a timely manner, without disrupting	08/31/2021 - BHA made progress during						
				new development work.	August towards resolving its technical						
				The Project should consider	bandwidth issues. CAMHD obtained all						
				procurement of an online training	needed approvals and has posted an						
				toolset to support OCM and technical	experienced technical position (ITS4) to						
				efforts to offset the need for in-person	add to the team. There is also an						
				training.	expectation that a second mid-level						
				L. G.I.I.I.B.	technical position will also be made						
8.000	1/31/2020 The lack of a Product Roadmap that	BHA does not have a	A Roadmap is a tool that guides an	IV&V understands that the Project is in	02/29/2020 - In February, the project	Project Management	3. Preliminary	4. N/A	3. Closed	Product	V Ramesh
	provides direction on the top product	single, definitive	agile project on what	the process of creating a Short Term;	further defined the Phase 3 Product		Concern			Roadmap	
	features to be delivered in the near	Product Roadmap for	functionalities/features are targeted	Mid Term, and Long Term Roadmap.	Roadmap and aligned it with the Phase 3					aligned with	
	term (next 3 months), midterm, and	Phase 3 that addresses	to be built and released and when	IV&V recommends the Project complete	Definition of Done. IV&V recommends the					Definition of	
	long term could have an adverse	the functionalities,	users can have access to these	this by the end of February 2020 to	project continually review and update					Done	
	impact on the Project's scope and	features, and / or	functionalities. Without a defined		both the Product Roadmap and Definition						
	schedule.	enhancements to be	Roadmap the project may not be able	1	of Done, adjusting as necessary. IV&V will						
		built in order to fully	to effectively scope the top features	project from releasing the needed	continue to monitor the project's						
		address BHA's business	to be released within Phase 3 and	functionalities/features targeted for	adherence to the Product Roadmap and						
		needs. IV&V met with	ensure the correct resources are	Phase 3 as documented in the	progress against it but is closing out this						
		RSM and BHA on this	available to accomplish the goal of	Definition of Done.	concern as of the February report.						
		topic in January, and	each sprint and the Phase.								
		notes that the project is									
		actively working to									
		address this concern.									
		222.233 4.113 60.136111.									
		•									

9.000	2/26/2005	The COMP 40 man ! !!!	0 - 2/22/2022 11	BOIL stababababaan	11/01/1	04/20/2024 The Decition is	Duration at Man	4 Dist	1 1	2 Classil	The David	D Mandani II
1.000	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	1. Risk	1. Low	3. Closed	The Project	D Macdonald
		related "stay at home" order could	Governor issued a "stay	activities could be significantly	efforts to setup, train, and assist	maintain its ability to operate with staff					continues to maintain its	
		hinder project activities and	at home, work from home order" that has	hindered, not only by required	stakeholders on remote work devices	working remotely, effectively overcoming					ability to	
		negatively impact the project		· · · · · · · · · · · · · · · · · · ·	and tools and make every effort to help	the "stay at home, work from home order"						
		schedule and budget.	reduced state	also by the flood of activities that	them to become highly functional with	that reduced BHA's ability to be fully					operate with staff	
			departments ability to	could occur as the department could	remote access technology (e.g.	functional in the office. The potential DDD					working	
				become overwhelmed processing and providing services due to the		and CAMHD budget challenges reported in					remotely,	
			large majority of state		recommends the project and DOH	March were also overcome during April,					effectively	
			to work from	resulting economic impacts to citizens. Some stakeholders may be	create a detailed, documented risk	providing fiscal relief to BHA. As such, IV&V is closing this finding.03/31/2021 -					overcoming	
			home/remotely at least	unable (due to stricter shutdown	mitigation strategy and plan that is	The Project continued to maintain its					the "stay at	
			until the end of April	policies) or unwilling to perform	reviewed regularly and revised to address the current state of the COVID-	ability to operate with staff working					home, work	
			and some offices may	these activities during this chaotic	19 threat and related impacts over the	remotely, while COVID-related					from home	
			be completely shut	time. Planned SI on-site visits will	next 6 to 12 months - In Progress - IV&V	responsibilities continue to grow for					order" that	
			' '	also likely be changed to remote	recommends updates to the OCM Plan	CAMHD Leadership. The Governor					reduced	
			well. Unclear if the	which could reduce the effectiveness	to include any new activities or updates	announced that potential furloughs and/or					BHA's ability	
			order will extend	of their project activities. Going	to planned activities to aid the	layoffs of State workers will no longer be					to be fully	
			beyond that date.	forward most if not all project	organization through this COVID-19	necessary based on the signing of the					functional in	
			beyond that date.	activities will more than likely be	situation in the short and long term -	American Rescue Plan. IV&V has reduced					the office.	
				conducted remotely until this crisis	Open	the priority of this finding from Medium to					The	
				passes.		Low and will continue to monitor moving					potential	
				passes.		forward. 02/28/2021 - As reported in					DDD and	
						January, there were no substantive					CAMHD	
						changes observed for this finding in					budget	
						February. The Project continued to					challenges	
						maintain its ability to operate with staff					reported in	
						working remotely. IV&V continues to note					March were	
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	07/31/2020 - The Project continues to to		3. Preliminary	4. N/A	3. Closed	This process	
	-,,	complex user stories has resulted in	incidents during May	· '	,			· '	′			
				idesign are not met, users could	(commenced) conducting technical	ispend additional time on the designs of		lConcern			ichange to i	
		the promotion of incomplete	- '	design are not met, users could experience the inability to complete	commenced) conducting technical design reviews for complex user stories	spend additional time on the designs of complex user stories during June to ensure		Concern			change to spend extra	
I		the promotion of incomplete solutions into production.	where the code	experience the inability to complete	design reviews for complex user stories	complex user stories during June to ensure		Concern			spend extra	
		the promotion of incomplete solutions into production.	where the code promoted to production	experience the inability to complete required processes, resulting in	design reviews for complex user stories prior to development to ensure designs	complex user stories during June to ensure requirements and user story components		Concern			spend extra time on the	
		l ' '	where the code promoted to production did not fully meet all	experience the inability to complete required processes, resulting in incomplete data collection and	design reviews for complex user stories prior to development to ensure designs are complete and all requirements	complex user stories during June to ensure requirements and user story components were fully captured in design sessions.		Concern			spend extra	
		l ' '	where the code promoted to production did not fully meet all requirements of	experience the inability to complete required processes, resulting in	design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the design are met.	complex user stories during June to ensure requirements and user story components were fully captured in design sessions. This process change has proven successful,		Concern			spend extra time on the design of	
		l ' '	where the code promoted to production did not fully meet all	experience the inability to complete required processes, resulting in incomplete data collection and	design reviews for complex user stories prior to development to ensure designs are complete and all requirements	complex user stories during June to ensure requirements and user story components were fully captured in design sessions.		Concern			spend extra time on the design of complex	
		l ' '	where the code promoted to production did not fully meet all requirements of associated user stories	experience the inability to complete required processes, resulting in incomplete data collection and	design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the design are met. IV&V observed this activity has been	complex user stories during June to ensure requirements and user story components were fully captured in design sessions. This process change has proven successful, and as such, IV&V recommends closing		Concern			spend extra time on the design of complex user stories	
		l ' '	where the code promoted to production did not fully meet all requirements of associated user stories for CAMHD Progress	experience the inability to complete required processes, resulting in incomplete data collection and	design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the design are met. IV&V observed this activity has been implemented by DOH in the month of	complex user stories during June to ensure requirements and user story components were fully captured in design sessions. This process change has proven successful, and as such, IV&V recommends closing this concern.06/30/2020 - IV&V		Concern			spend extra time on the design of complex user stories to ensure	
		l ' '	where the code promoted to production did not fully meet all requirements of associated user stories for CAMHD Progress Notes. The components	experience the inability to complete required processes, resulting in incomplete data collection and	design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the design are met. IV&V observed this activity has been implemented by DOH in the month of	complex user stories during June to ensure requirements and user story components were fully captured in design sessions. This process change has proven successful, and as such, IV&V recommends closing this concern.06/30/2020 - IV&V acknowledges the Project Team continued		Concern			spend extra time on the design of complex user stories to ensure that all	
		l ' '	where the code promoted to production did not fully meet all requirements of associated user stories for CAMHD Progress Notes. The components that were developed	experience the inability to complete required processes, resulting in incomplete data collection and	design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the design are met. IV&V observed this activity has been implemented by DOH in the month of	complex user stories during June to ensure requirements and user story components were fully captured in design sessions. This process change has proven successful, and as such, IV&V recommends closing this concern.06/30/2020 - IV&V acknowledges the Project Team continued to spend additional time on the designs of		Concern			spend extra time on the design of complex user stories to ensure that all requirement	
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		l ' '	where the code promoted to production did not fully meet all requirements of associated user stories for CAMHD Progress Notes. The components that were developed and implemented were functional, however the effort was complicated	experience the inability to complete required processes, resulting in incomplete data collection and	design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the design are met. IV&V observed this activity has been implemented by DOH in the month of	complex user stories during June to ensure requirements and user story components were fully captured in design sessions. This process change has proven successful, and as such, IV&V recommends closing this concern.06/30/2020 - IV&V acknowledges the Project Team continued to spend additional time on the designs of complex user stories during June to ensure requirements and user story components were fully captured in design sessions.		Concern			spend extra time on the design of complex user stories to ensure that all requirement s are represented has proven	
		l ' '	where the code promoted to production did not fully meet all requirements of associated user stories for CAMHD Progress Notes. The components that were developed and implemented were functional, however the effort was complicated by additional	experience the inability to complete required processes, resulting in incomplete data collection and	design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the design are met. IV&V observed this activity has been implemented by DOH in the month of	complex user stories during June to ensure requirements and user story components were fully captured in design sessions. This process change has proven successful, and as such, IV&V recommends closing this concern.06/30/2020 - IV&V acknowledges the Project Team continued to spend additional time on the designs of complex user stories during June to ensure requirements and user story components were fully captured in design sessions.		Concern			spend extra time on the design of complex user stories to ensure that all requirement s are represented has proven to be	
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		l ' '	where the code promoted to production did not fully meet all requirements of associated user stories for CAMHD Progress Notes. The components that were developed and implemented were functional, however the effort was complicated by additional requirements being added during development that necessitated additional changes to the design. IV&V will continue to monitor the design	experience the inability to complete required processes, resulting in incomplete data collection and	design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the design are met. IV&V observed this activity has been implemented by DOH in the month of	complex user stories during June to ensure requirements and user story components were fully captured in design sessions. This process change has proven successful, and as such, IV&V recommends closing this concern.06/30/2020 - IV&V acknowledges the Project Team continued to spend additional time on the designs of complex user stories during June to ensure requirements and user story components were fully captured in design sessions.		Concern			spend extra time on the design of complex user stories to ensure that all requirement s are represented has proven to be	
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11.000	7/21/2020	DDD Project resource shortages may	The user adoption and	The significance and impact of OCM	IV&V recommends that BHA does as	03/31/2021 - The DDD staff who've been	Project Management	1. Risk	4. N/A	3. Closed	The DDD	D Macdonald
11.000	7/31/2020	have a continued negative effect on	training efforts are	can never be understated. It is clearly		part of the review process are pleased	rioject ivialiagement	1. 1/15/	7.19/6		staff who've	Diviacuonalu
		user adoption, training, and overall	hampered based on	a best practice that best that all staff	influence to increase user adoption and	with the quality of the videos produced		<i>'</i>	1		been part of	
		OCM activities.	staffing shortages. DDD	· ·	training. This includes procurement of	within the toolset and have determined		1			the review	
		Octivides.	has stated that its users	manner. Variations in how the	the online training toolsets to offset the	that the toolset is a very helpful training		1			process are	
			have been found to not	system is utilized by its users is likely	need for in-person training, and adding	tool for DDD staff and providers. As such,		1			pleased	
			be utilizing the system	to cause variations in data collection	staff as needed to support OCM and	IV&V is closing this finding.02/28/2021 -		1			with the	
			to its fullest extent in	and analytical efforts using the data	technical efforts. IV&V recommends	Training videos using the new toolset were		1			quality of	
			terms of system	collected.	DOH perform a detailed investigation of	nearing completion by the end of		1			the videos	
			workflow, provide their		the specific variations as to how the	February. DOH is currently reviewing the		<i>'</i>	1		produced	
			insights and input,		system is currently being used by the	drafts of the second set of videos and		1			within the	
			follow up, etc. To assist		user community. Consequently, users	work is progressing well. IV&V will		1			toolset, and	
			in OCM activities, DDD		would be provided with constructive	continue to monitor this finding until DDD		1			have	
			has defined the need for		feedback on how the system should be	has had sufficient time to determine the		1			determined	
			an interactive training		utilized where gaps exist. This will likely	overall quality of the training work		<i>'</i>	1		that the	
			tool to support Inspire.		lead to additional refresher training to	products and whether the new toolset is		1			toolset is a	
					close identified system knowledge gaps.	addressing user adoption and staffing		<i>'</i>	1		very helpful	
						shortages for these task efforts.		1			training tool	
						01/31/2021 - Training design activities		1			for DDD	
						using the interactive training toolset		1			staff and	
						commenced in January and has attained		1			providers.	
						good progress. The use of this tool is		<i>'</i>	1			
						expected to provide some bandwidth		1				
						relief for DDD staff members responsible		1				
						for onboarding new staff members and		1				
						providers, and to provide refresher		1				
						training to existing staff members. IV&V		1				
12.000	8/31/2020	PII/PHI data in non-production	IV&V has been made	Failure to secure PII/PHI data leaves	IV&V recommends DOH consider	10/31/2021 - There was no substantive	Project Management	2. Issue	2. Medium	1. Open		D Macdonald
		environments	aware that PII/PHI data	the organization open to highly	limiting the volume of environments	change to this finding in October. This			1 1			
			currently exist in a non-	targeted social engineering attacks,	with PII/PHI data and access necessary	effort continues to remain on hold until			1 1			
			production environment	heavy regulatory fines, and loss of	to support development work, which	additional staff are available to support.			1 1			
			to meet project needs.	client trust and loyalty.	should help minimize this risk.	IV&V will continue to monitor this medium			1 1			
			Generally this is not a		IV&V recommends if production data is	priority security finding.			1 1			
			good security practice as	5	necessary in any non-production	09/30/2021 - There was no substantive			1 1			
			the presence of PII/PHI		environment that DOH establishes a	change to this finding in September. This			1 1			
			data in non-production		plan for effectively managing the	effort remains on hold until additional			1 1			
			environments increases		security of the PII/PHI data, including	staff are available to support. IV&V will			1 1			
			the potential for theft,		the potential masking of data.	continue to monitor this medium priority			1 1			
			loss or exposure thus		IV&V recommends that DOH mitigates	security finding.			1 1			
			increasing the		this finding by minimizing and/or	08/31/2021 - Due to resource constraints,			1 1			
			organization's risk.		masking PHI/PII data in designated non-	this effort has been put on hold until		'	()			
			Failure to secure PII/PHI		production environments.	additional staff are made available to		'	()			
			data leaves the			support. IV&V will continue to monitor		1	()			
			organization open to			this medium priority security		1	()			
			highly targeted social			finding.07/31/2021 - BHA met with the		1	()			
			engineering attacks,			Department of Human Services (DHS) to		1	()			
			heavy regulatory fines, and loss of client trust			discuss the use of the Delphix tool which they currently use for masking PII/PHI data		1	()			
			and loyalty.			in non-production environments. An initial		'	()			
			and loyalty.			assessment of this tool would require		'	()			
						downloads from D365, masking of data,		'	()			
						and subsequent uploads in a sequential		1	()			
		I	1	1	1	Jama sabsequent aprodus in a sequential	1	1 '				
						manner. This may not be the best		l i	!			
						manner. This may not be the best approach for masking data. Consequently,						

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	1. Risk	4. N/A	3. Closed	Finding has	D Macdonald
13.000	8/31/2020	Logs	deployed audit log	hamper the investigation of future	to collaborate with Microsoft until the	longer an issue and recommends closure.	Planning	I. Nisk	7. 14/7	J. Closed	been	Diviacaonala
		12053	functionality into	security breaches.	activity logging feature is available in all	IV&V is closing this finding.02/28/2021 -	T Idilling				resolved.	
			production whereby	security breaches.	BHA non-production environments.	BHA continued this effort in February					resolveu.	
			these logs can be		Brittion production citylioninches.	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 logging	,		be completed. IV&V will continue to						
			for users with just view			monitor this finding. (Per Kamu, this status						
			permissions will not be			information did not correctly reflect the						
			available from Microsoft			issue as the layering issue has no relation						
			in the public sector			to the activity logs.)01/31/2021 - The						
			environment until the			implementation effort for this activity						
			end of September 2020.			moved forward in January. Some of the						
			The unavailability of			entities will have activity logging						
			these specific activity			completed in the planned early February						
			logs could potentially			Release 3.12, while others will be delayed						
			hamper the			until Release 3.13. IVV will continue to						
			investigation of future			monitor. 12/31/2020 - The planning effort						
			security events until			for identifying the entities that will require						
			implemented.			activation of the new activity logs was						
						completed during December. The						
						implementation effort has been prioritized						
						for inclusion in Release 3.12. IV&V will						
						continue to monitor this finding until						
						implemented. 11/30/2020 - The DOH						
14.000	9/30/2020	Due to multiple quality concerns, the	System defects	The identified quality issues have	Evaluate existing project staff skills and	10/31/2021 - During October, the project	Project Management	2. Issue	2. Medium	2. Work In Pro	gress	D Macdonald
		project may continue to face	identified in August that	negatively affected DOH billing	experience level to ensure they meet	determined that a formal RCA was not						
		impactful system defects.	affected claims were	processes and DOH has stated these	BHA support requirements.	warranted for R3.18, which was deployed						
			due to multi-faceted	are the most impactful defects	Perform revenue neutrality fiscal	to production in late September. Four post	-					
			quality issues were	discovered to date.	balance testing on a quarterly basis to	deployment issues were identified. One						
			individually addressed		ensure revenues are as expected.	was caused by the deployment of an						
			during this reporting		Assign dedicated resources to provide	incorrect (older) version of the HSRI flow.						
			period. IV&V notes that		oversight of CAMHD Fiscal Processes.	IV&V will continue to monitor this medium						
			there is one remaining		Monitor implemented improvements	priority finding related to overall quality.						
			defect still being		for effectiveness.	09/30/2021 - The Project's focus on						
			evaluated that affects a		IV&V recommends performing an RCA	quality again resulted in positive progress						
			limited number of		in collaboration with RSM after all	in September. R3.18 was promoted to						
			claims. Overall, the		future release deployments for	production on 9/26/2021 with a few post-						
			Project Team has		continual quality improvement.	production issues identified that are						
			responded with a		BHA and RSM to collaborate on the	currently under review. IV&V will continue						
			commitment to increase	1	necessary revisions to the submitted	to monitor this medium priority finding.						
			project quality and is in		design deliverables to increase level of	08/31/2021 - The Project's focus on						
			the process of		detail and quality.	quality resulted in good progress in						
			identifying		Perform typical project testing including	August. Release 3.17 was promoted to						
			improvements to associated testing		System Integration, User Acceptance, Performance, and Regression Testing.	production on 8/15/2021 without any						
			processes. These		Dedicate sufficient time in between	major defects or deployment issues. The recent RCA efforts focused on design error						
			currently		releases for BHA and RSM to	mitigation and regression testing for high-						
			Curr Cittiy	1	Treneases for brita and halvi to	Immediation and regression testing for high-						
			include:Performing		execute/implement RCA correction	rick areas. The Project has also nursued		1				
			include:Performing		execute/implement RCA correction	risk areas. The Project has also pursued						
			Revenue Neutrality		actions to reduce the volume of	the ongoing operational monitoring of						
			_		1	1						

45.000 - 40/5/0000 - 50 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1		14.31/4	2 (11	l=ı · . l	D. Maradana I.d
	eted KT 3. Prelimina	y 4. N/A		- 13	D Macdonald
development and ongoing intent to obtain more strides addressing this concern. A	Concern			has made	
maintenance of the system requires targeted knowledge Semantics Layer KT session was conducted				good	
BHA to take a proactive approach to transfer of both the on 1/29/21 and multiple IDM and				progress	
support of these tools. Semantics Reporting Semantic Layer sessions has been				establishing	
and IDM tools. IV&V will scheduled in February. IV&V is closing this				and initial	
continue to monitor this finding as we no longer view this item as a				execution of	
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					
	ect Management 1. Risk	4. N/A	3. Closed	CAMHD	D Macdonald
is being hampered by planning tasks provided with an key activities could be significantly opportunities to augment the Leadership time dedicated to the Project	ect Management 1. Kisk	4. N/A		Leadership	Diviacuonalu
and activities for assessing project approval to commence hindered by the flood of activities management staffing for planning has returned to normal and expected				time	
				dedicated to	
				the project	
expansion of the project assesses expansion of this project to 05/31/2021 - As anticipated, CAMHD			1	1 ' ' 1	
for ADAD and AMHD & the balance of divisions. Leadership time spent on efforts outside				has	
HSH. CAMHD Leadership of the Inspire Project reduced during May.				returned to	
currently spends 25% of This level of effort decreased to			1	normal.	
their available time approximately 10% of available time in					
dedicated to this May, largely for the planning of the					
planning effort. Max/Inspire divisional expansion effort.			1		
As such, IV&V is reducing the priority of			1		
		1			
this finding from Medium to Low and will				1	
continue to monitor.04/30/2021 - CAMHD			ì		
continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside					
continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to					
continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has					
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continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The					
continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to					
continue to monitor.04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as					

17.000	11/20/2020	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	2. Issue	4. N/A	3. Closed	Thoyolumo	D Macdonald
17.000	11/30/2020	requiring escalation to Microsoft,	layer efforts have	Delauit	continue to monitor the status of	requiring assistance from Microsoft	Planning	z. issue	4. IV/A		of	Diviacuonalu
		some project efforts are being	experienced several		outstanding Microsoft tickets and to	continues to remain limited, and as such,	Fidilling				interactions	
		delayed.	delays attributable to		escalate the priority of these tickets as	IV&V is closing this finding. 07/31/2021 -					needed with	
		delayed.	issues escalated to		deemed necessary.	While the number of issues requiring					Microsoft	
			Microsoft. The issues		deemed necessary.	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 API					condition is	
			Commercial support			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.					p8	
			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						
						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						
18.000	12/31/2020	Due to on-going deployment	There have been several	Repeatable documented release and	Ensure there are adequate and qualified	10/31/2021- One post-R3.18 issue was	Release/Deployment	2. Issue	2. Medium	2. Work In Pro	gress	D Macdonald
		Language and some street account on		I								
		processes and technical execution	defects pushed to	deployment will help ensure that	resources to support the current	determined to be deployment related and	Planning					
		issues, the Project may continue to	defects pushed to production with Phase 3	deployment will help ensure that mistakes are minimized, and that	resources to support the current deployment processes. This may	determined to be deployment related and caused by the deployment of an incorrect	Planning					
		T'			1		Planning					
		issues, the Project may continue to	production with Phase 3	mistakes are minimized, and that	deployment processes. This may	caused by the deployment of an incorrect	Planning					
		issues, the Project may continue to encounter defects and challenges in	production with Phase 3 releases. Some of the	mistakes are minimized, and that functionality is not mistakenly	deployment processes. This may require the support from RSM	caused by the deployment of an incorrect (older) version of the HSRI flow.	Planning					
		issues, the Project may continue to encounter defects and challenges in meeting projected timelines for	production with Phase 3 releases. Some of the defects introduced to	mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment	caused by the deployment of an incorrect (older) version of the HSRI flow. IV&V continues to note that the next	Planning					
		issues, the Project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	production with Phase 3 releases. Some of the defects introduced to production have been	mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the	caused by the deployment of an incorrect (older) version of the HSRI flow. IV&V continues to note that the next release (R3.19) will be deployed as a full	Planning					
		issues, the Project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to	mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment	caused by the deployment of an incorrect (older) version of the HSRI flow. IV&V continues to note that the next release (R3.19) will be deployed as a full solution upgrade, which includes a	Planning					
		issues, the Project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental promotional activities. In these instances, the	mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components.	caused by the deployment of an incorrect (older) version of the HSRI flow. IV&V continues to note that the next release (R3.19) will be deployed as a full solution upgrade, which includes a compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding.	Planning					
		issues, the Project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental promotional activities.	mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components. Work in collaboration with RSM to	caused by the deployment of an incorrect (older) version of the HSRI flow. IV&V continues to note that the next release (R3.19) will be deployed as a full solution upgrade, which includes a compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue	Planning					
		issues, the Project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not	mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components. Work in collaboration with RSM to establish a transition plan for DOH to assume all deployment activities to ensure complete ownership of these	caused by the deployment of an incorrect (older) version of the HSRI flow. IV&V continues to note that the next release (R3.19) will be deployed as a full solution upgrade, which includes a compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 09/30/2021 - R3.18 was promoted to production on 9/26/2021 with a few post-	Planning					
		issues, the Project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not in sync with the	mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components. 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	caused by the deployment of an incorrect (older) version of the HSRI flow. IV&V continues to note that the next release (R3.19) will be deployed as a full solution upgrade, which includes a compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 09/30/2021 - R3.18 was promoted to production on 9/26/2021 with a few post-production issues that are currently being	Planning					
		issues, the Project may continue to encounter defects and challenges in meeting projected timelines for production and non-production	production with Phase 3 releases. Some of the defects introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment	mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take	deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components. 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	caused by the deployment of an incorrect (older) version of the HSRI flow. IV&V continues to note that the next release (R3.19) will be deployed as a full solution upgrade, which includes a compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 09/30/2021 - R3.18 was promoted to production on 9/26/2021 with a few post-production issues that are currently being reviewed. The Project Team is including	Planning					
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19.000		will require BHA to perform transition of the D365 solution to the State prior to contract end.	,	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.	contract amendments to extend the DD&I	Project Management	3. Preliminary Concern	4. N/A	3. Closed	The RSM amendment s were fully executed in May 2021.	Vic 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	all daily project interactions affecting DDD from a functional and managerial perspective. If her duties are not re-assigned to capable staff prior to her planned absence, DDD will be in a challenged position to effectively contribute to at least the	1) IV&V recommends DDD to continue to look for opportunities to augment the existing technical staff in order to fully support current DDI project work.2) IV&V recommends DDD to consider augmenting their current PM/Business staff in order to allow their technical staff to focus on technical duties.	08/31/2021 - The DDD Project Manager returned from her absence, alleviating the DDD technical staff bandwidth/workload challenges. IV&V is closing this finding.07/31/2021 - The DDD technical staff continued to face bandwidth/workload challenges during the month of July. Fortunately, the DDD Project Manager is scheduled to return to work on 8/2/2021 allowing the technical staff to return fully to their technical responsibilities.06/30/2021 - The absence of the DDD Project Manager continues to cause bandwidth/workload challenges for DDD technical staff. Time available for typical DDD CRM assignments was limited in June due to this resource constraint. IV&V has promoted this finding from a Preliminary Concern to a Medium criticality issue and will continue to monitor. 05/31/2021 - The highest priority tasks and activities typically accomplished by the DDD Project Manager have been reassigned to other DDD staff. IV&V notes that this results in some level of bandwidth/workload challenges for DDD technical staff.	Project Management	2. Issue	4. N/A	3. Closed	The DDD Project Manager has returned from her leave, fully mitigating this issue.	Vic Dudoit

22.000 7/30/2021 The project schedu	of unplanned rework may have an impact on delivering planned DDI functionality with only 4 possible DDI releases remaining for completion. The FHIR interface and CAFAS interface are	rework has been 30-40% of the total USPs for the last few releases. 4 Weekly RSM Status Report Extend tallow for boulder develop BHA to a the develop at	rework by continuing to focus on quality improvement measures. Strive for defect performance metric not to exceed 20% of all user story points in any given release. un og at du sili the ex du to mo for 08 co alr an in 38	10/31/2021 - There were no substantive changes to this finding during October an there was not a planned release in Octob 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-thar expected volume of unplanned rework due to the amount of defect fixes release to production. IV&V will continue to monitor this preliminary concern moving forward. 08/31/2021 - Unplanned rework continues. Defect remediation constitute almost 45% of all USPs delivered in June and July. August saw slight improvement in this area, as defects were reduced to 38% of the total USPs delivered.	d Total	2. Issue	1. Low	2. Work In Progress	D Macdonald
Functionality by the period. 22.000 7/30/2021 The project schedu boulder' interface f	schedules for 'big care and care slipping. The FHIR interface and CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE	Weekly RSM Status Report Weekly RSM Status Report Extend t allow for boulder develop BHA to a the deve	quality improvement measures. Strive for defect performance metric not to exceed 20% of all user story points in any given release. iss un 09 at du slip the exception of the	there was not a planned release in Octob 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-th, the Project continues to see a higher-th expected volume of unplanned rework due to the amount of defect fixes release to production. IV&V will continue to monitor this preliminary concern moving forward. 08/31/2021 - Unplanned rework continues. Defect remediation constitute almost 45% of all USPs delivered in June and July. August saw slight improvement in this area, as defects were reduced to	er n- d				
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boulder' interface f	erface functionality It are slipping. CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE	allow for boulder develop BHA to a the deve							
boulder' interface f	erface functionality It are slipping. CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE	allow for boulder develop BHA to a the deve							
boulder' interface f	erface functionality It are slipping. CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE	allow for boulder develop BHA to a the deve							
boulder' interface f	erface functionality It are slipping. CAFAS interface are currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE	allow for boulder develop BHA to a the deve							
1 1	currently at risk of not making the planned R3.17 release. The Single Sign on components of the HHIE	boulder develop BHA to a the deve	allow for the completion of 'big pri	10/31/2021 - Schedule slippage for the	Project Management	2. Issue	1. Low	2. Work In Progress	D Macdonald
development are s	making the planned R3.17 release. The Single Sign on components of the HHIE	develop BHA to a the deve		prioritized features (big boulders)					
	R3.17 release. The Single Sign on components of the HHIE	BHA to a		continued during October. The final					
	Single Sign on components of the HHIE	the deve		components of the Clinical Review Proces					
	components of the HHIE		1	are to be deployed to production in R3.19	Э.				
		IE interface		The Provider Portal, Calculator 3.0					
	interface are also	1		upgrades, and Power BI Reports are now					
1 1	1		1.	spread between R3.19 and 3.20. The					
	currently at risk of not			Hawaii Health Information Exchange					
	making the planned		l l	(HHIE) ADT (Admit, Discharge, and					
	R3.17 release, and the			Management) Interface, Provider Interface	ce				
	· ·			les toreson to se					
	· · · · · · · · · · · · · · · · · · ·		Fil-	Files, and CAFAS Interface are now all					
	Meeded intermediate		Fil. de	delayed to R3.20.					
			Fill de 09	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On					
	target dates for the		Fill de 09	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to production	n				
	target dates for the planned R3.17 release.		Fill de 09 (SS in	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to productio in R3.18, however HHIE still needs to				1	
	target dates for the planned R3.17 release. The Project will need to		Fill de 09 (SS in co	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to productio in R3.18, however HHIE still needs to complete the configuration on their side				1	1
	target dates for the planned R3.17 release. The Project will need to re-assess the planned		Fill de 09 (SS in co en	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to productio in R3.18, however HHIE still needs to complete the configuration on their side enable this functionality to work. Other					
	target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates		Fill de 09 (SS in co en 'bi	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to productio in R3.18, however HHIE still needs to complete the configuration on their side enable this functionality to work. Other 'big boulder' schedule slippages were					
	target dates for the planned R3.17 release. The Project will need to re-assess the planned implementation dates for these 'big boulder'		Fill de 09 (SS in co en l'bi ob	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to productio in R3.18, however HHIE still needs to complete the configuration on their side: enable this functionality to work. Other 'big boulder' schedule slippages were observed in September, largely due to	to				
	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		Fill de 09 (SS in co co en 'bi ob thi	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to productio in R3.18, however HHIE still needs to complete the configuration on their side: enable this functionality to work. Other 'big boulder' schedule slippages were observed in September, largely due to third party delays. While some preliminal	to				
	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		Fill de 09 (SS in co en 'bi ob thi co	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to productio in R3.18, however HHIE still needs to complete the configuration on their side enable this functionality to work. Other 'big boulder' schedule slippages were observed in September, largely due to third party delays. While some preliminar components were completed and	to				
	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		Fill de 09 (SS in co en 'bii ob thi co de de	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to productio in R3.18, however HHIE still needs to complete the configuration on their side enable this functionality to work. Other 'big boulder' schedule slippages were observed in September, largely due to third party delays. While some preliminar components were completed and deployed to production for other 'big	у				
	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		Fill de 09 (SS in co en 'bi ob thi co de bo	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to productio in R3.18, however HHIE still needs to complete the configuration on their side enable this functionality to work. Other 'big boulder' schedule slippages were observed in September, largely due to third party delays. While some preliminar components were completed and	ry ne				
	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		Fill de 09 (SS in co co en 'bi ob thi co de bo Cli	delayed to R3.20. 09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to productio in R3.18, however HHIE still needs to complete the configuration on their side enable this functionality to work. Other 'big boulder' schedule slippages were observed in September, largely due to third party delays. While some preliminal components were completed and deployed to production for other 'big boulder' items in R3.18, deployment of the	ry ne				
	ADT/Labs components have already missed needed intermediate		[IMa						

22.000	7/24/2024	T-1		le	lett table 16 eres	10/04/0004 11 11 1 10 1 1	la	la .	4 1	2. 14/	D.M d d.d
23.000	//31/2021	The current DDI period expires at the	The current Project	Existing contractual agreements.	Obtain IAPDU approval from CMS.	10/31/2021 - Near the end of October, the	Project Management	2. Issue	1. Low	2. Work In Progress	D Macdonald
		end of December 2021 which will	Staffing Model shows a			PAC approved the funding request for					
		require RSM to transition of the D365	l'			extending DD&I through October 2022,					
		solution to the State prior to contract				followed by M&O through May 2023.					
		end.	starting in September			IAPDU submittal and approval is still					
			2021 through December			needed to secure Federal funding.					
			2021. Prior to this			09/30/2021 - The Project continues					
			timeframe, BHA should			discussions for extending the DD&I effort					
			commence the			while the previously planned slowdown of					
			development of a			DD&I work continues through the					
			transition plan to ensure			remainder of the 2021 calendar year. A					
			the appropriate			new IAPDU is being developed for					
			replacement State			submittal with a goal to obtain funding for					
			resources are			technical project resources through May					
			identified/secured and			2023. IV&V will continue to monitor.					
			the necessary			08/31/2021 - The Project is in discussions					
			knowledge transfer			to potentially extend the DD&I effort,					
			sessions are planned			while the previously planned slowdown of					
			and executed with RSM.			efforts will continue through the balance					
			BHA will need to be sure			of the 2021 calendar year. IV&V will					
			they are ready to take			continue to monitor.					
			on the development of								
			user stories, testing,								
			deployment, and the								
			support and								
			maintenance of the								
			entire system by the end								
24.000	10/29/2021	The R3.19 Solution Upgrade technical	Solution upgrades are	Daily Scrum Reporting	Ensure there are adequate and qualified	10/31/2021 - Due to the current R3.19	Project Management	2. Issue	3. High	2. Work In Progress	D Macdonald
	,,	issues are delaying the	essential for keeping the		resources to support the current	Solution Upgrade technical issues, staff	,		. 0		
		implementation of the release and	system current in order		Solution Upgrade processes. This may	have been advised to stay out of the					
		the ability for staff to develop and	to gain access to new		require the support from RSM	development and test environments until					
		test code.	features that enhance		resources to provide assistance and	the issues have been resolved. As a result,					
		lest souch	productivity, eliminate		knowledge transfer.	development and testing for R3.19 and					
			bottlenecks and govern		As appropriate, consult with RSM on	forward are affected by this issue. IV&V					
			sensitive information.		best practices that BHA could employ to	will continue to monitor this high priority					
			The current R3.19		support the Solution Upgrade.	issue until resolved.					
			solution upgrade work		Support the Solution opgrade.	issue until resolveu.					
			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								
	1		hampered until these								
			mampered until these	1				I			
			l '			1					
			technical issues are								
			l '								
			technical issues are								
			technical issues are								
			technical issues are								
			technical issues are								