

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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July 19, 2023

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

Aloha Senate President Kouchi, Speaker Saiki, and Members of the Legislature:

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

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

Sincerely,

Douglas Murdock (Jul 19, 2023 13:54 HST)

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)





Hawaii BHA Integrated Case Management System Project – *Phase 3-4*

Final IV&V Report for the period of

June 1 – June 30, 2023

Final submitted: July 14th, 2023



Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





Executive Summary

There were no production deployments in June. The planned mid-sprint Golden Record components deployment continued to be delayed and is planned for mid-July. The Project performed Root Cause Analysis (RCA) for the nine R3.32 post-production defects in June as they continued to focus on the remaining 'Big Boulder' functionality. Transition to the new IV&V team also occurred in June. The Project received formal CMS approval for the SI and IV&V RFPs, and the ADAD (Inspire Plus) IAPD.

Apr	May	Jun	Category	IV&V Observations
G	G	G	Sprint Planning	There are no active findings in the Sprint Planning category which remains Green (low criticality) for the June reporting period.
G	G	G	User Story (US) Validation	There are no active findings in the User Story (US) Validation category which remains Green (low criticality) for the June reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.
Y	Y	Y	Test Practice Validation	BHA has procured the necessary licenses for continued Tricentis support. The Project is expected to continue the automation of regression test scripts in late July. This category remains Yellow (medium criticality) for the June reporting period.
Y	Y	Y	Release / Deployment Planning	There was one deployment-related issue for R3.32 per the last RCA session. Defined/documented roles and responsibilities for deployment support remain outstanding. IV&V will continue to monitor this category moving forward.



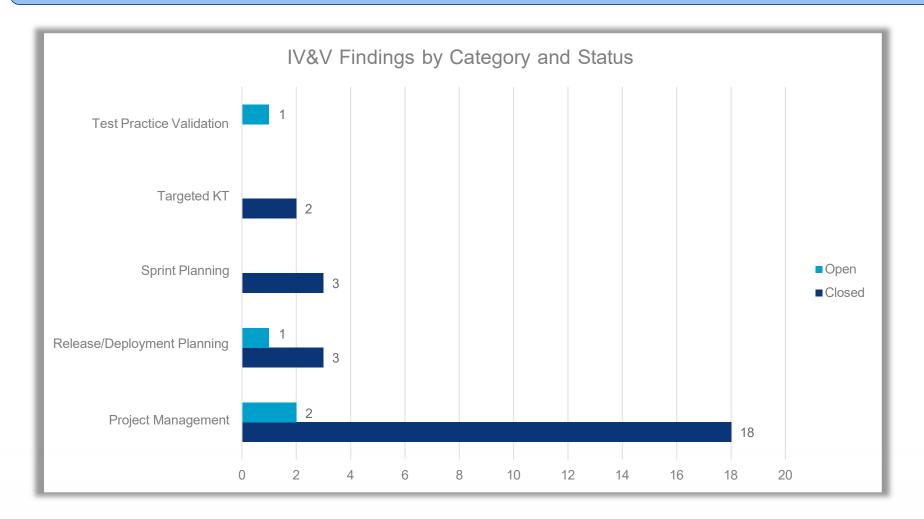
Executive Summary

Apr	May	Jun	Category	IV&V Observations
G	G	G	OJT and KT Sessions	This category remains Green (low criticality) for the June reporting period with no active findings.
G	G	G	Targeted KT	This category remains Green (low criticality) for the June reporting period. IV&V will continue to monitor.
G	G	G	Project Performance Metrics	There are no project performance metrics to report for June. IV&V will keep the criticality rating for this category a Green (low criticality) and will continue to monitor this category moving forward.
Y	Y	Y	Organizational Maturity Assessment (OMA)	This category remains Yellow (medium criticality) for the June reporting period. IV&V will continue to monitor.
R	R	Y	Project Management	Quality continues to remain a concern for IV&V as there were several high and medium criticality production defects for R3.32. IV&V closed the pending CMS Approval finding and reduced the "Big Boulder" initiatives finding criticality from a high issue to a medium issue. As a result of the positive updates made in this category, IV&V has reduced the criticality to Yellow (medium criticality) for the June reporting period.



Executive Summary

As of the June 2023 reporting period, there are a total of four (4) open findings – four Medium Issues spread across the Release / Deployment Planning, Test Practice Validation, and Project Management assessment areas.





Assessment Categories

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

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



Test Practice Validation

production regression test efforts for all release deployments.

#	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. Full use of automated regression testing capabilities continued to be delayed in June. BHA has purchased both the required licenses and the needed coaching sessions from Tricentis to help ensure success. RSM assigned a staff member in mid-June to perform research on the toolset to assimilate with the environment, and to implement this solution for DDD. The timeline for developing the DDD portion of this is expected to commence in late July and will run through October. Detailed plans are being finalized. IV&V will continue to monitor this medium criticality finding.	M
Reco	mmendations	Status
	rsue and complete additional formal training in AzureDevOps and Tricentis for test automation at the liest possible juncture and complete efforts to automate the 2 primary regression test scripts.	In progress
• De	veloping a common and consistent regression testing approach across DDD and CAMHD.	Completed



Test Practice Validation (cont'd)

Recommendations	Status
Updating the regression test scripts to ensure consistency with system configuration.	Completed
Modifying release schedules to allow for regression testing timeframes.	Completed
 Planning releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution. 	Completed
 Performing regression testing after every release, or possibly every other release, or potentially tying regression tests to FSU releases. In addition, consider alternating the DDD and CAMHD scripts every other release. 	Completed
 Modifying regression test scripts to start AFTER case creation, limiting the time it takes to execute. (This recommendation was for a point in time and is no longer valid.) 	Completed
 Implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed. 	Completed
Modifying the deployment scripts based on information gained from previous release deployments.	Completed



Test Practice Validation (cont'd)

Recommendations	Status
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
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. A deployment error was highlighted as the root cause for one of the post R3.32 production release defects. While the deployment issues have been fewer with the last few releases, this is still an area of concern for IV&V. IV&V will continue to monitor this medium exposure project issue.	M

Recommendations	Status
 Ensure there are adequate and qualified resources to support the current deployment processes. This may require support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components. 	In Progress
 Consult on a regular basis with Microsoft and 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
 Implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed. 	Completed
Ensuring 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
 Working 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. 	Completed



Release / Deployment Planning (cont'd)

Recommendations	Status
 Developing 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
 Determining an improved manner for managing DOH environments to avoid an error-prone process of 'cherry picking' what is and what is not ready for deployment. (As a result of how the current development environment is being managed, 'cherry picking' components to deploy will continue to occur. This recommendation is closed.) 	Closed



Project Management

#	Key Findings	Criticality Rating
14	Medium Issue - Due to multiple quality concerns, the Project may continue to face impactful system defects. R3.32 resulted in nine post-production defects with three critical and two high priority defects. Of the nine defects, two were caused by environmental discrepancies, two attributed to design errors, two caused by documentation issues, one related to a process issue, and one due to a deployment issue. One defect is pending a root cause. IV&V will continue to monitor this medium exposure issue.	M

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



Project Management (cont'd)

Recommendations	
 Performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement. 	Completed
Collaborating (DDD and CAMHD) on the necessary revisions to the submitted design deliverables to increase level of detail and quality.	Completed
 Performing typical project testing including System Integration, User Acceptance, Performance, and Regression Testing. 	Completed
 Dedicating sufficient time in between releases for BHA and RSM to execute/implement RCA correction actions to reduce the volume of unplanned rework. 	Completed



Project Management (cont'd)

#	Key Findings	Criticality Rating
22	Change from High Issue to Medium Issue - The project schedules for 'big boulder' functionality development are slipping. The last of the Big Boulders continued to be the primary focus for the Project during June. Both the FHIR and Provider API initiatives are now expected to be completed in R4.1. The mid-sprint deployment to promote Golden Record (GR) components that was originally scheduled for mid May has been delayed several times and is now anticipated in mid July. The delays are intended to reduce potential risks. Processes are being determined and developed across the four BHA divisions, to help ensure that the GR functionality is used in a similar fashion for all of BHA. Because there are just three big rock items left to complete, and all are currently in progress, IV&V is lowering this finding to a Medium exposure, and we will continue to monitor moving forward.	M

Recommendations	Status
Strive for ongoing velocity metric of a minimum of 120 user story points in any given release.	In Progress
• Identify the reason(s) for the lower-than-expected R3.27, R3.28, and R3.29 velocity to determine if corrective actions need to take place.	Completed
 Extend the current DDI timeframe to allow for the completion of 'big boulder' interfaces functionality development. 	Completed
Adding resources to support the development of "big boulder' interfaces functionality.	Completed



Project Management (cont'd)

#	Key Findings	Criticality Rating
29	Closed Medium Risk - RFP(s) for Project Expansion and M&O Have Not Been Approved by CMS. CMS has provided BHA a formal approval on the ADAD (Inspire Plus) IAPD and the SI and IV&V RFPs. As a result of the CMS approvals, IV&V is closing this risk.	M

Recommendations	Status
Continue to escalate RFP approvals with DHS.	Completed
Seek approval for extending the existing contract if feasible.	Completed

Project Performance Metrics

	Metric	Description	IV&V Observations	IV&V Updates
Vel	locity	 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 	June – There were no production releases in June 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 	June – There were no production releases in June 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
(1)	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be implemented as soon as feasible.
	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.





Appendix B Inputs

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

Meetings attended during the June 2023 reporting period:

- 1. Daily Scrum Meetings (selected)
- 2. Twice Weekly RSM Issues Meeting
- 3. Weekly BHA-ITS Project Status Meeting
- 4. Bi-Weekly Check-in: CAMHD
- 5. Bi-Weekly Check-in: DDD
- 6. IV&V Draft IV&V Status Review Meeting with DOH
- 7. IV&V Draft IV&V Status Review Meeting with RSM and DOH
- 8. DOH BHA IT Solution Project Steering Committee 2023

Eclipse IV&V® Base Standards and Checklists

Artifacts reviewed during the June 2023 reporting period:

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







Appendix C Project Trends

Trend: Overall Project Health											
Process Area	2022/2023										
FIUCESS AIEd	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
User Story Validation											
Test Practice Validation											
Sprint Planning											
Release / Deployment Planning											
OJT and KT Sessions											
Targeted KT											
Project Performance Metrics											
Organizational Maturity Metrics											
General Project Management											
						1	ı		ı	ı	
Total Open Findings	11	10	10	10	8	10	10	9	6	4	
Issue - high	4	5	4	3	3	2	2	1	1	0	
Issue - medium	5	4	5	4	2	3	3	4	3	4	
Issue - low	0	1	1	3	3	3	3	2	1	0	
Risk - high	1	0	0	0	0	2	1	0	0	0	
Risk - medium	0	0	0	0	0	0	0	1	1	0	
Risk - low	0	0	0	0	0	0	0	0	0	0	
Preliminary Concern	1	0	0	0	0	0	1	1	0	0	



Solutions that Matter

ID	Date Identified	Finding	Finding Statement	Supporting Analysis	PCG Recommendation	Finding Update	Process Area	Finding Type	Priority	Status	Risk Owner	Closure Reason
1.00	12/31/2019	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 information and visibility into the project's processes specific to prioritizing requests and how user stories in TFS are tagged to features, as well as the realignment of project development and	requests/enhancements and manage scope.	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.	concern, and will be tracking items related to Definition of Done, roadmap, resourcing, and backlog grooming in new, separate findings.	Sprint Planning	Preliminary Concern	N/A	Closed	Ramesh, Vijaya (PCG)	Due to multiple new items being tracked at a more granular level, this item has been closed.

2.00	12/31/2019 As a result of regression	R3.3 introduced a defect that	Thorough vetting and validation of	Pursue and complete	6/30/2023 - Full use of	Test Practice	Issue	Medium	Open	Gautam Gulvady	
	testing not being	deprecated features in	regression test cases is necessary to	additional formal	automated regression testing	Validation					
	consistently performed,	production specific to	prevent both defects and the	training in AzureDevOps	capabilities continued to be						
	production releases are	Integrated Support and Life	deprecation of production	and Tricentis for test	delayed in June. BHA has						
	breaking and/or	Trajectory functionality. DDD	functionality when a release is	automation at the	purchased both the required						
	deprecating existing	has informed IV&V that there	pushed live. When defects occur in	earliest possible juncture	licenses and the needed						
	functionality in the	are other examples of	production, the project should follow	and complete efforts to	coaching sessions from Tricentis						
	production environment.	functionality being deprecated	a defined and repeatable process for	automate the 2 primary	to help ensure success. RSM						
		after a release, some of which	determining the root cause of the	regression test scripts.	assigned a staff member in mid-						
		are still being investigated. As	problem.	IV&V recommends DDD	June to perform research on the						
		of this report, IV&V has not		and CAMHD to develop a	toolset to assimilate with the						
		evaluated the project's root		common and consistent	environment, and to implement						
		cause analysis (RCA) process		approach across	this solution for DDD. The						
		used to determine why such		divisions for performing	timeline for developing the DDD						
		functionality was deprecated		regression testing.	portion of this is expected to						
		but will discuss further with		Determine if current	commence in late July and will						
		BHA in January 2020.		regression testing	run through October. Detailed						
				timeframes are	plans are being finalized. IV&V						
				adequate and if not, add	will continue to monitor this						
				more time to the pre-	medium criticality finding.						
				production regression	05/31/2023 - Full use of						
				test efforts for all release	automated regression testing						
				deployments.	capabilities continued to be						
				Updating the regression	delayed in May. BHA has						
				test scripts to ensure	received an approval to renew						
				consistency with system	the Tricentis license renewals						
				configuration.	and coaching services. BHA will						
				Modifying release	complete this effort with a mix						

3.00	12/31/2019 Usage of open source	IV&V learned in December	Open source tools and frameworks	IV&V recommends BHA	08/31/2020 - IV&V is unaware of	Targeted KT	Risk	Low	Closed	Darren Macdonald	RSM has
		2019 that the Calculator 3.0	·		any additional KT gaps being	J. G.					successfully
	development and ongoing	functionality is built in Vue.JS,	opportunities to build and configure	reliable and repeatable	identified by DOH, and as such,						held several KT
	maintenance of Calculator	an open source JavaScript	customized solutions at lower costs	process for keeping	is closing this finding.07/31/2020						sessions for this
	3.0 requires BHA to take a	framework. As this framework	than through software purchase or	abreast of communal	- The Project resolved the						technology and
	proactive approach to	is relatively new, the open	licensing. However, open source tools	updates and support	majority of the outstanding						functionality,
	support and security.	source support community is	and frameworks often do not come	opportunities for a new	Calculator 3.0 defects during July						and DOH staff
		small. IV&V's concerns	with support models, other than	suite of tools -	which was implemented in the						have stated
		include: - The availability of	those offered through the tool's	CompletedIV&V	mid-sprint release on 7/17/2020.						that it was well
		reliable support for Vue.JS -	community. Because of this, the	recommends BHA	The final Calculator 3.0						received.
		The project's understanding of	organization bears the weight of	continue to hold	Knowledge Transfer session was						
		any known vulnerabilities with	seeking out reliable help and support,	targeted KT sessions	conducted on 7/17/2020. IV&V						
		Vue.JS, and development of a	as well as much take a proactive	with RSM on maintaining	recommends BHA to identify						
		process to remain current on	approach to security and identifying	Calculator 3.0 via a suite	and communicate any additional						
		vulnerabilities discovered by	any vulnerabilities in the tools.	of tools, and determine	KT gaps to RSM during the						
		the support community The		what additional skillsets,	month of August. If no						
		RSM lead for Calculator 3.0		training, and/or	additional needs are identified,						
		went on extended parental		resources are needed to	IV&V will close this finding.						
		leave in December 2019IV&V		support BHA's long-term	06/30/2020 - The project						
		acknowledges that BHA has		ownership of Calculator	continued to focus attention on						
		downloaded Vue.JS to start		3.0 - Completed	the Calculator 3.0 defects during						
		getting familiar with it.			the month of June. RSM						
					conducted another Calculator						
					3.0 Knowledge Transfer session						
					on 6/26/2020 and scheduled a						
					final session for 7/17/2020.						
					05/31/2020 - The project						
					continued to focus attention on						

		I	T	T	T	1	E.	I	T-, ,	I	
4.00	1/31/2020 Due to the project not	There have been several	A complete, up to date, and	IVV recommends	12/31/2020 - IV&V has closed	Release/Depl	Issue	Medium	Closed	Darren Macdonald	Key finding has
	following a detailed	defects pushed to production	documented deployment script is	documenting	this issue as the related	oyment					been addressed
	deployment script, the	with Phase 3 releases. Some of	needed to ensure the repeatability	deployment scripts for	recommendations below has	Planning	1		1		and proposed
	project may continue to	the defects introduced to	and stability of DOH's production	both the patch method	been completed. A subsequent		1		1		IV&V
	experience defects related	production have been	deployments. Since there are	and the full solution	medium issue finding (#19) has						recommendatio
	to deployment activities.	narrowed down to	currently two deployment types	upgrade method. The	been opened to address ongoing						ns have been
		environmental promotional	(patches and full solution upgrades),	script(s) should be in the	deployment processes and						completed. A
		activities. In these instances,	two scripts may be warranted. An	form of a step-by-step	technical execution issues.						subsequent
		the DEV and TEST	embedded process and documented	procedure that walks	11/30/2020 - Release 3.10 was						finding #19 has
		environments were not in sync	script will help ensure that mistakes	through from start to	promoted to production on						been created to
		with the production	are minimized, and that functionality	finish of the deployment	11/11/2020. Approximately nine						address on-
		environment (missing business	is not mistakenly deprecated when	process and involve	(9) new defects were identified						going
		rules, missing components,	deployments take place.	several technical staff to	after the deployment. Root						deployment
		missing dependencies, etc.).		ensure staff availability	causes are suspected to be a						processes and
		IVV is aware that DOH staff		to accomplish these	combination of insufficient						technical
		shadowed RSM staff for all		tasks when primary	testing from a business						execution
		deployment releases during		deployment personnel	perspective coupled with						issues.
		Phase 2 with RSM providing		are	deployment issues. A bulk						
		instruction and DOH staff		unavailable. Standardize	record update task required as						
		physically executing the tasks		the content of all	part of the implementation was						
		and activities via keyboard.		developer deployment	not included in the deployment,						
		For Phase 3, it is unclear		task notes, with a goal of	resulting in contacts being						
		whether a complete, up to		eliminating any potential							
		date, and documented		ambiguity to the	Support in Inspire. It is unclear if						
		deployment script, or		Deployment Team,	any other deployment issues						
		deployment notes, are being		resulting in a cleaner and	· · ·						
		utilized by BHA for		more repeatable set of	the new defects. Deployment						
		deployment activities.		deployment processes	corrections were applied in a						
5.00	1/21/2020 The arrait of the disc	` '	The (Definition of December 4)	· · · ·		Duningt.	Preliminary Concern	NI/A	Closed	Daniel Milana	Definition of
5.00	1/31/2020 The project lacks a	BHA does not have a	The 'Definition of Done" document	Project is currently in the		Project	Preliminary Concern	IN/A	Ciosea	Ramesh, Vijaya (PCG)	Definition of Done
	documented 'Definition of	documented 'Definition of	guides the Project's vision, business,	process of creating the	created and documented the	Managemen				(PCG)	
	Done", which could	Done' (DOD) for the BHA Top	and technical goals that are	Definition of Done. IV&V	Phase 3 Definition of Done and	τ					completed and
	challenge the project's	100 User Stories of for Phase	important inputs for stakeholders to	recommends that the	socialized it in February. IV&V						socialized.
	ability to fully achieve the	3. Because of this, it is unclear	develop a Roadmap for Phase 3.	project create this	recommends the project						
	goals of Phase 3.	how proposed	Without the 'Definition of Done'	document and socialize	continually review and update						
		functionality/features are	document, the project is likely to	this with project team	the Definition of Done, adjusting						
		prioritized for each sprint, and	struggle to prioritize proposed	before end of Feb	as/if necessary. IV&V will						
		throughout Phase 3.	functionality/features which may be	2020IV&V recommends	continue to monitor the						
			equally important but are at odds	that the project consider	project's adherence to Definition						
			with each other.	the items from the	of Done and progress against it						
				prioritized list, available	but is closing out this concern as						
				resources and define	of the February report.						
				"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.							
				during i mase s.							

6.00	1/31/2020 The lack of consistent	The backlog of defects,	A comprehensive, up-to-date backlog	IVV recommends that	06/30/2020 - IV&V has observed	Project	Risk	Low	Closed	Darren Macdonald	The project has
	backlog grooming could	requests, and user stories	is a primary tenet of agile software	CAMHD and DDD groom	for another month that the	Managemen					demonstrated
	result in the project	continues to grow. Currently,	development. If a backlog is carrying	the backlog to bring it as	project continues to groom the	t					they are
	backlog having obsolete,	there are approximately 429	work items that may not ever be	current and accurate as	backlog. As a result, we are						consistently
	non-estimated, and poorly	defects and requests, of which	completed for any reason, they	possible. This should	closing this finding.05/31/2020 -						grooming the
	defined user stories.	almost 200 have a status of	should be removed from the backlog	include deprecating	The project team has						backlog.
		'New'. IVV notes that a large	to ensure its viability.	items no longer needed,	determined the backlog						
		percentage of the backlogged		and fully defining those	grooming effort has caught up,						
		work items do not have user		items that are not yet	as details for release 3.9 are						
		story points estimated. Many		fully defined, readying	completed and 3.10 is near						
		of the items listed in the		them for configuration	completion. IV&V will keep this						
		backlog are old, and some may		or developer resources.	finding open for an additional						
		have had needs or		To the extent feasible,	month to validate that the						
		requirements change over		BHA should involve RSM	backlog continues to be						
		time or may now be obsolete.		SMEs in this process, if	groomed as new stories and						
		IV&V notes that DDD and		only for the interim to	defects are identified. Efforts to						
		CAMHD have initiated this		get "caught up" on	keep the backlog groomed						
		effort and agreed to prioritize		grooming efforts.	should take place each month so						
		grooming the backlog by the		(Closed)VV recommends	that release planning efforts are						
		end of February.		that the project consider	not delayed. 04/30/2020 - The						
				utilizing an age-based	project reported that 97% of the						
				methodology for the	original backlog has been						
				deprecation of 'older'	estimated at this time. That						
				user stories in the	said, CAMHD has determined						
				backlog that may no	that there are several older, and						
				longer be applicable or	possibly no longer necessary						
				needed by the Product	user stories in the backlog that						
				Owners and developing	are candidates for deletion.						

7.00	1/31/2020 The RHA Technical Team	The RHA Technical Team plays	The RHA Technical Team leads the	RHA needs, and should	01/31/2023 - Two more PSM	Sprint	Issue	Low	Closed	Darren Macdonald	
7.00	1/31/2020 The BHA Technical Team bandwidth may not be adequate to meet the needs of the project, which could compromise project productivity.	The BHA Technical Team plays a role that is critical to project success. Currently, the responsibilities associated with the BHA Technical Team have expanded beyond their collective available bandwidth. IV&V notes that BHA began addressing this bandwidth issue, which includes increased collaboration with key RSM resources, and are working to potentially change the structure of the Technical Team.	The BHA Technical Team leads the efforts of all technical DOH staff on the project. As such, the Team's time is both extremely valuable and scarce. If the Team's expected workload exceeds bandwidth, the project could experience bottlenecks. Optimization of the BHA Technical Team's time is to the benefit of the project and plays a critical role in the project's ability to hit performance targets and achieve the Phase 3 definition of done.	BHA needs, and should pursue, additional Knowledge Transfer sessions on the updated Calculator 3.0 solution The Project should investigate mechanisms of increasing the bandwidth of the BHA Technical Team, either by adding resources through new hires, or vendor contracts. The Project should assess, where possible, if there are responsibilities of the BHA Technical Team that can be reassigned to other project staff. The Project should evaluate where process inefficiencies can be addressed and streamlined to possibly free up the BHA Technical Team's availability.	team members joined the Project during January. IV&V has deemed the technical staff member levels to be sufficient for the project needs, and as a result, we are closing this finding. 12/31/2022 - One additional RSM team member was added in December to meet the demands of the larger-size release plans in releases R3.28 - R3.30. In addition, two more RSM team members are joining the Project in January. IV&V has deemed the staff levels to be sufficient and as a result, we are reducing the criticality rating for this finding to a "Low". IV&V will continue to monitor this finding. 11/30/2022 - Additional RSM team members joined the Project in November to meet the demands of the larger-size release plans. IV&V has reduced the criticality of this issue to a Medium priority.	Sprint Planning	Issue	Low	Closed	Darren Macdonald	
8.00	1/31/2020 The lack of a Product Roadmap that provides direction on the top product features to be delivered in the near term (next 3 months), midterm, and long term could have an adverse impact on the Project's scope and schedule.	BHA does not have a single, definitive Product Roadmap for Phase 3 that addresses the functionalities, features, and / or enhancements to be built in order to fully address BHA's business needs. IV&V met with RSM and BHA on this topic in January, and notes that the project is actively working to address this concern.	A Roadmap is a tool that guides an agile project on what functionalities/features are targeted to be built and released and when users can have access to these functionalities. Without a defined Roadmap the project may not be able to effectively scope the top features to be released within Phase 3 and ensure the correct resources are available to accomplish the goal of each sprint and the Phase.	IV&V understands that the Project is in the process of creating a Short Term; Mid Term, and Long Term Roadmap. IV&V recommends the Project complete this by the end of February 2020 to understand if there are any constraints (resources, budget) that may hinder the project from releasing the needed functionalities/features targeted for Phase 3 as documented in the Definition of Done.	02/29/2020 - In February, the project further defined the Phase 3 Product Roadmap and aligned it with the Phase 3 Definition of Done. IV&V recommends the project continually review and update both the Product Roadmap and Definition of Done, adjusting as necessary. IV&V will continue to monitor the project's adherence to the Product Roadmap and progress against it but is closing out this concern as of the February report.	Project Managemen t	Preliminary Concern	N/A	Closed	Ramesh, Vijaya (PCG)	Product Roadmap aligned with Definition of Done

0.0	2/24/2020 TI COVID 40	0. 2/22/2020 11. 0	Industrial and the second	1 200	04/20/2024 TI D : :	ls · .	n: I	I.	Cl. I	lo 14 1 11	T 5
9.00		On 3/23/2020, the Governor	DOH stakeholder participation in key	- IV&V recommends BHA	04/30/2021 - The Project	Project	Risk	Low	Closed	Darren Macdonald	The Project
	and the related "stay at	issued a "stay at home, work	activities could be significantly	to ramp up efforts to	continues to maintain its ability	Managemen					continues to
	home" order could hinder	from home order" that has	hindered, not only by required	setup, train, and assist	to operate with staff working	l					maintain its
1	project activities and	reduced state departments	remote work by DOH and SI staff, but	stakeholders on remote	remotely, effectively overcoming						ability to
į	negatively impact the	ability to be fully functional as	also by the flood of activities that	work devices and tools	the "stay at home, work from						operate with
	project schedule and	the large majority of state	could occur as the department could	and make every effort to	home order" that reduced BHA's						staff working
1	budget.	workers will be required to	become overwhelmed processing	help them to become	ability to be fully functional in						remotely,
1		work from home/remotely at	and providing services due to the	highly functional with	the office. The potential DDD						effectively
1		least until the end of April and	resulting economic impacts to	remote access	and CAMHD budget challenges						overcoming the
1		some offices may be	citizens. Some stakeholders may be	technology (e.g.	reported in March were also						"stay at home,
1		completely shut down until	unable (due to stricter shutdown	MSTeams/Skype) -	overcome during April, providing						work from
į		that time as well. Unclear if	policies) or unwilling to perform	Completed- IV&V	fiscal relief to BHA. As such,						home order"
į		the order will extend beyond	these activities during this chaotic	recommends the project	IV&V is closing this						that reduced
		that date.	time. Planned SI on-site visits will	and DOH create a	finding.03/31/2021 - The Project						BHA's ability to
			also likely be changed to remote	detailed, documented	continued to maintain its ability						be fully
			which could reduce the effectiveness	risk mitigation strategy	to operate with staff working						functional in
			of their project activities. Going	and plan that is	remotely, while COVID-related						the office. The
į			forward most if not all project	reviewed regularly and	responsibilities continue to grow						potential DDD
1			activities will more than likely be	revised to address the	for CAMHD Leadership. The						and CAMHD
1			conducted remotely until this crisis	current state of the	Governor announced that						budget
i i			passes.	COVID-19 threat and	potential furloughs and/or						challenges
i i				related impacts over the	layoffs of State workers will no						reported in
i i				next 6 to 12 months - In	longer be necessary based on						March were
i i				Progress - IV&V	the signing of the American						also overcome
i				recommends updates to	Rescue Plan. IV&V has reduced						during April,
i				the OCM Plan to include	the priority of this finding from						providing fiscal
i				any new activities or	Medium to Low and will						relief to BHA.
				updates to planned	continue to monitor moving						
10.00	5/31/2020 The lack of design reviews	There were a couple incidents	If all requirements within a functional	IV&V recommends (and	07/31/2020 - The Project	Sprint	Preliminary Concern	N/A	Closed	Darren Macdonald	This process
	for complex user stories	during May where the code	design are not met, users could	DOH has commenced)	continues to to spend additional	Planning					change to
	has resulted in the	promoted to production did	experience the inability to complete	conducting technical	time on the designs of complex						spend extra
	promotion of incomplete	not fully meet all	required processes, resulting in	design reviews for	user stories during June to						time on the
	solutions into production.	requirements of associated	incomplete data collection and	complex user stories	ensure requirements and user						design of
		user stories for CAMHD	potential issues in service delivery.	prior to development to	story components were fully						complex user
		Progress Notes. The		ensure designs are	captured in design sessions. This						stories to
		components that were		complete and all	process change has proven						ensure that all
		developed and implemented		requirements associated	successful, and as such, IV&V						requirements
		were functional, however the		with the design are met.	recommends closing this						are
		effort was complicated by		IV&V observed this	concern.06/30/2020 - IV&V						represented
		additional requirements being		activity has been	acknowledges the Project Team						has proven to
		added during development		implemented by DOH in	continued to spend additional						be successful.
		that necessitated additional		the month of May.	time on the designs of complex						
		changes to the design. IV&V		,	user stories during June to						
		will continue to monitor the			ensure requirements and user						
		design review activity for large			story components were fully						
		user stories moving forward			captured in design sessions.						
					IV&V will continue to monitor in						
	1	I		1			I	1	I	I	1
					July.						

11.00	7/31/2020 DDD P	Project resource	The user adoption and training	The significance and impact of OCM	IV&V recommends that	03/31/2021 - The DDD staff	Project	Risk	N/A	Closed	Darren Macdonald	The DDD staff
	shorta	ages may have a	efforts are hampered based	can never be understated. It is	BHA does as much as	who've been part of the review	Managemen					who've been
	continu	nued negative effect	on staffing shortages. DDD	clearly a best practice that best that	possible within its	process are pleased with the	t					part of the
	on use	er adoption, training,	has stated that its users have	all staff utilize the solution in the	sphere of influence to	quality of the videos produced						review process
	and ov	verall OCM activities.	been found to not be utilizing	same manner. Variations in how the	increase user adoption	within the toolset and have						are pleased
			the system to its fullest extent	system is utilized by its users is likely	and training. This	determined that the toolset is a						with the quality
			in terms of system workflow,	to cause variations in data collection	includes procurement of	very helpful training tool for						of the videos
			provide their insights and	and analytical efforts using the data	the online training	DDD staff and providers. As						produced
			input, follow up, etc. To assist	collected.	toolsets to offset the	such, IV&V is closing this						within the
			in OCM activities, DDD has		need for in-person	finding.02/28/2021 - Training						toolset, and
			defined the need for an		training, and adding staff	videos using the new toolset						have
			interactive training tool to		as needed to support	were nearing completion by the						determined
			support Inspire.		OCM and technical	end of February. DOH is						that the toolset
					efforts. IV&V	currently reviewing the drafts of						is a very helpful
					recommends DOH	the second set of videos and						training tool for
					perform a detailed	work is progressing well. IV&V						DDD staff and
					investigation of the	will continue to monitor this						providers.
					specific variations as to	finding until DDD has had						
					how the system is	sufficient time to determine the						
					currently being used by	overall quality of the training						
					the user community.	work products and whether the						
					Consequently, users	new toolset is addressing user						
					would be provided with	adoption and staffing shortages						
					constructive feedback on	for these task efforts.						
					how the system should	01/31/2021 - Training design						
					be utilized where gaps	activities using the interactive						
					exist. This will likely lead	training toolset commenced in						
					to additional refresher	January and has attained good						

12.00	8/31/2020	PII/PHI data in non-	IV&V has been made aware	Failure to secure PII/PHI data leaves	IV&V recommends BHA	05/31/2023 - As part of R3.22,	Project	Issue	Medium	Closed	Darren Macdonald	
		production environments	that PII/PHI data currently	the organization open to highly	escalate the pending	RSM utilized an updated design	Managemen					
			exist in a non-production	targeted social engineering attacks,	Security Assessment	for the scrambling of PII and PHI	t					
			environment to meet project	heavy regulatory fines, and loss of	approval if possible.	data in non-production						
			needs. Generally this is not a	client trust and loyalty.	IV&V recommends DOH	environments. The solution is						
			good security practice as the		consider limiting the	working as designed and						
			presence of PII/PHI data in		volume of environments	expected. As such, IV&V is						
			non-production environments		with PII/PHI data and	closing this finding.						
			increases the potential for		access necessary to	04/30/2023 - The Project						
			theft, loss or exposure thus		support development	continues to research the best						
			increasing the organization's		work, which should help	options for protecting PII/PHI						
			risk. Failure to secure PII/PHI		minimize this risk.	data in non-production						
			data leaves the organization		IV&V recommends if	environments as the previous						
			open to highly targeted social		production data is	approach did not yield the						
			engineering attacks, heavy		necessary in any non-	results expected. The issues						
			regulatory fines, and loss of		l'	identified in March continue to						
			client trust and loyalty.		that DOH establishes a	be investigated as time permits.						
					plan for effectively	IV&V will continue to monitor						
					managing the security of	the results of this effort in May						
					the PII/PHI data,	for any positive updates or						
					including the potential	unplanned concerns.						
					masking of data.	03/31/2023 - Validation of work						
					IV&V recommends that	items needed for PII/PHI						
					DOH mitigates this	remediation in the non-						
					finding by minimizing	production environment(s)						
					and/or masking PHI/PII	continued during March. The						
					data in designated non-	Project Team encountered						
					production	unexpected data formatting						

13.00	8/31/2020 Project not able to access	The Project recently deployed	The unavailability of activity logs may	IV&V recommends that	03/31/2021 - Per BHA, this	Release/Depl	Risk	N/A	Closed	Darren Macdonald	Finding has
	Activity Logs	audit log functionality into	hamper the investigation of future	DHS continues to	finding is no longer an issue and	oyment					been resolved.
		production whereby these logs	security breaches.	collaborate with	recommends closure. IV&V is	Planning					
		can be accessed and exported		Microsoft until the	closing this finding.02/28/2021 -						
		as needed. However, IV&V		activity logging feature is	BHA continued this effort in						
		was made aware access to		available in all BHA non-	February despite a workaround						
		activity logging for users with		production	being necessary from Microsoft						
		just view permissions will not		environments.	due to a layering issue. Based on						
		be available from Microsoft in			continued delays, it is unclear						
		the public sector environment			when this important security						
		until the end of September			activity will be completed. IV&V						
		2020. The unavailability of			will continue to monitor this						
		these specific activity logs			finding. (Per Kamu, this status						
		could potentially hamper the			information did not correctly						
		investigation of future security			reflect the issue as the layering						
		events until implemented.			issue has no relation to the						
					activity logs.)01/31/2021 - The						
					implementation effort for this						
					activity moved forward in						
					January. Some of the entities						
					will have activity logging						
					completed in the planned early						
					February Release 3.12, while						
					others will be delayed until						
					Release 3.13. IVV will continue						
					to monitor. 12/31/2020 - The						
					planning effort for identifying						
					the entities that will require						

14.00	9/30/2020 Due to multiple quality	System defects identified in	The identified quality issues have	Evaluate existing project	06/30/2023 - R3.32 resulted in	Project	Issue	Medium	Open	Gautam Gulvady	
	concerns, the project may	August that affected claims	negatively affected DOH billing	staff skills and	nine post-production defects	Managemen					
	continue to face impactful	were due to multi-faceted	processes and DOH has stated these	experience level to	with three critical and two high	t					
	system defects.	quality issues were individually	are the most impactful defects	ensure they meet BHA	priority defects. Of the nine						
		addressed during this	discovered to date.	support requirements.	defects, two were caused by						
		reporting period. IV&V notes		Perform revenue	environmental discrepancies,						
		that there is one remaining		neutrality fiscal balance	two attributed to design errors,						
		defect still being evaluated		testing on a quarterly	two caused by documentation						
		that affects a limited number		basis to ensure revenues	issues, one related to a process						
		of claims. Overall, the Project		are as expected.	issue, and one due to a						
		Team has responded with a		Assign dedicated	deployment issue. One defect is						
		commitment to increase		resources to provide	pending a root cause. IV&V will						
		project quality and is in the		oversight of CAMHD	continue to monitor this						
		process of identifying		Fiscal Processes.	medium exposure issue.						
		improvements to associated		Monitor implemented	05/31/2023 - R3.32 was						
		testing processes. These		improvements for	deployed to production on						
		currently include:Performing		effectiveness.	05/25/2023 with eight (8) new						
		Revenue Neutrality Testing to		IV&V recommends	medium and high priority						
		ensure expected revenue		performing an RCA in	defects identified after the						
		streams are largely unchanged		collaboration with RSM	production release. An RCA is						
		from one period to the next.		after all future release	planned to determine the cause						
		Conducting System Integration		deployments for	of these defects in early June.						
		Testing, User Acceptance		continual quality	The Project decided to push out						
		Testing, Performance Testing,		improvement.	the mid-sprint deployment for						
		and Regression Testing for		BHA and RSM to	Golden Record functionality to						
		Release 3.10. IV&V will		collaborate on the	the second week in June to						
		continue to monitor the		necessary revisions to	allow for sufficient testing of the						
		testing efforts throughout the		the submitted design	final solution. IV&V will continue						

15.00	10/5/2020 L	Jsage of Semantics and	The project noted its intent to	Default	Default	01/31/2021 - The project has	Targeted KT	Preliminary Concern	N/A	Closed	Darren Macdonald	The project has
		•	obtain more targeted			made great strides addressing	Ü	,				made good
		ongoing maintenance of	knowledge transfer of both			this concern. A Semantics Layer						progress
	t	he system requires BHA	the Semantics Reporting and			KT session was conducted on						establishing
	te	o take a proactive	IDM tools. IV&V will continue			1/29/21 and multiple IDM and						and initial
	a	pproach to support of	to monitor this concern.			Semantic Layer sessions has						execution of
	tl	hese tools.				been scheduled in February.						the IDM and
						IV&V is closing this finding as we						Semantics
						no longer view this item as a						Layer KT plan.
						concern.12/31/2020 - IV&V is						
						aware that an overview of the						
						Semantics Layer KT session was						
						held on 12/16/20. The planning						
						effort will result in additional						
						Semantic Layer and IDM KT						
						sessions in the coming months.						
						IV&V will continue to monitor						
						this finding.11/30/2020 - The						
						project conducted two high-level						
						overview sessions of the						
						Semantic Layer Reporting tools						
						during November. One session						
						was focused on the overall						
						Semantic Layer, and the second						
						session was focused on Semantic						
						Layer Security. Additional						
						targeted Knowledge Transfer						
						sessions on the Semantic Layer						

16.00	10/27/2020	The bandwidth of CAMHD	CAMHD has been provided	CAMDH Leadership participation in	IV&V recommends	06/30/2021 - As anticipated, the	Project	Risk	N/A	Closed	Darren Macdonald	CAMHD
		Leadership is being	with an approval to	key activities could be significantly	CAMHD look for	CAMHD Leadership time	Managemen					Leadership time
		hampered by planning	commence planning efforts for	hindered by the flood of activities	opportunities to	dedicated to the Project has	t					dedicated to
		tasks and activities for	expansion of the project for	that could occur as the department	augment the	returned to normal and						the project has
		assessing project	ADAD and AMHD & HSH.	assesses expansion of this project to	management staffing for	expected levels. As such, IV&V is						returned to
		expansion to other	CAMHD Leadership currently	the balance of divisions.	planning Phase 4 and	closing this finding. 05/31/2021 -						normal.
		divisions.	spends 25% of their available		M&O work.	As anticipated, CAMHD						
			time dedicated to this			Leadership time spent on efforts						
			planning effort.			outside of the Inspire Project						
						reduced during May. This level						
						of effort decreased to						
						approximately 10% of available						
						time in May, largely for the						
						planning of the Max/Inspire						
						divisional expansion effort. As						
						such, IV&V is reducing the						
						priority of this finding from						
						Medium to Low and will						
						continue to monitor.04/30/2021						
						CAMHD Leadership time spent						
						on efforts outside of the INSPIRE						
						Project continued to increase						
						during early April but has						
						decreased at the end of the						
						month. Approximately 60-70%						
						of Leadership time was spent on						
						Phase 4 Planning, COVID						
						Remediation, and the new						

17.00	11/30/2020 Due to consistent technical	The IDM and Semantic layer	Default	IV&V recommends the	08/31/2021 -The number of	Release/Depl	Issue	N/A	Closed	Darren Macdonald	The volume of
		efforts have experienced		project to continue to	issues requiring assistance from	oyment					interactions
	to Microsoft, some project	several delays attributable to		monitor the status of	Microsoft continues to remain	Planning					needed with
	efforts are being delayed.	issues escalated to Microsoft.		outstanding Microsoft	limited, and as such, IV&V is						Microsoft
		The issues have ranged from		tickets and to escalate	closing this finding. 07/31/2021 -						remains low
		administrative /		the priority of these	While the number of issues						and
		communication (entering		tickets as deemed	requiring assistance from						manageable.
		issues into the Commercial		necessary.	Microsoft remains limited,						This condition
		support instance vs the			interactions with Microsoft are						is no longer
		Government Cloud support			increasing again due to the						impeding
		instance), to several key			interface functionality planned						project
		technical issues requiring			for implementation in the						progress.
		assistance to resolve. To date,			current and remaining DD&I						
		these support needs have			releases. The FHIR API interface						
		added over a month to the			has required multiple						
		IDM and Semantic Layer			interactions with Microsoft that						
		project schedules.			have resulted in unplanned						
					schedule slippages for the FHIR						
					API implementation. IV&V will						
					continue to monitor this finding.						
					06/30/2021 - The number of						
					issues requiring assistance from						
					Microsoft continues to be low						
					with only two known items						
					open. As such, IV&V is reducing						
					the priority of this finding to low						
					and will continue to						
					monitor.05/31/2021 - There is						

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18.00	12/31/2020 Due to on-going	There have been several	Repeatable documented release and	Ensure there are	06/30/2023 - A deployment		Issue	Medium	Open	Gautam Gulavady	
	deployment processes and	defects pushed to production	deployment will help ensure that	adequate and qualified	error was highlighted as the root	oyment					
	technical execution issues,	with Phase 3 releases. Some of	mistakes are minimized, and that	resources to support the	cause for one of the post R3.32	Planning					
	the Project may continue	the defects introduced to	functionality is not mistakenly	current deployment	production release defects.						
	to encounter defects and	production have been	deprecated when deployments take	processes. This may	While the deployment issues]					
	challenges in meeting	narrowed down to	place.	require the support from	have been fewer with the last						
	projected timelines for	environmental promotional		RSM resources to	few releases, this is still an area						
	production and non-	activities. In these instances,		provide assistance and	of concern for IV&V. IV&V will						
	production deployments.	the DEV and TEST		knowledge transfer for	continue to monitor this						
		environments were not in sync		some of the more	medium exposure project issue.						
		with the production		complex deployment	05/31/2023 - A total of 420						
		environment (missing business		components.	USP's were deployed to						
		rules, missing components,		Work in collaboration	production for R3.32 on						
		missing dependencies, etc.).		with RSM to establish a	05/25/2023. There were eight						
		IVV is aware that DOH staff		transition plan for DOH	(8) new medium and high						
		shadowed RSM staff for all		to assume all	priority defects identified after]					
		deployment releases during		deployment activities to	the production release. It is						
		Phase 2 with RSM providing		ensure complete	unclear if any of these defects						
		instruction and DOH staff		ownership of these	were deployment related. A root						
		physically executing the tasks		processes. This should	cause analysis (RCA) is planned						
		and activities via keyboard.		assist with consistency in	for R3.32 in early June. IV&V will						
		For Phase 3, it is unclear		approach and execution	continue to monitor this						
		whether a complete, up to		going forward.	medium criticality finding.						
		date, and documented		As appropriate, consult	04/30/2023 - There were eleven						
		deployment script, or		with RSM on best	(11) defects identified post-						
		deployment notes, are being		practices that BHA could	deployment of R3.31. The root						
		utilized by BHA for		employ to support	cause analysis of these issues						
		deployment activities.		deployment.	identified three related to						
19.00	3/28/2021 The pending RSM contract	The RSM contract for Phase 3	DOH needs to be in a position to	Work hand in hand with	05/31/2021 - Per CAMHD, the	Project	Preliminary Concern	N/A	Closed	Vic Dudoit	The RSM
	expiration will require BHA	is currently planned to	completely stand on its own without	RSM to ensure that DOH	RSM contract amendments to	Managemen					amendments
	to perform transition of	complete in September 2021.	the assistance of vendor support by	has the knowledge,	extend the DD&I effort (Mod 5)	t					were fully
	the D365 solution to the	BHA will need a transition plan	fall of 2021. If DOH is not in a	skills, and capabilities to	to the end of December 2021						executed in
	State prior to contract	to ensure that it has all	position to solely take on the	perform all aspects of	and also provide M&O services						May 2021.
	end.	knowledge transfer and is fully	development of user stories, testing,	the project prior to	(Mod 6) through May 2022 were						
		capable of managing all	regression testing, deployment, and	September 2021. If the	fully executed in May. IV&V is						
		aspects of supporting and	the support and maintenance of the	knowledge transfer takes	closing this preliminary concern.						
		maintaining the D365 solution	entire system, there is a risk that	more time than planned,	04/30/2021 - The RSM contract						
		without vendor support until	environment stability may be	consider developing,	amendment is still pending						
		at least the Phase 4 expansion	challenged.	testing, and promoting	approval. This amendment will						
		effort is procured and	chancingea.	less releases in the	extend the DD&I effort (Mod 5)						
		initiated. The Phase 4 effort is		summer months as the	to the end of December 2021						
		currently expected to		transition off of vendor	and will also provide M&O						
		commence late in the 4th		support approaches.	services (Mod 6) through May						
				support approacties.							
		quarter of 2021, or early in the			2022. Mod 5 is expected to be						
		first quarter of 2022. The			approved in May 2021. This will						
		Phase 4 procurement scope is			delay the near-term need for a						
		planned to include additional			Transition Plan until first quarter						
		DD&I activities, as well as			2022. IV&V will continue to						
		M&O support activities.			monitor this finding.						

20.00	4/30/2021 The DDD Project Manager	The DDD Project Manager	The DDD Project Manager is critical to	1) IV&V recommends	08/31/2021 - The DDD Project	Project	Issue	N/A	Closed	Darren Macdonald	The DDD
	will be on leave and	performs most of the project	all daily project interactions affecting	DDD to continue to look	Manager returned from her	Managemen					Project
	unavailable to the project	duties on behalf of DDD and	DDD from a functional and	for opportunities to	absence, alleviating the DDD	t					Manager has
	starting in May.	her absence may cause an	managerial perspective. If her duties	augment the existing	technical staff						returned from
		increased level of risk to the	are not re-assigned to capable staff	technical staff in order to	bandwidth/workload challenges.						her leave, fully
		project. DDD has commenced	prior to her planned absence, DDD	fully support current DDI	IV&V is closing this						mitigating this
		planning efforts and has	will be in a challenged position to	project work.2) IV&V	finding.07/31/2021 - The DDD						issue.
		assigned staff to backfill her,	effectively contribute to at least the	recommends DDD to	technical staff continued to face						
		although they are currently	next several releases.	consider augmenting	bandwidth/workload challenges						
		assigned to other project tasks		their current	during the month of July.						
		and activities. IV&V will		PM/Business staff in	Fortunately, the DDD Project						
		continue to monitor this		order to allow their	Manager is scheduled to return						
		preliminary concern.		technical staff to focus	to work on 8/2/2021 allowing						
				on technical duties.	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						

21.00	6/30/2021	Unplanned rework may	The continued volume of	Release defect metrics for unplanned	Reduce the amount of	05/31/2023 - The final defect	Project	Issue	Low	Closed	Darren Macdonald	
		have an impact on	unplanned rework may have	rework has been 30-40% of the total	unplanned rework by	percentage for R3.32 was	Managemen					
		delivering DDI	an impact on delivering	USPs for the last few releases.	continuing to focus on	determined to be 15% of the	t					
		Functionality by the end of	planned DDI functionality with		quality improvement	total USPs delivered, meeting						
		the DDI period.	only 4 possible DDI releases		measures.	the target of 20% or less. Based						
			remaining for completion.		Strive for defect	on the defect percentage						
					performance metric not	meeting targets from previous						
					to exceed 20% of all user	releases, IV&V is closing this						
					story points in any given	finding.						
					release.	04/30/2023 - The final defect						
						percentage for R3.31 was						
						determined in April to be 16% of						
						the total USPs delivered,						
						meeting the target of 20% or						
						less. IV&V will continue to						
						monitor this low criticality						
						finding.						
						03/31/2023 - The final defect						
						percentage for R3.30 in March						
						was determined to be 41% of						
						the total USPs delivered as						
						planned to reduce the number						
						of defects in the backlog. IV&V						
						will continue to monitor this low						
						criticality finding.						
						02/28/2023 - The final defect						
						percentage for R3.29 was						
						determined in early February to						

22.00	7/30/2021	The project schedules for	The FHIR interface and CAFAS	Weekly RSM Status Report	Strive for ongoing	06/30/2023 - The last of the Big	Project	Issue	Medium	Open	Gautam Gulvady	
		'big boulder' interface	interface are currently at risk		velocity metric of a	Boulders continued to be the	Managemen					
		functionality development	of not making the planned		minimum of 120 user	primary focus for the Project	t					
		are slipping.	R3.17 release. The Single Sign		story points in any given	during June. Both the FHIR and						
			on components of the HHIE		release.	Provider API initiatives are now						
			interface are also currently at		Identify the reason(s) for	expected to be completed in						
			risk of not making the planned		the lower-than-expected	R4.1. The mid-sprint deployment						
			R3.17 release, and the		R3.27, R3.28, and R3.29	to promote Golden Record (GR)						
			ADT/Labs components have		velocity to determine if	components that was originally						
			already missed needed		corrective actions need	scheduled for mid May has been						
			intermediate target dates for		to take place.	delayed several times and is now						
			the planned R3.17 release. The		Extend the current DDI	anticipated in mid July. The						
			Project will need to re-assess		timeframe to allow for	delays are intended to reduce						
			the planned implementation		the completion of 'big	potential risks. Processes are						
			dates for these 'big boulder'		boulder' interfaces	being determined and						
			interfaces, including		functionality	developed across the four BHA						
			identification of the timing		development.	divisions, to help ensure that the						
			needs by the business teams.		BHA to add more	GR functionality is used in a						
			At a minimum, the CAFAS and		resources to support the	similar fashion for all of BHA.						
			HHIE interfaces are needed by		development of "big	Because there are just three big						
			the program. IV&V also notes		boulder' interfaces	rock items left to complete, and						
			that there are several new		functionality.	all are currently in progress,						
			high priority requests related			IV&V is lowering this finding to a						
			to the DDD Provider Portal			Medium exposure, and we will						
			and 27 production flow jobs			continue to monitor moving						
			that need to be reviewed for			forward.						
			replacement of older			05/31/2023 - The Project						
			dataverse connectors that are			continued to re-align release						

23.00	7/31/2021 The current DDI period	The current Project Staffing	Existing contractual agreements.	Obtain IAPDU approval	02/28/2022 - The IAPDU was	Project	Issue	Low	Closed	Darren Macdonald	
	expires at the end of	Model shows a planned		from CMS.	approved by Federal partners in	Managemen					
	December 2021 which will	reduction in RSM resources			early February, which extended	t					
	require RSM to transition	support starting in September			the DD&I effort through October						
	of the D365 solution to the	2021 through December 2021.			2022. Transition from RSM will						
	State prior to contract	Prior to this timeframe, BHA			not be required until						
	end.	should commence the			approximately August 2022.						
		development of a transition			Based on the extended time						
		plan to ensure the appropriate			being available for transition						
		replacement State resources			efforts, IV&V is closing this						
		are identified/secured and the			finding.						
		necessary knowledge transfer			01/31/2022 - There were no						
		sessions are planned and			substantive changes to this						
		executed with RSM. BHA will			finding observed during January						
		need to be sure they are ready			as BHA continues to pursue CMS						
		to take on the development of			Federal funding approval for						
		user stories, testing,			extending DD&I through						
		deployment, and the support			October 2022 followed by M&O						
		and maintenance of the entire			through September 2024. IV&V						
		system by the end of the DDI			will continue to monitor this						
		period (December 2021).			finding until Federal funding						
					approved.						
					12/31/2021 - There were no						
					substantive changes to this						
					finding observed during						
					December as BHA continues to						
					pursue CMS Federal funding						
					approval for extending DD&I						

24.00	10/29/2021	The R3.19 Solution	Solution upgrades are	Daily Scrum Reporting	Ensure there are	11/30/2021 - R3.19 was	Project	Issue	High	Closed	Darren Macdonald	Technical issue
		Upgrade technical issues	essential for keeping the		adequate and qualified	promoted to production as an	Managemen					resolved and
		are delaying the	system current in order to gain		resources to support the	FSU on 11/14/2021 and access	t					were attributed
		implementation of the	access to new features that		current Solution	to the development and test						to the
		release and the ability for	enhance productivity,		Upgrade processes. This	environments was again						following:
		staff to develop and test	eliminate bottlenecks and		may require the support	restored. Because the solution						 Import of
		code.	govern sensitive information.		from RSM resources to	upgrade was the first in five (5)						solution taking
			The current R3.19 solution		provide assistance and	releases, the deployment						1-2 hours,
			upgrade work efforts that		knowledge transfer.	process took approximately 12						timed out in
			includes patches for 5 releases		As appropriate, consult	hours. This issue did have an						PROD, so had
			(R3.15-R3.19) is causing		with RSM on best	impact both on the amount of						to restore and
			technical issues. As a result,		practices that BHA could	DDI functionality (reduced)						then restart
			R3.19+ development and		employ to support the	included in downstream releases						from a previous
			testing work is hampered until		Solution Upgrade.	and cost implications. IV&V has						point in time
			these technical issues are			closed this finding, as it was						backup
			resolved.			alleviated by the R3.19 release						 Errors are
						on 11/14/2021.						vague –
						10/31/2021 - Due to the current						sometimes
						R3.19 Solution Upgrade						indicating
						technical issues, staff have been						"failure" but
						advised to stay out of the						actually
						development and test						successful
						environments until the issues						 MS moving
						have been resolved. As a result,						away from
						development and testing for						Classic UI which
						R3.19 and forward are affected						is changing the
						by this issue. IV&V will continue						availability of
						to monitor this high priority						some

25.00	6/30/2022	The lack of a formal	The impact of poor project	The strategic goals and objectives of	Establish a formal	10/31/2022 - IV&V reviewed the	Project	Issue	Medium	Closed	Vic Dudoit	
25.00			governance can lead to:	CAMHD and DDD differ but both		· · ·	Managemen	13300	Wicalam	Closed	VIC Dudoit	
		, , ,	Untimely and/or uninformed	divisions need equal and fair	' '	Solution Program Charter sent	+					
		. 0	decision-making	representation of how work is being		by BHA in October and has						
		o o	Project delays and overruns	'	· · · ·	determined this finding can be						
		•	Breakdown in	prioritized and performed.	· ·	closed.						
		leadership cohesiveness.			single point of							
			communications and			09/30/2022 - The Project Charter						
			collaboration			was signed and approved during						
			An erosion of project team		approved, 3) outline	September, which is the first						
			trust			step in enacting a formal						
					relationships among	governance process for the						
						project. IV&V will continue to						
					provide issue	monitor the governance						
					management and	activities.						
						08/31/2022 - A Project Charter						
					with information	has been developed but it is						
					dissemination and	unclear to IV&V when it will be						
					transparent	approved by the Executive						
					communication.	Steering Committee to						
						commence activities related to						
						formal Project Governance.						
						07/31/2022 - A Project Charter						
						has been developed and is in						
						process of review and approval						
						by the Executive Steering						
						Committee to commence						
						activities related to formal						
						Project Governance.						

26.00	7/31/2022 The inability for BHA staff	Project team members have	Project team members have reported	IV&V recommends that	05/31/2023 - The Departmental	Project	Issue	Low	Closed	Vic Dudoit	
	to work remotely is	reported decreased	decreased productivity and there is a	DOH consider granting	Executive Committee announced	Managemen					
	decreasing productivity	productivity and there is a	strong likelihood of the Project losing	remote work to help	a work from home policy, where	t					
	and causing morale issues	strong likelihood of the Project	team members due to their inability	retain existing staff and	staff may request to work from						
	amongst team members.	losing team members due to	to work remotely. This is evidenced	to attract new	home up to 3 days per week. As						
		their inability to work	by a current Help Desk employee	candidates for open	such, IV&V is closing this finding.						
		remotely. This is evidenced by	retiring early and citing this as the	positions.	04/30/2023 - No changes were						
		a current Help Desk employee	reason.		observed during April. The						
		retiring early and citing this as			parameters for BHA staff to						
		the reason. The Department			work remotely are still being						
		may consider granting remote			finalized by the executive						
		work to improve productivity			committee.						
		and help increase morale to			03/31/2023 - At the last						
		help ensure the existing short-			departmental executive						
		staffed issue is not further			committee meeting, a draft						
		exacerbated.			memo was discussed outlining						
					parameters for BHA staff to						
					work remotely. The parameters						
					are being finalized by the						
					executive committee. IV&V will						
					continue to monitor this low-						
					exposure project issue.						
					02/28/2023 - Again, there were						
					no changes to this finding						
					identified in February. IV&V will						
					continue to monitor this low						
					exposure project issue.						
					01/31/2023 - Again, there were						

27.00	8/31/2022 The current DDI period	Efforts to submit an IAPDU to	DHS/MQD identified discrepancies	DHS to obtain IAPU	04/30/2023 - The IAPDU	Project	Issue	High	Closed	Vic Dudoit	
	expires at the end of	pursue CMS Federal funding	with invoicing BHA claims which they	approval from CMS as	(through Mod 8) was formally	Managemen					
	October 2022 which will	approval for extending DD&I	are reconciling prior to the	soon as possible.	approved by CMS in early April.	t					
	require RSM to transition	through May 2023 have been	submission of an IAPDU.		The Project and its vendors are						
	the D365 solution to the	stalled as a result of claims		claims invoicing	no longer working at financial						
	State prior to contract	invoicing discrepancies.		discrepancies.	risk. IV&V is closing this high						
	end.			DHS to submit IAPDU	issue.						
				using the newly released	03/31/2023 - The IAPDU has still						
				template as soon as	not been formally approved by						
				possible.	CMS. The Project and its vendors						
					are still working at financial risk						
					with only 2 months remaining in						
					the DD&I phase. IV&V will						
					continue to monitor this high						
					criticality finding.						
					02/28/2023 - Although the						
					IAPDU was verbally approved by						
					CMS, a formal response has not						
					yet been provided. The Project						
					and its vendors are still working						
					at financial risk with only 3						
					months remaining in the DD&I						
					phase. IV&V will continue to						
					monitor this high criticality						
					finding.						
					01/31/2023 - The IAPDU has						
					been submitted to CMS for						
					review and approval, however a						

28.00	9/30/2022 The DDD Product Owner	The absence of the current	DDD Product Owner announced her	IV&V recommends a	01/31/2023 - The prior DDD	Project	Issue	Low	Closed	Vic Dudoit	
	resigned her position in	DDD Product Owner will cause	departure in September 2022 for	formal transition plan be	Project Owner returned to the	Managemen					
	September and will	major challenges for DDD as	early October.	fully defined and	project in January 2023, which	t					
	transition off the project in	she wore multiple hats and is	DDD Product Owner wears multiple	executed prior to the	once again provides DDD with						
	early October.	responsible for many aspects	hats supporting both business and	DDD Product Owner	an active voice for user story						
		of the day-to-day work from	administrative functions.	departure.	prioritization as well as input on						
		both an administrative and		IV&V recommends DDD	project concerns, risks, and						
		business perspective.		seek (internal/external)	issues. It is still assumed that all						
				multiple staff to replace	duties transitioned in October						
				the DDD Product Owner	and November will be reviewed						
				for each role served.	and re-evaluated to ensure that						
				IV&V recommends DDD	the DDD Product Owner's						
				consider soliciting	workload is not overloaded with						
				contracted staff to fill	non-project-related						
				the immediate gaps with	responsibilities. With the						
				the DDD Product	onboarding of an experienced						
				Owner's departure.	Product Owner for DDD, IV&V is						
					closing this finding.						
					12/31/2022 - DDD leadership						
					announced the prior DDD						
					Project Owner will return to the						
					project in mid-to-late January						
					2023. This is viewed as highly						
					positive and is certain to be a						
					benefit to the Project. It is						
					assumed that all duties						
					transitioned in October and						
					November will be reviewed and						

29.00	2/28/2023	RFP(s) for Project	The RFP(s) for expansion of	With three months left on the DDI	Continue to escalate RFP	06/30/2023 - CMS has provided	Project	Risk	Medium	Closed	Vic, Gautam Gulvady	
		Expansion and M&O Have	the solution and/or	contract, the Project Expansion and	approvals with DHS.	BHA a formal approval on the	Managemen				·	
		Not Been Approved by	maintenance of the existing	M&O RFPs have not been approved	Seek approval for	ADAD (Inspire Plus) IAPD and the	t					
		CMS.	solution has been submitted	by CMS.	extending the existing	SI and IV&V RFPs. As a result of						
			but not approved by CMS.		contract if feasible.	the CMS approvals, IV&V is						
						closing this risk.						
						05/31/2023 - CMS has notified						
						BHA that the ADAD components						
						included in IADPU #4 and the						
						RFP should be removed until						
						such time as another IAPDU is						
						submitted and approved. BHA						
						has awarded contracts for the						
						Inspire DDI project. RSM was						
						awarded the SI work and PCG						
						was awarded the IV&V services.						
						CMS approval of the contracts						
						are pending.						
						04/30/2023 - The RFP for Project						
						Expansion and M&O was						
						released in early April, and the						
						IAPDU was approved through						
						Mod 8. Solution Integrator						
						proposals for Project Expansion						
						are expected in early May. Based						
						on positive movement of these						
						important project elements,						
						IV&V has reduced the criticality						

30.00	2/28/2023	The Project deliverables	With three months left on the	N/A	N/A	05/31/202 - BHA has awarded	Project	Preliminary Concern	N/A	Closed	Vic Dudoit	
		contractually required of	DDI contract, it is not clear			contracts for the INSPIRE DDI	Managemen					
		RSM by the end of the DDI	what project deliverables are			effort. The Project is finalizing	t					
		period are not clear	contractually required from			the System, Security, and						
			RSM before the contract ends.			Architecture Blueprint						
						documentation deliverables.						
						IV&V is closing this preliminary						
						concern finding.						
						04/30/2023 - RSM continued to						
						work on documenting updates						
						to the System, Security,						
						Architecture Blueprint, and						
						Knowledge Transfer deliverables						
						which are expected to be						
						submitted to BHA by the end of						
						the DDI period. With a month						
						left on the DDI contract, the						
						Project needs to focus on						
						preparing for all aspects of						
						turnover and transition activities						
						of the Inspire solution.						
						03/31/2023 - RSM reported in						
						their last March status report						
						the System, Security,						
						Architecture Blueprint, and						
						Knowledge Transfer						
						documentation is on target for						
						completion and submittal to						

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