

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 (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	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.		Defined/documented roles and responsibilities for deployment support remain	



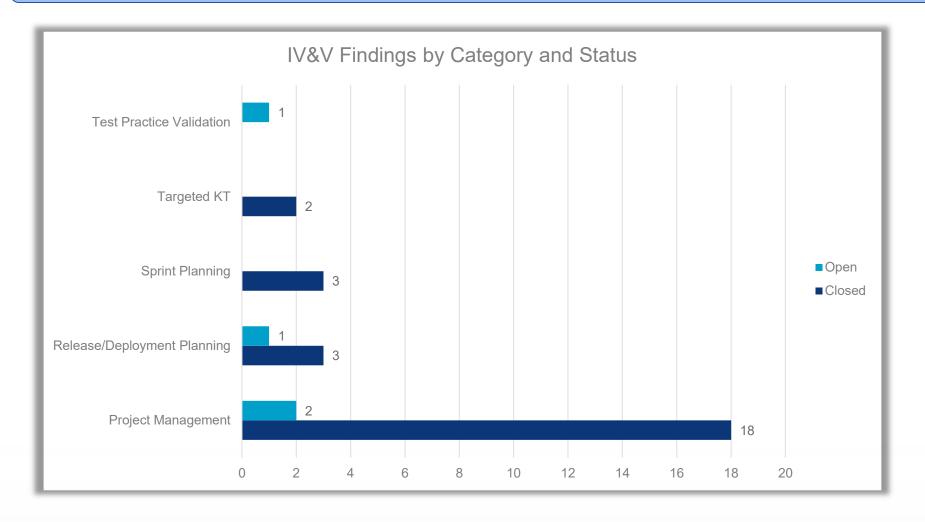
Executive Summary

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 active findings.	
G	G	G	Targeted KT This category remains Green (low criticality) for the June reporting period. IV&V continue to monitor.	
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 monit 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

#	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
Recor	nmendations	Status
• Pur	nmendations sue and complete additional formal training in AzureDevOps and Tricentis for test automation at the iest possible juncture and complete efforts to automate the 2 primary regression test scripts.	Status In progress
• Pur ear	sue and complete additional formal training in AzureDevOps and Tricentis for test automation at the	



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)

R	ecommendations	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	Status
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
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 	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
H	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

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)
- 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

Appendix C Project Trends

Trend:	Overal	l Projec	Trend: Overall Project Health										
Process Area	2022/2023												
Process Area	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													
		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	Finding	Finding Statement	Supporting Analysis	PCG Recommendation	Finding Update	Process Area	Finding Type	Priority	Status	Risk Owner	Closure Reason
4.00	Identified	Data that is a salination to the	n/OVC	While he is a like he had a second	A consideration of the state of	04/24/2020 19/09/15 desired his	Carlot	Budlindan Consum	N1 / A	Classid	Daniel Mila	D t li'ala
1.00	12/31/2019		, , ,	,	The state of the s	01/31/2020 - IV&V is closing this	l .	Preliminary Concern	IN/A	Closed	Ramesh, Vijaya	Due to multiple
			the following topics as they	good, the project should be able to	project should identify	,	Planning				(PCG)	new items
			relate to Sprint Planning and	identify what feature enhancements	what feature	items related to Definition of						being tracked
		1 ' '			enhancements will be	Done, roadmap, resourcing, and						at a more
		' "	to agile software	release. This roadmap will help the	targeted for each	backlog grooming in new,						granular level,
		· ·	development: - IV&V		Release and should	separate findings.						this item has
			acknowledges that the project	li control de la	clearly map out the							been closed.
			is now planning three sprints	"definition done" is an important	roadmap out through							
				artifact to ensure that the project is	the last Phase 3 release							
			only a "high-level" sprint	successful. Otherwise, the project will	· ·							
			planning roadmap has been		2020.Additionally, the							
			produced, and it is unclear	requests/enhancements and manage	l' , ,							
			exactly how the project is	scope.	define "Done" to ensure							
			targeting features for each		the project team is							
			release through the end of		working towards the							
			Mod 4 IV&V is not aware of		same goal and increase							
			how the project is currently		opportunities for							
			defining "done" for Mod 3 and		success. Having a clear							
			Mod 4Additionally, in the		"definition of done" will							
			January 2020 reporting period,		help provide the project							
			IV&V will seek additional		with guidance on how to							
			information and visibility into		stay within scope.							
			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									

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 sour	ce 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
	JavaScript framewo	rk for 2019 that the Calculator 3.0	offer organizations great	work to establish a	any additional KT gaps being						successfully
	development and o	ngoing 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 Cal	culator 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 securit	y. 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						
				_	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		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		J 0, ,	additional needs are identified,						
		went on extended parental			IV&V will close this finding.						
		leave in December 2019IV&V			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						

4.00	1 /21 /2020	D to the audient and	These have been several	A secondate water data and	100/	12/21/2020 IV8V has alread	Deleges /Deal	lianua	N 4 = ali	Classed	Damar Mandanald	Va finalina haa
4.00		Due to the project not following a detailed	There have been several defects pushed to production	A complete, up to date, and documented deployment script is	IVV recommends documenting	12/31/2020 - IV&V has closed this issue as the related	Release/Depl oyment	issue	Medium	Closed	Darren Macdonald	Key finding has been addressed
		deployment script, the	with Phase 3 releases. Some of	needed to ensure the repeatability	deployment scripts for	recommendations below has	Planning					and proposed
			the defects introduced to	and stability of DOH's production	both the patch method	been completed. A subsequent	Pianning					IV&V
		project may continue to experience defects related	production have been	· · · · · · · · · · · · · · · · · · ·	and the full solution	1 '						recommendati
		to deployment activities.	narrowed down to	deployments. Since there are currently two deployment types	upgrade method. The	medium issue finding (#19) has been opened to address ongoing						ns have been
		to deployment activities.	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
				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-
			'	is not mistakenly deprecated when	process and involve	(9) new defects were identified						going
			rules, missing components,	deployments take place.	several technical staff to	1						deployment
			missing dependencies, etc.).	deployments take place.	ensure staff availability							processes and
			IVV is aware that DOH staff		to accomplish these	causes are suspected to be a 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						issues.
			instruction and DOH staff		unavailable. Standardize	1 ' '						
			physically executing the tasks		the content of all	part of the implementation was						
			and activities via keyboard.		developer deployment	I						
			For Phase 3, it is unclear			not included in the deployment, resulting in contacts being						
			whether a complete, up to			deprecated from the Circle of						
			date, and documented			·						
			deployment script, or		ambiguity to the Deployment Team,	Support in Inspire. It is unclear if any other deployment issues						
			deployment notes, are being		' '	may have also contributed to						
			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 project lacks a	BHA does not have a	The 'Definition of Done" document		* * * * * * * * * * * * * * * * * * * *	Project	Preliminary Concern	NI/A	Closed	Ramesh, Vijaya	Definition of
3.00	1/31/2020		documented 'Definition of		Project is currently in the	created and documented the		Preliminary Concern	IN/A	Ciosea	(PCG)	Done
		Done", which could		guides the Project's vision, business,	process of creating the Definition of Done. IV&V	Phase 3 Definition of Done and	Managemen				(PCG)	
			Done' (DOD) for the BHA Top 100 User Stories of for Phase	and technical goals that are	recommends that the		ľ					completed and socialized.
		challenge the project's		important inputs for stakeholders to		socialized it in February. IV&V						socialized.
		ability to fully achieve the goals of Phase 3.	3. Because of this, it is unclear how proposed	develop a Roadmap for Phase 3. Without the 'Definition of Done'	project create this	recommends the project						
		goals of Pilase 5.	' '		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	' '						
				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.							

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	1/21/2020 The BUA Task size! To all	The BUA Technical Team of	The DUA Technical Teers leeds the	DUA poods and shared	01/21/2022 Ture BCC	Cariat	liceus	Low	Clasad	Darron Massleral	
7.00	1/31/2020 The BHA Technical Team bandwidth may not be	' '	The BHA Technical Team leads the efforts of all technical DOH staff on	BHA needs, and should	01/31/2023 - Two more RSM	Sprint Planning	Issue	Low	Closed	Darren Macdonald	
				pursue, additional	team members joined the						
	adequate to meet the	success. Currently, the	the project. As such, the Team's time	Knowledge Transfer	Project during January. IV&V has						
	needs of the project,	responsibilities associated	is both extremely valuable and	sessions on the updated	deemed the technical staff						
	which could compromise	with the BHA Technical Team	scarce. If the Team's expected	Calculator 3.0 solution	member levels to be sufficient						
	project productivity.	have expanded beyond their	workload exceeds bandwidth, the	The Project should	for the project needs, and as a						
		collective available bandwidth.	project could experience bottlenecks.	investigate mechanisms	result, we are closing this						
		IV&V notes that BHA began	Optimization of the BHA Technical	of increasing the	finding.						
		addressing this bandwidth	Team's time is to the benefit of the	bandwidth of the BHA	12/31/2022 - One additional						
		issue, which includes	project and plays a critical role in the	Technical Team, either	RSM team member was added						
		increased collaboration with	project's ability to hit performance	by adding resources	in December to meet the						
		key RSM resources, and are	targets and achieve the Phase 3	through new hires, or	demands of the larger-size						
		working to potentially change	definition of done.	vendor contracts.	release plans in releases R3.28 -						
		the structure of the Technical		The Project should	R3.30. In addition, two more						
		Team.		assess, where possible, if	RSM team members are joining						
					the Project in January. IV&V has						
				of the BHA Technical	deemed the staff levels to be						
				Team that can be	sufficient and as a result, we are						
				reassigned to other	reducing the criticality rating for						
				project staff.	this finding to a "Low". IV&V will						
				The Project should	continue to monitor this finding.						
					11/30/2022 - Additional RSM						
				evaluate where process	' '						
				inefficiencies can be	team members joined the						
				addressed and	Project in November to meet the						
				streamlined to possibly	demands of the larger-size						
				free up the BHA	release plans. IV&V has reduced						
				Technical Team's	the criticality of this issue to a						
				availability.	Medium priority.						
8.00	1/31/2020 The lack of a Product	BHA does not have a single,	A Roadmap is a tool that guides an	IV&V understands that	02/29/2020 - In February, the	Project	Preliminary Concern	N/A	Closed	Ramesh, Vijaya	Product
	Roadmap that provides	definitive Product Roadmap	agile project on what	the Project is in the	project further defined the	Managemen				(PCG)	Roadmap
	direction on the top	for Phase 3 that addresses the	functionalities/features are targeted	process of creating a	Phase 3 Product Roadmap and	t					aligned with
	product features to be	functionalities, features, and /	to be built and released and when	Short Term; Mid Term,	aligned it with the Phase 3						Definition of
	delivered in the near term	or enhancements to be built in	users can have access to these	and Long Term	Definition of Done. IV&V						Done
	(next 3 months), midterm,	order to fully address BHA's	functionalities. Without a defined	Roadmap. IV&V	recommends the project						
	and long term could have	business needs. IV&V met with	Roadmap the project may not be able	recommends the Project	continually review and update						
	an adverse impact on the	RSM and BHA on this topic in	to effectively scope the top features	complete this by the end	both the Product Roadmap and						
	Project's scope and	January, and notes that the	to be released within Phase 3 and	of February 2020 to	Definition of Done, adjusting as						
	schedule.	project is actively working to	ensure the correct resources are	understand if there are	necessary. IV&V will continue to						
		address this concern.	available to accomplish the goal of	any constraints	monitor the project's adherence						
			each sprint and the Phase.	(resources, budget) that	to the Product Roadmap and						
			Spring and the Fridge.	may hinder the project	progress against it but is closing						
				from releasing the	out this concern as of the						
				needed							
					February report.						
				functionalities/features							
				targeted for Phase 3 as							
				documented in the							
				Definition of Done.			1		L		

9.00	3/31/2020 The COVID-19 pandemic	On 3/23/2020, the Governor	DOH stakeholder participation in key	IV9.V recommends BHA	04/30/2021 - The Project	Project	Risk	Low	Closed	Darren Macdonald	The Project
9.00	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	Misk	LOW	Cioseu	Darren Macdonald	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	+					maintain its
	project activities and	reduced state departments		stakeholders on remote	remotely, effectively overcoming						ability to
	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		home order" that reduced BHA's						staff working
	budget.	workers will be required to	become overwhelmed processing	help them to become	ability to be fully functional in						remotely,
	budget.	work from home/remotely at	and providing services due to the	highly functional with	the office. The potential DDD						effectively
		· · · · · · · · · · · · · · · · · · ·	resulting economic impacts to	remote access	and CAMHD budget challenges						overcoming the
		some offices may be	citizens. Some stakeholders may be	technology (e.g.	reported in March were also						"stay at home,
		completely shut down until	unable (due to stricter shutdown	MSTeams/Skype) -	overcome during April, providing						work from
		that time as well. Unclear if	policies) or unwilling to perform	Completed- IV&V	fiscal relief to BHA. As such,						home order"
		the order will extend beyond	these activities during this chaotic	recommends the project	The state of the s						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
		that date.	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
			forward most if not all project	reviewed regularly and	responsibilities continue to grow						potential DDD
			activities will more than likely be	revised to address the	for CAMHD Leadership. The						and CAMHD
			conducted remotely until this crisis	current state of the	Governor announced that						budget
			passes.	COVID-19 threat and	potential furloughs and/or						challenges
			pusses.	related impacts over the	ļ'						reported in
				next 6 to 12 months - In	longer be necessary based on						March were
				Progress - IV&V	the signing of the American						also overcome
				recommends updates to							during April,
				· ·	the priority of this finding from						providing fiscal
				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
20.00	for complex user stories	during May where the code	design are not met, users could	DOH has commenced)	continues to to spend additional	l .	l reminiary consern	,	o.oscu	Darren Macadinaia	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
	solutions into production	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	1						requirements
		were functional, however the		with the design are met.							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						
					July.						
		I—————————————————————————————————————	1	1	I	I	l	l	L	l————	

11.00	7/31/2020 DDD 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
	shortages 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
	continued 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 user 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 overall 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			were nearing completion by the						determined
		support Inspire.			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.
				'	finding until DDD has had						
				how the system is	sufficient time to determine the						
				, ,	overall quality of the training						
				the user community.	work products and whether the						
				Consequently, users	new toolset is addressing user						
				· ·	adoption and staffing shortages						
				constructive feedback on							
				•	01/31/2021 - Training design						
				• •	activities using the interactive						
				•	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		production environment	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						
					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 Usage 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
15.00		obtain more targeted	Belaute	Delaare	made great strides addressing	Turgeteu Kr	Tremimary concern	,,,	Ciosca	Darrett Macaonala	made good
	· · · · · · · · · · · · · · · · · · ·	knowledge transfer of both			this concern. A Semantics Layer						progress
	the system requires BHA	the Semantics Reporting and			KT session was conducted on						establishing
		IDM tools. IV&V will continue			1/29/21 and multiple IDM and						and initial
	·	to monitor this concern.			Semantic Layer sessions has						execution of
	these tools.	lo momeor ems concern.			been scheduled in February.						the IDM and
	these tools.				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						Layer III piani
					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
17.00	issues requiring escalation	,	Beladit	project to continue to		ovment	13340	14/7	Closed		interactions
		several delays attributable to		monitor the status of		Planning					needed with
		issues escalated to Microsoft.		outstanding Microsoft	limited, and as such, IV&V is	i idililiig					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		liecessary.	interactions with Microsoft are						is no longer
		Government Cloud support			increasing again due to the						impeding
		instance), to several key			interface functionality planned						
		'' '			for implementation in the						project
		technical issues requiring assistance to resolve. To date,									progress.
		· ·			current and remaining DD&I releases. The FHIR API interface						
		these support needs have									
		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						

18.00	12/21/2020 Due to on going	Thoro have been several	Depostable desumented release and	Encura there are	06/20/2022 A doployment	Dologeo /Donl	licoup	Medium	lonon	Cautam Culavadu	
18.00	12/31/2020 Due to on-going	There have been several	Repeatable documented release and deployment will help ensure that	Ensure there are	06/30/2023 - A deployment error was highlighted as the root	Release/Depl ovment	issue	iviedium	Open	Gautam Gulavady	
	deployment processes and	defects pushed to production	' '	adequate and qualified	"	l '					
	technical execution issues,	with Phase 3 releases. Some of	mistakes are minimized, and that		cause for one of the post R3.32	Planning					
	the Project may continue to encounter defects and	the defects introduced to production have been	functionality is not mistakenly	current deployment processes. This may	production release defects.						
	I	'	deprecated when deployments take	'	While the deployment issues						
	challenges in meeting	narrowed down to	place.		have been fewer with the last						
	projected timelines for production and non-	environmental promotional activities. In these instances,		RSM resources to provide assistance and	few releases, this is still an area of concern for IV&V. IV&V will						
	l'	· ·		!'							
	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 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		li -	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	, , ,	The RSM contract for Phase 3	DOH needs to be in a position to		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		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		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.		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	_	closing this preliminary concern.						
		maintaining the D365 solution	entire system, there is a risk that		04/30/2021 - The RSM contract						
		without vendor support until	environment stability may be	consider developing,	amendment is still pending						
		· ·	challenged.	testing, and promoting	approval. This amendment will						
		effort is procured and		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						
		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	
		· ·	Model shows a planned		from CMS.	approved by Federal partners in						
		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

25.0	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	
		project governance	governance can lead to:	CAMHD and DDD differ but both	project governance	approved BHA – INSPIRE	Managemen					
		structure is impeding	•Untimely and/or uninformed	divisions need equal and fair	structure to allow	Solution Program Charter sent	t					
		decision-making	decision-making	representation of how work is being	CAMHD, DDD, and other	by BHA in October and has						
		procedures and overall	Project delays and overruns	prioritized and performed.	divisions to 1) have a	determined this finding can be						
		leadership cohesiveness.	Breakdown in		single point of	closed.						
			communications and		accountability, 2) ensure	09/30/2022 - The Project Charter						
			collaboration		the right projects are	was signed and approved during						
			•An erosion of project team		approved, 3) outline	September, which is the first						
			trust		roles, responsibility and	step in enacting a formal						
					relationships among	governance process for the						
					project stakeholders, 4)	project. IV&V will continue to						
					provide issue	monitor the governance						
					management and	activities.						
					resolution, and 5) help	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		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 transitio		submission of an IAPDU.	DHS to reconcile current	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.		, , , , , , , , , , , , , , , , , , , ,	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	
			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 T	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	
	c	contractually required of	DDI contract, it is not clear			contracts for the INSPIRE DDI	Managemen					
	F	RSM by the end of the DDI	what project deliverables are			effort. The Project is finalizing	t					
	ļ,	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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