

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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February 6, 2024

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 (Feb 9, 2024 11:37 HST)

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)





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

IV&V Report for the period of

December 1 - December 31, 2023

Final Submitted: January 08, 2024



Agenda

Executive Summary

IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





For the month of December, the R4.3 Golden Record (GR) mid-sprint deployment (MSD) system went live on 12/21/2023. The deployment process went smoothly with no issues. R4.3 GR MSD regression testing was not performed, end to end GR regression testing will be executed when the full GR functionality is implemented. RSM and Behavioral Health Administration (BHA) are currently finalizing the GR readiness checklist and the Standard Operating Procedures (SOPs) for using GR production data. IV&V will monitor the system for any defects that may occur after the data is in use in production. Any such defects will be resolved in the next reporting period.

As per the discussion related to Sprint reviews, RSM and BHA have a product backlog review process. IV&V will begin participating in and reviewing this process going forward.

During the Steering Committee meeting on 12/12/2023, DDD representative communicated that the signed Governor's memo has been received with a go-ahead to execute the IV&V contract. However, the contract has not yet been executed.

The Fast Healthcare Interoperability Resources (FHIR) project is continuing to progress. The System integrator (SI) vendor and Microsoft (MS) are currently working on the authentication work, converting the data, and testing.

Oct	Nov	Dec	Category	IV&V Observations
Y	process and monitor future Sprint reviews to ensure alignment with stakeholders' nee		RSM and BHA have a product backlog review process in place. IV&V will observe this process and monitor future Sprint reviews to ensure alignment with stakeholders' needs. IV&V will review the product backlog (living artifact), observe the product backlog review process. The category remains green in the December reporting period.	
G	G			There are no active findings in the User Story (US) Validation category which remains Green (low criticality) for the December reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.



Oct	Nov	Dec	Category	IV&V Observations		
Y	Y	Y	Test Practice Validation	Tricentis coaching sessions and coding of the automation is ongoing. R4.3 Golden Record (GR) mid-sprint deployment (MSD) went live on 12/21/2023 - GR MSD regression testing was not performed, end to end GR regression testing will be executed when the full GR functionality is implemented. The procedural concern is yet to be addressed. This category remains Yellow (medium criticality) for the December reporting period.		
Y	Y	Y	Release / Deployment Planning	R4.3 Golden Record (GR) mid-sprint deployment (MSD) went live on 12/21/202 RSM and BHA are in the process of finalizing the GR readiness checklist and the SOPs to use GR production data. IV&V will continue to monitor open issues an attend meetings to provide recommendations in the next reporting period. This category remains Yellow for December.		
G	G	G	OJT and KT Sessions	This category remains Green (low criticality) for the December reporting period w no active findings.		
G	G	G	Targeted KT	This category remains Green (low criticality) for the December reporting period. IV&V will continue to monitor.		



Oct	Nov	Dec	Category	IV&V Observations	
G	G	G	Project Performance Metrics	There are no project performance metrics to report for this reporting period. IV&V w keep the criticality rating for this category a Green (low criticality) and will continue monitoring this category.	
Y	©	G	Organizational Maturity Assessment (OMA)	This category remains Green for the December reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.	
R	R	R	Project Management	R4.3 Golden Record (GR) mid-sprint deployment (MSD) went live on 12/21/2023 RSM and BHA are in the process of finalizing the GR readiness checklist and the SOPs to use GR production data. IV&V will monitor and attend meetings for quality and provide recommendations in the next reporting period. During the Steering Committee meeting on 12/12/2023, DDD representative communicated that the signed Governor's memo has been received with a go-ahead to execute the IV&V contract. However, the contract has not yet been executed.	



Oct	Nov	Dec	Category	IV&V Observations
Y	R	R	Resource Management	As an update to Finding #34 , during the Steering Committee meeting on 12/12/2023, DDD representative communicated the three positions identified, were not included in the budget. DDD will submit a variance for an IT position.



As of the December 2023 reporting period, there were no new findings. The ten open findings are updated – two High Issues, four Medium Issues, one High Risk, one medium Risk and two Preliminary Concerns spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, and Project Management and Resource Management assessment areas.

Open Risks/Issues by Category/Priority





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 Transition (KT) Sessions
- Targeted Knowledge Transition (KT)
- Project Performance Metrics
- Organizational Maturity Assessment
- Project Management
- Resource Management



Sprint Planning

#	Key Findings	Criticality Rating
	Preliminary Concern: Lack of regular Sprint reviews and sprint demos will likely lead to misalignments between delivered work and stakeholder needs.	
31	December Finding Update: The vendor and BHA have a product backlog review process in place. IV&V will review the product backlog (living artifact), observe the product backlog review process and will monitor future Sprint reviews.	N/A

Recommendations	Status
 According to Agile Best Practices, IV&V recommends including Sprint reviews and demos in future releases (R4.2 and onwards) with all relevant stakeholders to assess the completion of user stories, review important metrics and outcomes, and confirm if the Sprint goal has been achieved. This approach would also help ensure the backlog is prioritized and well-prepared for the next Sprint. These are some recommendations for project alignment, stakeholder engagement, quality assurance, transparency, and the incorporation of user feedback. 	In Progress
 Strengthen the collaboration between development teams and stakeholders by enhancing communication channels. Regularly validate project objectives and ensure that sprint deliverables remain consistent with stakeholder requirements. 	In Progress
 Foster active participation from users and stakeholders during both Sprint Reviews and Sprint Demos. Emphasize the value of iterative feedback to guide development and ensure that user needs are consistently met. 	Open



Sprint Planning (Cont'd)

Recommendations	Status
 Establish standardized communication protocols for both Sprint Reviews and Sprint Demos. Encourage teams to deliver concise and informative progress reports, including achievements, challenges, and future plans. This will enhance stakeholder engagement and project transparency. 	In Progress
 Create a stakeholder register to identify all stakeholders. List their identification, assessment, and classification. Review the register regularly to plan appropriate stakeholder engagement. 	Open
 Institute a structured documentation process for both activities. Document key decisions, action items, and insights from each session to ensure accountability and to support ongoing process improvement. 	Open



Test Practice Validation

#	Key Findings	Criticality Rating
2	Medium Issue: As a result of automated regression testing not being comprehensively performed, production releases are breaking and/or deprecating existing functionality in the production environment. December Finding Update: Tricentis coaching sessions and coding of the automation is ongoing. Golden Record (GR) mid-sprint deployment (MSD) that went live on 12/21/2023 - GR MSD regression testing was not performed, end to end GR regression testing will be executed when the full GR functionality is implemented. The procedural concern is yet to be addressed.	M
Reco	mmendations	Status
reg	ving board(s) in Azure DevOps or a document on SharePoint that provides information about the status of gression testing automation, to facilitate visibility and transparency to BHA project personnel and likeholders.	Open
wil	hedule priorities should be reevaluated by distributing the work according to the resource bandwidth. This I ensure that the schedule is not impacted and that the work is done efficiently between regression testing d GR.	In progress
	rsue and complete additional formal training in AzureDevOps and Tricentis for test automation at the rliest possible juncture and complete efforts to automate the 2 primary regression test scripts.	In progress



Release / Deployment Planning (cont'd)

#	Key Findings	Criticality Rating
Ī	Medium Risk: Golden Record (GR) project delays are likely to delay the implementation of future features and functionality.	
32	December Finding Update: Golden Record (GR) mid-sprint deployment (MSD) went live on 12/21/2023. RSM and BHA finalizing the GR readiness checklist and SOPs in order for GR production data to be used. CAMHD and DDD to review the audit report currently available to determine if it meets BHA's needs. IV&V will continue to monitor open issues and attend meetings and will provide any recommendations in the next reporting period.	M

Recommendations	Status
Recommend that BHA works with IV&V to assess GR critical issues to assist in determining the path forward.	Closed
 Prior to implementation of the GR production data use, needed updates to the consent form should be confirmed and completed, policies/procedures for all users should be confirmed, and all open defects should be resolved. 	In Progress
• Identify the objective of implementing GR production data use, benefits, current gaps in design, effort estimates, resource commitments, and impact of having/not having GR.	In Progress
Analyze the impact on the future functionalities and assess the implications if this strategic change is needed.	In Progress



Project Management

#	Key Findings	Criticality Rating
	Medium Issue: Due to multiple quality concerns, the Project may continue to face impactful system defects.	
14	December Finding Update: R4.3 Golden Record (GR) mid-sprint deployment (MSD) went live on 12/21/2023. IV&V is monitoring GR MSD for quality.	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

#	Key Findings	Criticality Rating
	Medium Issue: Performance bottlenecks with the INSPIRE production environment may result in low productivity and poor user experience.	
33	December Finding Update: IV&V to discuss performance test planning with BHA for upcoming release(s) with significant new features/functionality.	M

Recommendations	Status
Conduct load and performance testing for each release with significant new features/functionality.	Open
Create a plan for comprehensive performance testing and address any performance bottlenecks.	Open
Have the benchmark assessments done annually and implementation of Azure App Insights for Power Platform.	Open

#	Key Findings	Criticality Rating
	Preliminary Concern: Lack of an ongoing cleanup process may lead to clutter and reduce Azure DevOps effectiveness in supporting the INSPIRE project management and tracking needs.	
35	December Finding Update: RSM and BHA are standardizing (on-going process) the tags used in Azure DevOps and their usage, and are cleaning up the Azure DevOps environment. The tags will be used from R4.4 onwards. This should help optimize the workflow and make it more streamlined. IV&V will continue to monitor the usage of tags and the cleanup process.	N/A

Recommendations	
 DevOps cleanup is an ongoing process. The usage and configuration of the Azure DevOps (AD) environment should be regularly monitored to prevent clutter and maintain its effectiveness in supporting the INSPIRE project management and tracking needs. 	In Progress
 Configuration Review: Evaluate the Azure DevOps (AD) configuration settings. Ensure workflows, issue types, custom fields, and other settings are aligned with the project's needs and industry best practices. 	In Progress
 Optimize Boards and Filters: Review the boards, filters, and tags in Azure DevOps (AD) to ensure they accurately reflect the status of work, and they are designed to facilitate efficient tracking and collaboration. This will help streamline and make it easier to find relevant information. 	In Progress
 User Training and Best Practices: Provide training to Azure DevOps (AD) users to ensure they are using the tool effectively. Share best practices for issue creation, workflow management, and collaboration. 	Open
Establish a plan for regular maintenance of Azure DevOps (AD). Regularly review and clean up old issues, adjust workflows as needed, and ensure that configurations remain aligned with evolving needs.	Open



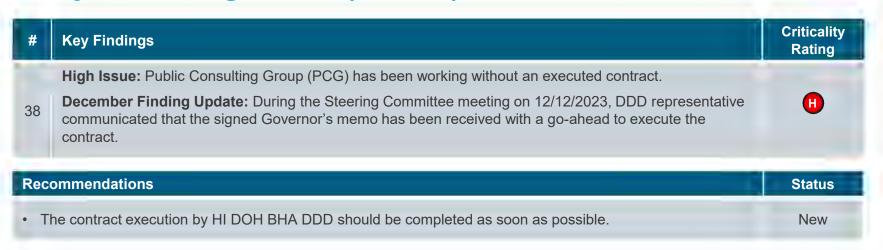
#	Key Findings	Criticality Rating
	Medium Issue: Lack of a comprehensive project schedule could lead to missed tasks, project delays, and cost overruns.	
36	December Finding Update: IV&V reviewed the vendor's final proposal regarding an approach to maintaining a complete project schedule, which doesn't appear to describe an alternate approach to maintaining a project schedule as requested by the RFP. The vendor has communicated that they will provide a complete project schedule for the Analytics project.	M

Recommendations	
Establish a clear project schedule management plan that outlines roles, responsibilities, and accountability for schedule adherence.	Open
 Create and baseline a comprehensive project schedule in MS project, Smartsheet, or a similar tool, containing tasks for both SI vendor and State, task dependencies, and resourcing. 	Open
Implement regular schedule reviews and updates to ensure alignment with project objectives and milestones.	Open



#	Key Findings	Criticality Rating
	High Issue: RSM has been working without an executed contract since the expiration of the original contract	
37	December Finding Update: During the Steering committee meeting on 12/12/2023, DDD representative communicated that the signed Governor's memo has been received with a go-ahead to execute the contract. DOH received the contract signed by RSM on 12/25/2023.	T)
Rec	ommendations	Status
• TI	ne contract execution by HI DOH BHA DDD should be completed as soon as possible.	New







Resource Management

#	Key Findings	Criticality Rating
	High Risk: A shortage of Behavioral Health Administration (BHA) project resources could lead to reduced productivity and project delays.	
34	December Finding Update: During the Steering committee meeting on 12/12/2023, DDD representative communicated that the three positions were not included in the budget. DDD will submit a variance for an IT position.	H

Recommendations	Status
BHA should explore options for offloading project team members' daily responsibilities to other staff.	Open
BHA should work quickly to backfill vacated project team member positions.	Open
BHA should identify tasks and duties that they can ask the SI to assume, as permitted by the contract, which are presently being handled by BHA members.	Open



Project Performance Metrics

Metric	Description	IV&V Observations	IV&V Updates			
			Velocity	Metric Tre	ends:	
	Review and validate		Release	Planned Velocity	Actual Velocity	Percentage Attained
Velocity	 the velocity data as reported by the project Verify the project is on pace to hit the total target number of US/USP 	R4.3 Golden Record (GR) mid-sprint deployment (MSD). 68 USPs were promoted to production on 12/21/23 for R4.3 Golden Record (GR) mid-sprint deployment (MSD).	R4.3 GR MSD	68	68	100%

Project Performance Metrics (cont'd.)

Metric	Description		IV&V Updates
Defect Metrics	Understand and track the following: • Defects by category (bug fixes) • USPs assigned to defects in a release vs. USPs assigned to planned US in a release	December - Velocity was estimated at 68 for R4.3 Golden Record (GR) mid-sprint deployment (MSD). 68 USPs were promoted to production on 12/21/23 for R4.3 Golden Record (GR) mid-sprint deployment (MSD). 96% of the USPs were associated with planned user stories and requests. 4% of the total USPs were associated with defects encountered during the release effort or pulled from the backlog.	The defect percentage for December was 4% which is under the target range of 20% or less of all USPs promoted to production.



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.



R

Appendix A

Finding Criticality Ratings

Criticality Rating	Definition
B	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.
U	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 December 2023 reporting period:

- 1. Daily Scrum Meetings
- 2. Daily Design Meetings
- 3. Twice Weekly RSM Issues Meeting
- 4. Weekly BHA-ITS Program Status Meeting
- 5. Bi-Weekly Check-in: CAMHD
- 6. Bi-Weekly Check-in: DDD
- 7. IV&V Draft IV&V Status Review Meeting with DOH
- IV&V Draft IV&V Status Review Meeting with RSM and DOH
- DOH BHA IT Solution Project Steering Committee 2023
- 9. IV&V Hand-off Meeting
- 10. DDD Testing Meeting
- 11. CAMHD Testing Meeting

Eclipse IV&V® Base Standards and Checklists



Artifacts reviewed during the December 2023 reporting period:

- 1. Daily Scrum Notes
- 2. Twice Weekly Issues Meeting Notes
- 3. Weekly BHA-ITS Program Status Report



Appendix C Project Trends

Dua										
Process Area	Mar	Apr	May	Jun	July	August	September	October	November	December
User Story Validation										
Test Practice Validation	-									
Sprint Planning				- +1						
Release / Deployment Planning	1									
OJT and KT Sessions	1									
Targeted KT										
Project Performance Metrics										_
Organizational Maturity Metrics										
General Project Management	1.5					= =				
Resource Management										
Total Open Findings	10	9	6	4	5	11	11	11	10	10
Issue - high	2	1	1	0	0	2	2	2	2	2
Issue - medium	3	4	3	4	3	5	5	5	4	4
Issue - low	3	2	1	0	0	0	0	0	0	0
Risk - high	1	0	0	0	0	0	0	0	0	1
Risk - medium	0	1	1	0	1	2	2	2	2	1
Risk - low	0	0	0	0	0	0	0	0	0	0
Preliminary Concern	1	1	0	0	1	2	2	2	2	2



Solutions that Matter

Id	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status Cl	losed Date	Identified Date	Owner
2	As a result of regression testing not being	R3.3 introduced a defect that deprecated features in	Thorough vetting and validation of regression test cases is	Having board(s) in Azure DevOps or a	12/31/2023 - Tricentis coaching sessions and	Test Practice	Issue	Medium	Open		12/31/2019	Gautam
	consistently performed, production releases	production specific to Integrated Support and Life Trajectory	necessary to prevent both defects and the deprecation of	document on SharePoint that provides	coding of the automation is ongoing. Golden	Validation						Gulvady
	are breaking and/or deprecating existing	functionality. DDD has informed IV&V that there are other	production functionality when a release is pushed live. When	information about the status of regression	Record (GR) mid-sprint deployment (MSD)							
	functionality in the production environment.	examples of functionality being deprecated after a release,	defects occur in production, the project should follow a defined	testing automation, to facilitate visibility	went live on 12/21/2023 - GR MSD regression							
		some of which are still being investigated. As of this report,	and repeatable process for determining the root cause of the	and transparency to BHA project	testing was not performed, end to end GR							
		IV&V has not evaluated the project's root cause analysis	problem.	personnel and stakeholders.	regression testing will be executed when the							
		(RCA) process used to determine why such functionality was			full GR functionality is implemented. The							
		deprecated but will discuss further with BHA in January 2020.		IV&V recommends reevaluating the	procedural concern is yet to be addressed.							
				schedule priorities by distributing the								
				work according to the resource	11/30/2023 - Tricentis coaching sessions and							
				bandwidth. This will ensure that the	coding of the automation is ongoing. R4.3							
				schedule is not impacted and that the	regression testing was completed in part							
				work is done efficiently between	manually and in part automated. R4.3 went live							
				regression testing and Golden Record	on 11/09/23 as planned. IV&V will monitor and							
				(GR).	review the overall automated regression							
					coaching and testing progress. The procedural							
				Pursue and complete additional formal	concern is yet to be addressed.							
				training in AzureDevOps and Tricentis for								
				test automation at the earliest possible	10/31/2023 - Tricentis coaching sessions are							
				juncture and complete efforts to automate	ongoing. Coding of the automation is ongoing;							
					R4.3 regression testing is being done partly							
				IV&V recommends DDD and CAMHD to	manually and automated. IV&V will monitor							
				develop a common and consistent	and review the automated regression testing							
				approach across divisions for performing	results and determine whether the procedural							
				regression testing.	concern has been addressed.							
				Determine if current regression testing								
				timeframes are adequate and if not, add	09/30/2023- The Tricentis coaching kicked off							
					on September 18th, 2023. The meeting was							
				regression test efforts for all release	attended by personnel from CAMHD, DDD,							
1				deployments.	Tricentis, IV&V, and RSM. The coaching							
				Updating the regression test scripts to	sessions are scheduled between October 2023-							
				ensure consistency with system	and November 2023. and the test case							
i				configuration.	development was planned through May 2024.							
				Modifying release schedules to allow for	IV&V will manitar to varify whather the	I						

Id	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner
4		System defects identified in August that affected claims were		Evaluate existing project staff skills and	12/31/2023 - R4.3 Golden Record (GR)	Project Management	Issue	Medium	Open		9/30/2020	Gautam
	may continue to face impactful system	due to multi-faceted quality issues were individually	billing processes and DOH has stated these are the most		Midsprint deployment (MSD) went live on							Gulvady
	defects.	addressed during this reporting period. IV&V notes that there	impactful defects discovered to date.	support requirements.	12/21/2023. IV&V is monitoring GR MSD for							
		is one remaining defect still being evaluated that affects a		Perform revenue neutrality fiscal balance	quality.							
		limited number of claims. Overall, the Project Team has		testing on a quarterly basis to ensure								
		responded with a commitment to increase project quality and		revenues are as expected.	11/30/2023 - R4.3 went live on 11/09/23 as							
		is in the process of identifying improvements to associated		Assign dedicated resources to provide	planned. A high-priority R4.2 post-production							
	F s C	testing processes. These currently include:Performing		oversight of CAMHD Fiscal Processes.	fix was deployed with R4.3. There are currently							
		Revenue Neutrality Testing to ensure expected revenue		Monitor implemented improvements for	no R4.3 post-production bugs. IV&V will							
		streams are largely unchanged from one period to the next.		effectiveness.	monitor R4.3 for quality.							
		Conducting System Integration Testing, User Acceptance		IV&V recommends performing an RCA in								
		Testing, Performance Testing, and Regression Testing for		collaboration with RSM after all future	10/31/2023 - R4.3 development is progressing							
		Release 3.10. IV&V will continue to monitor the testing		release deployments for continual quality	well. Hard code was frozen on 10/24/23 and go	1						
		efforts throughout the balance of Release 3.10 and validate		improvement.	live is planned for 11/09/23. A high-priority							
		that enhanced quality processes, including industry standard		BHA and RSM to collaborate on the	R4.2 post-production bug will be deployed with							
		regression testing, continue for Agile Release 3.11 forward.		necessary revisions to the submitted	R4.3. IV&V will monitor R4.3 for quality.							
		Finally, IV&V reviewed and provided feedback on the Help		design deliverables to increase level of								
		Desk and Semantic Layer design documents per request and		detail and quality.	09/30/2023 - R4.2 was deployed on 9/14/23,							
		found that both documents lacked design details.		Perform typical project testing including	and the delivery quality was positively							
				System Integration, User Acceptance,	received. There was also a post-production							
				Performance, and Regression Testing.	defect from R4.1 that was also deployed with							
				Dedicate sufficient time in between	R4.2. As of now, there is only one high-priority							
				releases for BHA and RSM to	R4.2 post-production bug that has been fixed							
				execute/implement RCA correction	and is pending approval by BHA. IV&V will							
				actions to reduce the volume of	monitor R4.3 for any quality concerns							
				unplanned rework.	08/31/2023 - There were no deployments in							
					August 2023. The SI vendor continued to work							
					on one high-priority R4.1 post-production bug.							
					The Golden Record (GR) deployment has been							
					postponed and date is yet to be determined							1
					since the BHA identified more issues during the							1
					testing.							1
				1								
					07/31/2022 - The P4 1 deployment in July had	I	1		1			I

d	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner
	Lack of regular Sprint reviews and sprint	Earlier in the project, end-of-sprint demos that were	Based on Agile Best Practices, Sprint Demoes or reviews occur	According to Agile Best Practices, IV&V	12/31/2023 - The vendor and BHA have a	Sprint Planning	Preliminary	N/A	Open		7/26/2023	Gautam
	demos will likely lead to misalignments	conducted.Sprint reviews/demos help to bring alignment	during a sprint, with the development team, scrum master, and	recommends including Sprint reviews and	product backlog review process in place. IV&V		Concern					Gulvady
	between delivered work and stakeholder	across the team and stakeholders. They are essential building	product owner.	demos in future releases (R4.2 and	will review the product backlog (living artifact),							
	needs	blocks for better software and teams. Sprint demos /reviews		onwards) with all relevant stakeholders to	observe the product backlog review process							
		showcase the main functionality to stakholders and	Sprint reviews/demos are crucial in bringing alignment across	assess the completion of user stories,	and will monitor future Sprint reviews.							
		incorporate their feedback. Currently, the project has joint	the team and stakeholders. It is a great opportunity for the	review important metrics and outcomes,								
		testing involving the SI and BHA personnel. Per Agile Best	product owner, stakeholders, and the team to review what's	and confirm if the Sprint goal has been	11/30/2023 - The vendor and BHA have a							
		practices, IV&V believes having Sprint demos/reviews during	being delivered and receive feedback. This way, the team can	achieved. This approach would also help	product backlog review process in place. IV&V							
		a sprint helps clarify and validate design prior to testing, steer	gauge responses and make observations earlier during	ensure the backlog is prioritized and well-	will observe the product backlog review							
		the team in the right direction and help avoid big mistakes.	development, and not later during testing. Celebrating the	prepared for the next Sprint. These are	process and will monitor future Sprint reviews.							
		This would also allow the testing team to focus solely on	team's accomplishments is also an essential part of these	some recommendations for project								
		testing, which is beneficial.	demos. Moreover, they are invaluable in steering the team in	alignment, stakeholder engagement,	10/31/2023 - The vendor has confirmed that							
			the right direction and avoiding big mistakes. It's interesting to	quality assurance, transparency, and the	they will provide demonstrations of new							
			note that the Sprint demo could bring to light bugs such as R4.1	incorporation of user feedback.	functionality/features as part of Sprint Reviews							
			bug 34055 on the Portal, where the checkbox is on the left of	2. Strengthen the collaboration between	going forward. In parallel, joint testing of							
			the text.	development teams and stakeholders by	bugs/user stories continues. IV&V will work							
				enhancing communication channels.	with BHA and the vendor to understand the							
				Regularly validate project objectives and	product backlog review process.							
				ensure that sprint deliverables remain	ľ.							
				consistent with stakeholder requirements.	. 09/30/2023 - RSM conducted some demos							
				3. Foster active participation from users	during the emergency wildfire-related							
				and stakeholders during both Sprint	communications for the email and SMS tools.							
				Reviews and Sprint Demos. Emphasize the	The System Integrator (SI) Contract review and							
				value of iterative feedback to guide	discussions are underway to refine processes							
				development and ensure that user needs	and establish measurements for this.							
				are consistently met.	Discussions are in progress to refine processes							
				4.Establish standardized communication	and establish measurements for this category.							
				protocols for both Sprint Reviews and								
				Sprint Demos. Encourage teams to deliver	08/31/2023 - As per Agile Best Practices, it is			1				
				concise and informative progress reports,	important to have sprint reviews/demos in			1				
				including achievements, challenges, and	order to align the team and stakeholders and		1					1
				future plans. This will enhance stakeholder	_ ~		1					1
				engagement and project transparency.	Currently, the project has joint testing involving		1					
					the SL and RHA personnel IV&V helioves that		1	1	1			1

Id	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner
32		Due to issues with the Golden Record (GR) solution, the	GR implementaion has been delayed several times. As a result,	I .	1 ' ' '	Release/Deployment	Risk	Medium	Open			Gautam
	be delayed	project may experience delays and a shift in focus from	GR is impacting the INSPIRE release schedule. E.g., Mid-sprint	assess GR critical issues to assist in	deployment (MSD) went live on 12/21/2023.	Planning						Gulvady
		critical functionality. The GR is a crucial element that affects	deployment (MSD) has been postponed multiple times. BHA	determining the path forward.	RSM and BHA finalizing the GR readiness							
		several user stories dependent on it. The deployment of the	reviewing original requirements and evaluating if BHA needs to		checklist and SOPs in order for GR production							
		GR has been postponed to 08/19/2023, resulting in the	revisit the design.	Prior to implementation of the GR, needed	data to be used. CAMHD and DDD to review							
	transfer of approximately 150 s	transfer of approximately 150 story points into R4.2 and		updates to the consent form should be	the audit report currently available to							
		subsequent releases. However, it is unclear which releases		confirmed and completed,	determine if it meets BHA's needs. IV&V will							
		will include the GR-related user stories		policies/procedures for all users should be	continue to monitor open issues and attend							
				confirmed, and all open defects should be	meetings and will provide any							
				resolved.	recommendations in the next reporting period.							
					11/30/2023 - GR production data use continues	,						
				Identify the objective of implementing GR,	to be delayed. Mock migration was completed							
				benefits, current gaps in design, effort	in early November 2023. Per the daily scrum							
				estimates, resource commitments, and	meetings and weekly issues meetings, BHA is							
				impact of having/not having GR.	testing the 12 GR items. Currently, RSM and							
				Analyze the impact on the future	BHA are finalizing the GR readiness checklist							
				functionalities and assess the implications	and SOPs. CAMHD and DDD to review the audit	t						
				if this strategic change is needed.	report currently available to determine if it							
					meets BHA's needs. IV&V will continue to							
					monitor the open issues and attend meetings							
					and will provide any recommendations in the							
					next reporting period.							
					10/31/2023 - GR production data use continues	5						
					to be delayed. Per the weekly issues meeting							
					and R4.3 Release Notes, it was discussed that							
					12 GR items will be included in R4.3. The mock							
					migration is planned for the first week of				1			
					November. Currently, RSM and BHA are				1			
					developing the GR readiness checklist and				1			
					SOPs. IV&V will continue to monitor the open				I			
					issues and attend meetings and will provide				1			
				1	any recommendations in the next reporting	1	I	1	1	1	1	1

Id	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner
33	Performance bottlenecks with the INSPIRE	Performance issues have been identified that have the	Developmental Disability Division (DDD) personnel are	Conduct load and performance testing	12/31/2023 - IV&V to discuss performance test	Project Management	Issue	Medium	Open			Gautam
	production environment may result in low	potential to impact the system's functionality, user	encountering performance issues with re-assigning cases, and	for each release that has significant new	planning with BHA for upcoming release(s)							Gulvady
	productivity and poor user experience.	experience, and the overall reliability of the system. These performance issues warrant immediate attention and	opening the DDD – Contact Notes (Fiscal View – Complete) view. CAMHD has not reported performance issues.	features/functionality.	with significant new features/functionality.							
		resolution.		2. Create a plan for comprehensive	11/30/2023 - IV&V has discussed the next steps							
				performance testing and address any	with BHA (see updated recommendation #1).							
				performance bottlenecks.								
					10/31/2023 - The IV&V review of the draft							
					vendor contract indicates that the vendor is							
				annually and implementation of Azure App	accountable for conducting load and							
				Insights for Power Platform.	performance testing of INSPIRE. IV&V will							
					discuss the next steps with BHA and provide							
					recommendations in the next reporting period.							
					09/30/2023 - The SI vendor draft contract is							
					currently under review by IV&V, while the							
					terms of the new contract are currently being							
					finalized. IV&V will determine whether the							
					contractor is responsible for addressing							
					performance issues under the draft contract							
					terms.							
					08/31/2023 - The Microsoft (MS) Cloud							
					Architect team conducted a Benchmark							
					assessment of the MS Dynamics 365 system							
					and executed performance and load tests in							
					May 2023 (?) on R3.1 in the System Integration							
					Test (SIT) environment. CAMHD provided 20							
					test scenarios that covered certain				1			
					transactions. DDD personnel were not involved				1			
					in this testing. The original solution delivery				I			
					contract states that the Contractor shall				1			
					address performance bottlenecks of its				1			
					solutions. The terms of the new contract are		1		1	1		I

Id	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner				
	l l															
	Shortage of Behavioral Health	Key BHA project resources have reported constraints on how	If BHA is unable to fully staff the project and their existing	1. BHA should explore options for	12/31/2023 - During the Steering committee	Resource	Risk	High	Open		8/18/2023	Michael For				
	Administration (BHA) project resources	much time they can devote to the project. The departure of	resources continue to be constrained, the project could	offloading project team members' daily	meeting on 12/12/2023, DDD representative	Management										
	could lead to reduced productivity and	the Child and Adolescent Mental Health Division (CAMHD)	experience a reduction in productivity and project delays.	responsibilities to other staff	communicated since the three positions were											
	project delays.	System Management Office Manager and CAMHD Inspire		BHA should work quickly to backfill	not included in the budget, DDD to submit a											
		Project Lead could further impact the project if DOH cannot		vacated project team member positions.	variance for an IT position.											
		acquire suitable resources. The lack of capacity of the DOH		BHA should identify tasks and duties												
		test script developer has slowed DOH's automated test script		that they can ask the SI to assume, as	11/30/2023 - DDD took proactive steps to											
		development.		permitted by the contract, which are	address the IT shortages by creating three											
				presently being handled by BHA members	. position descriptions along with justifications.											
					However, the positions were not approved.											
					DDD will continue to explore other options and											
					find a solution to address the IT shortages. The											
					Healthcare System Management Office											
					(HSMO) Chief's position was cancelled after it											
					was opened. A Band B System Architecture											
					resource is now filling that role temporarily, in											
					addition to executing his own duties. The											
					reporting hierarchy of resources that											
				!				previously reported to the HSMO Chief is also								
					unclear.											
				10/31/2023 - With the departure of the BHA	Δ											
										INSPIRE Child and Adolescent Mental Health						
					Division (CAMHD), System Management Office											
					Manager, and CAMHD Inspire Project Lead, the											
					BHA has temporarily assigned many of its											
					responsibilities to the BHA Inspire Solutions											
					Architect. With these added responsibilities,											
					the Solution Architect could become											
		overwhelmed ar	overwhelmed and be unable to effectively			1										
			meet their project responsibilities. Current													
					projections are that this resource will likely											
					play both roles for at least 2-3 months. If BHA			1								
				1	is unable to address its resource shortage soon	1	- 1					I				

Id	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner
35	Lack of an ongoing cleanup process may lead	R3.33 work started, and the SI vendor was working with BHA	A cleaned-up Azure DevOps environment would enable the	DevOps cleanup is an ongoing process.	12/31/2023 - RSM and BHA are standardizing	Project Management	Preliminary	N/A	Open		8/2/2023	Gautam
	to clutter and reduce Azure DevOps	on the Statement of Work (SOW). BHA made the decision not	team and stakeholders to accurately track and report defects	The usage and configuration of the Azure	(on-going process) the tags used in Azure		Concern					Gulvady
	effectiveness in supporting the INSPIRE	to implement R3.33 and moved on to the next big phase of	and user stories, e.g., "n" number of post-production defects in	DevOps (AD) environment should be	DevOps and their usage, and are cleaning up							
	project management and tracking needs	work, starting with R4.1. Project team members will see some	Rm.n to be implemented in Rx.y, monitor and measure the	regularly monitored to prevent clutter and	the Azure DevOps environment. The tags will							
		references to R3.33 in Azure DevOps, which are incorrect and	team's effectiveness (trending as improvements, e.g., fewer	maintain its effectiveness in supporting	be used from R4.4 onwards. This should help							
		should be updated to R4.1, or an appropriate future release.	post-production bugs from previous releases), and to maintain	the INSPIRE project management and	optimize the workflow and make it more							
		There is still cleanup happening for items that are in the	tool's effectiveness in supporting project management needs.	tracking needs.	streamlined. IV&V will continue to monitor the							
		parking lot, which may state R3.33 until those items are		Configuration Review: Evaluate the Azure	usage of tags and the cleanup process.							
		assigned to a release.		DevOps (AD) configuration settings.								
				Ensure workflows, issue types, custom	11/30/2023 - RSM and BHA are standardizing							
				fields, and other settings are aligned with	(on-going process) the tags used in Azure							
				the project's needs and industry best	DevOps and their usage, and are cleaning up							
				practices.	the Azure DevOps environment. This should							
				Optimize Boards and Filters: Review the	help optimize the workflow and make it more							
				boards, filters, and tags in Azure DevOps	streamlined. IV&V will continue to monitor the							
				(AD) to ensure they accurately reflect the	usage of tags and the cleanup process.							
				status of work, and they are designed to								
				facilitate efficient tracking and	10/31/2023 - RSM and BHA are collaborating to							
				collaboration. This will help streamline and	standardize the tags used in Azure DevOps and							
				make it easier to find relevant	their usage, to clean up the Azure DevOps							
				information.	environment. This should help optimize the							
				User Training and Best Practices: Provide	workflow and make it more streamlined. IV&V							
				training to Azure DevOps (AD) users to	will monitor the cleanup process during the							
				ensure they are using the tool effectively.	next reporting period.							
				Share best practices for issue creation,								
				workflow management, and collaboration.	. 09/30/2023 - There are still some instances in							
				Establish a plan for regular maintenance of	f Azure DevOps (AD) where post-production							
				Azure DevOps (AD). Regularly review and	bugs are not tagged with the correct							
				clean up old issues, adjust workflows as	production release. For example, 33899, 33887,							
				needed, and ensure that configurations	33901, and 33935 have not been cleaned up							
				remain aligned with evolving needs.	(33731 is an example where the production							
					release is tagged correctly). Discussions are in							
					progress for the clean-up activities, and we will							
					undate the findings in the following month		1	1	1		1	l

Id	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner
36	Lack of a comprehensive project schedule could lead to missed tasks, project delays, and cost overruns	Project work is ongoing without a project schedule in place. Some current project work is considered Maintenance and Operations, but there is new work to be completed as well.	Project work is ongoing without a project schedule in place. Some current project work is considered Maintenance and Operations, but there is new work to be completed as well.	Establish a clear project schedule management plan that outlines roles, responsibilities, and accountability for schedule adherence. Create and baseline a comprehensive project schedule in MS project, Smartsheet, or a similar tool, containing tasks for both SI vendor and State, task dependencies, and resourcing. Implement regular schedule reviews and updates to ensure alignment with project objectives and milestones.	12/31/2023 - IV&V reviewed the vendor's final proposal regarding an approach to maintaining a complete project schedule, which doesn't appear to describe an alternate approach to maintaining a project schedule as requested by the RFP. Vendor has communicated they will provided a complete project schedule for the Analytics project. 11/30/2023 - The vendor has communicated that they provided their approach to maintaining a complete project schedule, in their proposal. IV&V reviewed the vendor's proposal, which doesn't appear to describe an alternate approach to maintaining a project schedule as requested by the RFP. 10/31/2023 - Per the IV&V review of the draft vendor contract draft, the vendor is required to maintain a complete project schedule using standard project management software, such as Microsoft Project, for the DD&I and M&O phases of the project. IV&V will discuss the next steps with BHA and provide recommendations in the next reporting period. 09/30/2023 - IV&V received the modifications to the original contract and is in the process of review to determine SI vendor contractual obligations. 08/31/2023 - Project work is ongoing without a project schedule in place. Some current project	Project Management	Issue	Medium	Open		8/29/2023	Gautam Gulavady
37	RSM is working without an executed contract since the expiration of the original contract	Delays in executing the RSM contract could potentially lead to a halt in ongoing work and increase the risk of the project falling behind the planned schedule.	SI vendor may have to stop work if the new contract is not executed in the near future. The vendor is not able to invoice for work performed since the expiration of their original contract.	Until an executed contract is available, a draft version of the contract should be made available to BHA and SI to manage ongoing work.	Junyl, ir considered Maintenance and 12/31/2023 - During the Steering committee meeting on 12/12/2023, DDD representative communicated that the signed Governor's memo has been received with a go-ahead to execute the contract. DOH received the contract signed by RSM on 12/25/2023. 11/30/2023 - No update. 10/31/2023 - BHA is awaiting the signed contract and certificate of insurance from RSM. The execution of the contract is in progress, and IV&V will update the finding in the next reporting period. 09/30/2023 - BHA provided the SI vendor draft contract to RSM, and IV&V. BHA is awaiting the insurance certificate to be provided by RSM. PCG is currently reviewing the SI vendor draft contract. 08/31/2023 - There is a risk that the SI vendor may have to stop work if the new contract is not executed in the near future. The vendor is not able to invoice for work performed since the expiration of their original contract.	Project Management	Issue	High	Open		8/29/2023	Gautam Gulavady

Id	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner
38	Public Consulting group (PCG) is working without an executed contract.	Delays in executing the PCG contract could potentially lead to a halt in ongoing work and a risk to monitoring of the project activities.	IV&V continues to observe and participate in project meetings, review project documentation, and submit monthly status reports.	Until an executed contract is available, a draft version of the contract should be made available to BHA and IV&V in order to manage on-going work.	12/31/2023 - During the Steering committee meeting on 12/12/2023, DDD representative communicated that the signed Governor's memo has been received with a go-ahead to execute the contract. 11/30/2023 - The final execution of the PCG contract is not yet complete. 10/31/2023 - PCG mailed a signed version of their contract, including the certificates of insurance, to the Hawaii DOH BHA DDD procurement and contracts division. The execution of the contract is in progress, and IV&V will update the finding in the next reporting period. 09/30/2023 - BHA provided the draft contract to IV&V. BHA has requested a certificate of insurance update from PCG. PCG is working with our insurer on the requested update, and it will be provided to BHA as soon as the update is complete.	Project Management	Issue	High	Open			Gautam Gulvady