

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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February 21, 2024

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-Second State Legislature State Capitol, Room 409 Honolulu, Hawaii 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 (Neb 21, 2024 12:27 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 January 1 – January 31, 2024

Submitted: February 15, 2024



Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, which the SI vendor and BHA are currently analyzing. R4.4 regression testing was done partly manually and automated.

Three (3) new findings were opened. Due to ongoing deployment processes and technical execution issues, the Project may continue to encounter defects and challenges. #39 was opened regarding several post-production bugs that were encountered in the Phase 4 release 4.4. #40 was opened regarding the lack of a formal process for development, review, and approval of test scenarios, test cases, and test results by relevant stakeholders. #41 was opened due to the need for separate, dedicated backlog review meetings.

As of the January reporting period, System Integrator (SI) vendor and IV&V contracts are fully executed.

The Fast Healthcare Interoperability Resources (FHIR) project is continuing to progress as planned. The SI vendor and Microsoft (MS) are currently working on the authentication work, converting the data, and testing. The team is on track to deploy in Release 4.5.

Nov	Dec	Jan	Category	IV&V Observations
G	G	Y	Sprint Planning	Product Backlog reviews are being performed during the design and/or weekly issues meetings, rather than in a structured, dedicated meeting. This category moved from green to yellow in the January 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 January reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.



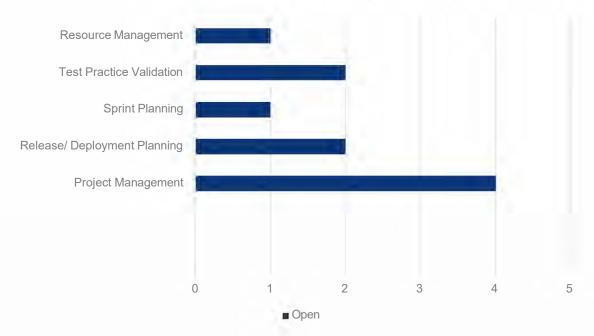
Nov	Dec	Jan	Category	IV&V Observations
Y	\	R	Test Practice Validation	Tricentis coaching sessions and coding of the automation testing is ongoing. R4.4 regression testing was done partly manually and automated. R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered. The status of completion of automated regression test scripts is now provided in the weekly program status report. IV&V will monitor and review the automated regression test results and determine whether the procedural concern has been addressed.
				During the January reporting period, a new finding was identified regarding inadequate state-side participation in the testing process and the lack of a formal process for the development, review, and approval of test scenarios, test cases, and test results by relevant stakeholders. This category moved from yellow to red in the January reporting period.
			Release /	R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, and the SI vendor and BHA are currently conducting a root cause analysis. IV&V will monitor the progress.
Y	Deployment Planning			During the January reporting period, a new finding was opened regarding several post-production bugs that were encountered in the Phase 4 release 4.4. Due to ongoing deployment processes and technical execution issues, the Project may continue to encounter defects and challenges. This category moved from yellow to red in the January reporting period.
G	G	G	OJT and KT Sessions	This category remains Green (low criticality) for the January reporting period with no active findings.
G	G	G	Targeted KT	This category remains Green (low criticality) for the January reporting period. IV&V will continue to monitor.

Nov	Dec	Jan	Category	IV&V Observations
G	O	©	Project Performance Metrics	There are no project performance metrics to report for this reporting period. IV&V will keep the criticality rating for this category a Green (low criticality) and will continue monitoring this category.
O	G	G	Organizational Maturity Assessment (OMA)	This category remains Green for the January reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.
				While Golden Record (GR) Mid-sprint deployment (MSD) was deployed on 12/21/2023, however there does not appear to be a common understanding among stakeholders around the GR functionality development and deployment.
R	R	R	Project Management	The Analytics project start has been delayed due to a delay in executing the Data Sharing Agreement between the Developmental Disabilities Division (DDD) and the MedQuest Division (MQD).
				The SI vendor and IV&V contracts have been fully executed.
R	R	R	Resource Management	As an update to Finding #34, There continue to be significant project resource shortages, as reflected in IAPDU #6.
			a.iagomont	



As of the January 2024 reporting period, two (2) findings were closed, and two (2) new findings were opened. The ten open findings are updated – five (5) High Issues, three Medium Issues, one (1) Medium Risk, and one (1) Preliminary Concern 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
31	Medium Risk: Lack of regular Sprint reviews and sprint demos will likely lead to misalignments between delivered work and stakeholder needs. Finding Update: The vendor to schedule demonstrations of new functionality/features as part of Sprint Reviews going forward.	M

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



Sprint Planning

#	Key Findings	Criticality Rating
	Medium Risk: Absence of separate dedicated product backlog review meetings can pose several challenges for a project team	
41	Finding Update: Currently, product backlog reviews are done during design meeting and/or weekly issues meetings. This can lead to, e.g., scattered focus, limited stakeholder engagement, difficulty in managing complexity and delayed decision making. The Product backlog review is a more structured meeting specifically dedicated to reviewing the entire backlog, making adjustments, and ensuring its readiness for upcoming sprints. The product backlog review is typically conducted as a separate meeting. The purpose of keeping it separate is to focus specifically on the backlog items, their priorities, and any necessary adjustments to ensure alignment with the product vision and stakeholder needs. It typically occurs periodically, e.g., once per sprint or at regular intervals, to ensure the backlog remains up-to-date, prioritized, and aligned with the project's goals.	M

Recommendations	Status
 IVV recommends scheduling separate dedicated product backlog review meetings (during sprints) where all relevant stakeholders are invited to review the product backlog and scheduled at the appropriate time(s) such that there is sufficient time to plan the design, development, and implementation (DDI) of the next release(s). 	New



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. Finding Update: Tricentis coaching sessions and coding of the automated testing are ongoing. R4.4 regression testing was done partly manually and automated. R4.4 was deployed on 01/25/2024, five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered. The status of completion of automated regression test scripts is now provided by BHA in the weekly program status report; however, estimated completion dates are not provided. IV&V will monitor and review the automated regression testing results and status reporting.	M
Reco	mmendations	Status
reg	ving board(s) in Azure DevOps or a document on SharePoint that provides information about the status of pression testing automation, to facilitate visibility and transparency to BHA project personnel and keholders.	Open
0-1	hedule priorities should be reevaluated by distributing the work according to the resource bandwidth. This	
will	ensure that the schedule is not impacted and that the work is done efficiently between regression testing d GR.	In progress
will and Pu	ensure that the schedule is not impacted and that the work is done efficiently between regression testing	In progress

Test Practice Validation

#	Key Findings	Criticality Rating
40	New High Issue: Improvements to the testing process are needed to ensure adequate state-side participation and comprehensive testing of new functionality prior to production deployment. Finding Update: When testing user stories 34564 and 34756 on 1/31/24, the test tasks did not reflect the real use cases to give stakeholders adequate confidence that the user story could be tested.	0
Recoi	nmendations	Status
	ntify stakeholders (output is stakeholder register) and develop a RACI matrix for testing.	Status Open



um Issue: Golden Record (GR) project delays are likely to delay the implementation of future features unctionality.	
ng Update: While GR Mid-sprint Deployment (MSD) was deployed on 12/21/2023, stakeholders is the project appear to have different understandings of where GR stands. IV&V sent an email on 1/2024 recommending stakeholders have a good common understanding of the GR functionality opment (including, related regression testing) and deployment, and the common understanding and are communicated to all stakeholders. The plan is to discuss and resolve the issue so that a common	M
opme	ent (including, related regression testing) and deployment, and the common understanding and

Recommendations	Status
Identify stakeholders (output is stakeholder register) and develop a RACI matrix for GR.	Open
 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



Recommendations	Status
 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
 GR working sessions should be resumed until there is clarity on remaining work to be completed, timeline for completion, etc. 	New



#	Key Findings	Criticality Rating
39	New High Issue: Due to on-going deployment processes and technical execution issues, the Project may continue to encounter defects and challenges, e.g., when releases are in production or in meeting projected timelines for production and non-production deployments. Finding Update: R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, which the SI vendor and BHA are currently analyzing. At least one of these bugs is deployment-related. IV&V will monitor the progress.	•

Recommendations	
 Ensure there are adequate and qualified resources to support the current deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components. 	New
As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	New
 Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with the consistency of 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. 	New
 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. 	New



Recommendations	Status
The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.	New
 IV&V recommends performing an RCA in collaboration with RSM for the continued concerns surrounding environment differences. 	New
• 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.	New
 Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed. 	New
Ensure an operational and fully functional test environment is available to effectively conduct end-to-end regression testing prior to deploying a release to production.	New
 Develop a plan to institutionalize the execution of "Smoke Testing" for promotions to non-production and production environments. This will help to ensure that all components needed to test have been properly deployed prior to the actual execution of test activities. 	Open



Project Management

#	Key Findings	Criticality Rating
14	High Issue: Due to multiple quality concerns, the Project may continue to face impactful system defects. Finding Update: R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, which the SI vendor and BHA are currently analyzing. IV&V will monitor the progress. Priority was changed from Medium to High.	0

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	Finding Update: IV&V to discuss the criteria for selecting upcoming release(s) for performance testing (as part of planning performance test) with BHA so planning can commence.	M

Recommendations	
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	Finding Update: RSM and BHA are standardizing (an ongoing process) the tags used in Azure DevOps and their usage and are cleaning up the Azure DevOps environment. E.g., the five (5) R4.4 post-production bugs are tagged "Post Go-Live Bug." IV&V will monitor the progress.	N/A

Recommendations	Status
 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
36	High Issue: Lack of a comprehensive project schedule could lead to missed tasks, project delays, and cost overruns. Finding Update: Delays in executing the Data Sharing Agreement (DSA) contract between the DDD and the MQD. The Department of Human Services (DHS) has delayed the commencement of the Analytics project. IV&V has yet to see a comprehensive project schedule for the Analytics module. The priority has changed from Medium to High.	•

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

#	Key Findings	Criticality Rating
37	Closed High Issue: RSM has been working without an executed contract since the expiration of the original contract Finding Update: The SI vendor contract has been fully executed. Finding closed.	0
Rec	ommendations	Status
	ntil an executed contract is available, a draft version of the contract should be made available to BHA and SI manage ongoing work.	Closed

#	Key Findings	Criticality Rating
38	Closed High Issue: Public Consulting Group (PCG) has been working without an executed contract. Finding Update: The PCG IV&V contract has been fully executed. Finding closed.	0
Rec	ommendations	Status
	ntil an executed contract is available, a draft version of the contract should be made available to BHA and SI manage ongoing work.	Closed



Resource Management

#	Key Findings	Criticality Rating
	High Issue: A shortage of Behavioral Health Administration (BHA) project resources could lead to reduced productivity and project delays.	
34	Finding Update: There continue to be significant project resource shortages, as reflected in IAPDU #6. This finding was changed from a Risk to an Issue.	0

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
BHA should explore the use of contractors to fill open project positions.	New

Project Performance Metrics

Metric	Description	IV&V Observations		IV&V Up	dates	
			Velocity	Metric Trend	ls:	
	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 	December – Velocity was estimated at 240 USPs for R4.4, 149 R4.4 USPs were promoted to production on 01/25/24.	R4.4	240 (+5 USPs for Maui Wildfire Communication)	149 (+5 USPs for Maui Wildfire Commu nication)	62%
	total target number of US/USP					

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) • USPs assigned to defects in a release vs. USPs assigned to planned US in a release	December - Velocity was estimated at 240 USPs (excluding 5 USPs for Maui Wildfire Communication) for R4.4, 149 R4.4. USPs were promoted to production (+5 USPs for Maui Wildfire Communication) on 01/25/24. 74% of the USPs were associated with planned user stories and requests. 26% of the total USPs were associated with defects encountered during the release effort or pulled from the backlog.	The defect percentage for January was 26% which is above 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.



Appendix A

Finding Criticality Ratings

Criticality Rating	Definition
0	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.
0	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 January 2024 reporting period:

- Daily Scrum Meetings
- 2. Daily Design Meetings
- 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
- 9. DOH BHA IT Solution Project Steering Committee

Eclipse IV&V® Base Standards and Checklists



Document

Artifacts reviewed during the December 2023 reporting period:

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



Appendix C

Project Trends

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





Solutions that Matter

ld	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Dat	e Owner	T
	H. Carrier and Car		III									4	1
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 document on SharePoint that		Test Practice	Issue	Medium	Open		12/31/2019	Gautam	•
	consistently performed, production	production specific to Integrated Support and Life Trajectory	necessary to prevent both defects and the deprecation of	provides information about the status of regression testing	automated testing are ongoing. R4.4 regression testing was done	Validation						Gulvady	
		functionality. DDD has informed IV&V that there are other	production functionality when a release is pushed live. When	automation, to facilitate visibility and transparency to BHA project	partly manually and automated. R4.4 was deployed on 01/25/2024,								
	existing functionality in the production	examples of functionality being deprecated after a release,	defects occur in production, the project should follow a	personnel and stakeholders.	five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1								
		some of which are still being investigated. As of this report,	defined and repeatable process for determining the root cause		TBD) have been encountered. The status of completion of								
		IV&V has not evaluated the project's root cause analysis	of the problem.	2. IV&V recommends reevaluating the schedule priorities by	automated regression test scripts is now provided in the weekly								
		(RCA) process used to determine why such functionality was		distributing the work according to the resource bandwidth. This will	program status report, however estimated completion dates are not								
		deprecated but will discuss further with BHA in January 2020.		ensure that the schedule is not impacted and that the work is done	provided. BHA has started reporting the progress and status of								
		2020.		efficiently between regression testing and Golden Record (GR).	automated regression testing. IV&V will monitor and review the automated regression testing results and status reporting.								
				3 Burner and annuals and distance former business in Annua Bar One and									
				3. Pursue and complete additional formal training in AzureDevOps and									
				Tricentis for test automation at the earliest possible juncture and	12/31/2023 - Tricentis coaching sessions and coding of the								
				complete efforts to automate the 2 primary regression test scripts.	automation is ongoing. Golden Record (GR) mid-sprint deployment								
				L	(MSD) went live on 12/21/2023 - GR MSD regression testing was not								
				IV&V recommends DDD and CAMHD to develop a common and	performed, end to end GR regression testing will be executed when								
				consistent approach across divisions for performing regression	the full GR functionality is implemented. The procedural concern is								
				testing.	yet to be addressed.								
1	1			L	14 (20 (2022 T) 11 11 11 11 11 11 11	1					1	1	
				Determine if current regression testing timeframes are adequate	11/30/2023 - Tricentis coaching sessions and coding of the								
				and if not, add more time to the pre-production regression test	automation is ongoing. R4.3 regression testing was completed in								
				efforts for all release deployments.	part manually and in part automated. R4.3 went live on 11/09/23 as								
				Updating the regression test scripts to ensure consistency with system									
				configuration.	regression coaching and testing progress. The procedural concern is								
				Modifying release schedules to allow for regression testing	yet to be addressed.								
				timeframes									
				Planning releases by functionality type to avoid unnecessary repetitive									
				work being performed in any given section of the solution.	automation is ongoing; R4.3 regression testing is being done partly								
				Performing regression testing after every release, or possibly every	manually and automated. IV&V will monitor and review the								
				other release, or potentially tying regression tests to full solution	automated regression testing results and determine whether the								
				upgrade releases. In addition, consider alternating the DDD and	procedural concern has been addressed.								
				CAMHD scripts every other release.									
				Modifying regression test scripts to start AFTER case creation, limiting									
				the time it takes to execute.	2023. The meeting was attended by personnel from CAMHD, DDD,								
14	Due to multiple quality concerns, the	System defects identified in August that affected claims	The identified quality issues have negatively affected DOH	Evaluate existing project staff skills and experience level to ensure	Evaluate existing project staff skills and experience level to ensure	Project Management	Issue	High	Open		9/30/2020	Gautam	
	project may continue to face impactful	were due to multi-faceted quality issues were individually	billing processes and DOH has stated these are the most	they meet BHA support requirements.	they meet BHA support requirements.							Gulvady	
	system defects.	addressed during this reporting period. IV&V notes that	impactful defects discovered to date.										
		there is one remaining defect still being evaluated that		Perform revenue neutrality fiscal balance testing on a quarterly basis	Perform revenue neutrality fiscal balance testing on a quarterly basis								
		affects a limited number of claims. Overall, the Project Team		to ensure revenues are as expected.	to ensure revenues are as expected.								
		has responded with a commitment to increase project											
		quality and is in the process of identifying improvements to		Assign dedicated resources to provide oversight of CAMHD Fiscal	Assign dedicated resources to provide oversight of CAMHD Fiscal								
		associated testing processes. These currently		Processes.	Processes.								
		include:Performing Revenue Neutrality Testing to ensure											
		expected revenue streams are largely unchanged from one		Monitor implemented improvements for effectiveness.	Monitor implemented improvements for effectiveness.								
		period to the next. Conducting System Integration Testing,		IV&V recommends performing an RCA in collaboration with RSM after	IV&V recommends performing an RCA in collaboration with RSM								
		User Acceptance Testing, Performance Testing, and		all future release deployments for continual quality improvement.	after all future release deployments for continual quality								
1		Regression Testing for Release 3.10. IV&V will continue to		1	improvement.			1			1	1	
1		monitor the testing efforts throughout the balance of		BHA and RSM to collaborate on the necessary revisions to the				1			1	1	
1	1	Release 3.10 and validate that enhanced quality processes,		submitted design deliverables to increase level of detail and quality.	BHA and RSM to collaborate on the necessary revisions to the			1			1	1	
		including industry standard regression testing, continue for		1	submitted design deliverables to increase level of detail and quality.			1			1	1	
1		Agile Release 3.11 forward. Finally, IV&V reviewed and		Perform typical project testing including System Integration, User	,			1			1	1	
1		provided feedback on the Help Desk and Semantic Layer		Acceptance, Performance, and Regression Testing.	Perform typical project testing including System Integration, User			1			1	1	
1		design documents per request and found that both		Dedicate sufficient time in between releases for BHA and RSM to	Acceptance, Performance, and Regression Testing.			1			1	1	
1		documents lacked design details.		execute/implement RCA correction actions to reduce the volume of	Dedicate sufficient time in between releases for BHA and RSM to			1			1	1	
	1	· •		unplanned rework.	execute/implement RCA correction actions to reduce the volume of			1			1	1	
	1				unplanned rework.			1			1	1	
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critical functionality. The GR is a crucial element that affects deployment (MSD) has been postponed multiple times. BHA appear to have different understandings of where GR stands. IV&V	
several user stories dependent on it. The deployment of the reviewing original requirements and evaluating if BHA needs 2. Recommend that BHA works with IV&V to assess GR critical issues sent an email on 01/31/2024 recommending stakeholders have a	
GR has been postponed to 08/19/2023, resulting in the to revisit the design. to assist in determining the path forward. good common understanding of the Golden Record (GR)	
transfer of approximately 150 story points into R4.2 and subsequently 150 story points into R4.2 and subsequence (including, related regression testing) and subsequence which releases to the consent deployment, and the common understanding and plans are	
subsequent releases. However, it is unclear which releases 3. Prior to implementation of the GR, needed updates to the consent id deployment, and the common understanding and plans are will include the GR-related user stories form should be confirmed and completed, policies/procedures for all communicated to all stakeholders. The plan is to discuss and resolve	
will include the diversal to unique continued and completed, policies procedures to an automatic and communicate or an assertance and communicate or an assertance are continued and all open feer solved. users should be confirmed, and all open feer solved. the issue, e.g., during resumed GR working session meetings, so a	
common statement of understanding can be provided to all	
4. Identify the objective of implementing GR, benefits, current gaps in stakeholders. This finding was changed from a Risk to an Issue.	
design, effort estimates, resource commitments, and impact of	
having/not having GR. 12/31/2023 - Golden Record (GR) Midsprint deployment (MSD)	
went live on 12/21/2023. RSM and BHA finalizing the GR readiness	
5. Analyze the impact on future functionalities and assess the checklist and SOPs in order for GR production data to be used.	
implications if this strategic change is needed. CAMHD and DDD to review the audit report currently available to	
6 CB undiger services should be recurred until these is distillute.	
6. GR working osesiones should sees some should be resumed until there is clarity on goen issues and attend meetings and will provide any remaining work to be completed, timeline for completion, etc. recommendations in the next reporting period.	
Tentianing work to be completed, unlease for completed, etc.	
11/30/2023 - GR production data use continues to be delayed. Mock	
migration was completed in early November 2023. Per the daily	1
scrum meetings and weekly issues meetings, BHA is testing the 12	1
GR items. Currently, RSM and BHA are finalizing the GR readiness	
checklist and SOPs. CAMHD and DDD to review the audit report	
currently available to determine if it meets BHA's needs. IV&V will	
continue to monitor the open issue and attend mention and will appropriate the continue to monitor the open issue in the continue and the cont	
provide any recommendations in the next reporting period.	
10/31/2003 - GR production data use continues to be delayed. Per	
10/31/2023 - GR production data use continues to be delayed. Per the weekly issues meeting and R4.3 Release Notes, it was discussed	
10/31/2023 - GR production data use continues to be delayed. Per the weekly issues meeting and RA. 3 Release Notes, it was discussed that LGM issues will be included RA. 3 The mock migration is	

ld	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified	Date Owne	er	
33		Performance issues have been identified that have the potential to impact the system's functionality, user experience, and the overall reliability of the system. These performance issues warrant immediate attention and resolution.	Developmental Disability Division (DDD) personnel are encountering performance issues with re-assigning cases, and opening the DDD – Contact Notes (Fiscal New – Complete) view. CAMHD has not reported performance issues.	Conduct load and performance testing for each release that has significant new features/functionality. Create a plan for comprehensive performance testing and address any performance bottlenecks. Have the benchmark assessments done annually and implementation of Azure App Insights for Power Platform.	01/31/2024 - N&V to discuss the criteria for selecting upcoming release(s) for performance testing (as part of planning performance testing (as part of planning performance test) with BHA so planning can commence. 12/31/2023 - IV&V to discuss performance test planning with BHA for upcoming release(s) with significant new features/functionality. 11/30/2023 - IV&V has discussed the next steps with BHA (see updated recommendation #1). 10/31/2023 - The IV&V review of the draft vendor contract indicates that the vendor is accountable for conducting load and 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 next encountarct 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 83.1 in the System Integration Test (SIT) environment. CAMHD provided 20 test scenarios that covered certain transactions. DDD personnel were not involved in this testing. The original solution delivery contract states that the Contractor shall address performance bottlenecks of its solutions. The terms of the new contract are currently being finalized, and the contract is not available for IV&V Review at this time. It is to be determined whether the Contractor is responsible for addressing performance issues under the new contract terms.	Project Management	Issue	Medium	Open		8/18/2023	Gauta Gulva		
34	project delays.	Key BHA project resources have reported constraints on how much time they can devote to the project. The departure of the Child and Adolescent Mental Health Division (CAMHO) System Management Office Manager and CAMHO Inspire Project Lead could further impact the project if DOH cannot acquire suitable resources. The lack of capacity of the DOH test script developer has slowed DOH's automated test script development.	If BHA is unable to fully staff the project and their existing resources continue to be constrained, the project could experience a reduction in productivity and project delays.	1. BHA should explore options for offloading project team members' daily responsibilities to other staff. 2. BHA should work quickly to backfill vacated project team member positions. 3. 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. 4. BHA should explore the use of contractors to fill open project positions. 5. Identify stakeholders and develop a RACI matrix for testing.	01/31/2024 - There continue to be significant project resource shortages, as reflected in IAPDU #6. This finding was changed from a Risk to an Issue. 12/31/2023 - During the Steering committee meeting on 12/12/2023, DDD representative communicated since the three positions were not included in the budget, DDD to submit a variance for an IT position. 11/30/2023 - DDD took proactive steps to address the IT shortages by creating three 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 uncleased 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 and be unable to effectively meet their project responsibilities. Current projections are that this resource will likely play both roles for at least 2-3 months. If BHA is unable to address its resource shortage soon, this could have a negative impact on the project, including slowed productivity and project delays.	Resource Management	Issue	High	Open		8/18/2023	Mich	aael Fors	

ld	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 to clutter and reduce Azure DevOps effectiveness in supporting the INSPIRE project management and tracking needs.	R3.33 work started, and the SI vendor was working with BHA on the Statement of Work (SOW). BHA made the decision not to implement R3.33 and moved on to the next big phase of work, starting with R4.1 Project team members will see some references to R3.33 in Actue DeVops, which are incorrect and should be updated to R4.1 or an appropriate future release. There is still cleanup happening for items that are in the parking lot, which may state R3.33 until those items are assigned to a release.	A cleaned-up Azure DevOps environment would enable the team and stakeholders to accurately track and report defects and user stories, e.g., "n" number of post-production defects in Rm. 10 be implemented in Rx.y, monitor and measure the team's effectiveness (trending as improvements, e.g., fewer post-production bugs from previous releases), and to maintain tool's effectiveness in supporting project management needs.	1. 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. 2. 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. 3. 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. 4. 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. S. 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.	Azure DevOps environment. E.g., the four (4) R4.4 post-production bugs are tagged "Post Go-Live Bug". IV&V will monitor the progress. 12/31/2023 - 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. 11/30/2023 - 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. 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. 10/31/2023 - RSM and BHA are collaborating to standardize the tags used in Azure DevOps and their usage, to clean up the Azure DevOps environment. This should help optimize the workflow and make it	Project Management		N/A	Open		8/2/2023	Gautam Gulvady	
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.	1. Establish a dear project schedule management plan that outlines roles, responsibilities, and accountability for schedule adherence. 2. 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. 3. Implement regular schedule reviews and updates to ensure alignment with project objectives and milestones.	0/131/2024 - Delays in executing the Data Sharing Agreement (DSA) contract between the DDD and the the MQD. The Department. of Human Services (DHS) has delayed the commencement of the Analytics project. I/8V has yet to see a comprehensive project schedule for the Analytics module. The priority has changed from Medium to High. 12/31/2023 - N&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 are requested by the RFP. The vendor has communicated they will provide a complete project schedule for the Analytics module. 11/30/2023 - The vendor has communicated that they provided their approach to maintaining a complete project schedule, in their proposal. I/8W reviewed the vendor's proposal, which doesn't appear to describe an alternate approach to maintaining a project schedule are requested by the RFP. 10/31/2023 - Per the I/8W 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 Db&l and M&O phases of the project. I/8W will discuss the next steps with BHA and provide recommendations in the next reporting period. 09/30/2023 - N&V received the modifications to the original contract and is in the process of review to determine SI vendor contractual obligations.	Project Management	Issue	High	Open		8/29/2023	Gautam Gulvady	

ld	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
39	Due to on-going deployment processes and technical execution issues, the Project may continue to encounter defects and challenges, e.g., when releases are in production or in meeting projected timelines for production and non-production deployments.	Several post-production bugs have been encountered in the Phase 4 release, R4.4.	Regarding the bug, "Human Services Research Institute (HSRI) flow is falling in production" (bug# 34886 https://dev.aure.com/ODHBH4/DOH930BHA920INSPIRE/_w orkitems/edit/34886), what is in development and deployed is vastly different from what was deployed to production. The root cause for these errors is currently being investigated. Repeatable documented release and deployment and resources experienced with deployments will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take place.	Ensure there are adequate and qualified resources to support the current deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some	01/31/2024 - R4.4 was deployed on 01/25/2024. Five (5) post- production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, which the SI vendor and BHA are currently analyzing. At least one of these bugs is deployment-related. IV&V will monitor the progress.	Release/Deployment Planning	Issue	High	Open		1/25/2024	Gautam Gulvady	
40	Improvements to the testing process are needed to ensure comprehensive testing of new functionality prior to production deployment.	There is a limited understanding of the testing processes and the roles and responsibilities of those involved in the process. There is no formal process for the development, review, and approval of test scenarios, test cases, and test results to ensure adequate participation and approval from state staff.	When testing user stories 34564 and 34756 on 1/31/24, the test tasks did not reflect the real use cases to give stakeholders adequate confidence that the user story could be tested. As a result, time was expended by testing resources, testing was inadequate, and a user story may have been deemed to meet functionality when it did not.	8. 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 1. Identify stakeholders (output is stakeholder register) and develop a RACI matrix for testing. 2. Review the overall testing process and implement any needed improvements identified.	01/31/2024 - When testing user stories 34564 and 34756 on 1/31/24, the test tasks did not reflect the real use cases to give stakeholders adequate confidence that the user story could be tested.	Test Practice Validation	Issue	High	Open		1/31/2024	Gautam Gulvady	
41	Absence of separate, dedicated product backlog review meetings can pose several challenges for a project team.	Currently, product backlog reviews are done during design meeting and/or weekly issues meetings. This can lead to, e.g., scattered focus, limited stakeholder engagement, difficulty in managing complexity and delayed decision making.	A product backlog review is an essential part of agile project management, particularly in Scrum. It's a collaborative meeting where the Scrum team, including the Product Owner, Scrum Master, and development team members, inspect and adapt the product backlog. The product backlog review is an Scrum important ceremony that helps keep the backlog relevant, up-to-date, and aligned with the project's goals and priorities. Here's a summary of what typically happens during a product backlog review: 1. inspecting Backlog Items: The team reviews the items on the product backlog. This involves discussing each item, understanding its priority, value, and acceptance criteria. 2. Ensuring Clarity: The team ensures that each backlog item is clear and well-understood. Any ambiguities or uncertainties are clarified at this stage. 3. Estimation: Estimation of backlog items may occur during the review. The team may use techniques like story points or relative sizing to estimate the effort required for each item. 4. Re-prioritization: Based on new insights, changes in requirements, or stakeholder feedback, the team may need to re-prioritize items in the backlog. 5. Removing or Adding Items: Items that are no longer relevant or necessary may be removed from the backlog. New items that emerge or are identified as important may be added. 6. Refinement: Backlog refinement may also occur during the review. This involves breaking down large items into smaller, more manageable ones, or adding more detail to items as needed. 7. Collaboration: The review is a collaborative effort involving the entire Scrum team. It's an opportunity for open discussion and sharing of ideas to ensure everyone is aligned on the goals and priorities.	invited to review the product backlog and scheduled at the appropriate time(s) such that there is sufficient time to plan the design, development, and implementation (DDI) of the next release(s).	01/31/2024 - Currently, product backlog reviews are done during design meetings and/or weekly issues meetings. The Product backlog review is a more structured meeting specifically dedicated to reviewing the entire backlog, making adjustments, and ensuring its readiness for upcoming sprints. The product backlog review is typically conducted as a separate meeting. The purpose of keeping it separate is to focus specifically on the backlog Items, their priorities, and any necessary adjustments to ensure alignment with the product vision and stakeholder needs. It typically occurs periodically, e.g., once per sprint or at regular intervals, to ensure the backlog remains up-to-date, prioritized, and aligned with the project's goals.	Sprint Planning	Risk	Medium	Open		1/26/2024	Gautam Gulvady	