

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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May 15, 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 (May 15, 2024 15:04 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 April 1 – April 30, 2024

Final Submitted: May 8, 2024



Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





BHA upgraded the Tricentis automated regression testing tool, Tosca 2021 version, to the 2023 version on 4/10/24. There were no deployment-related defects with R4.5. R4.6 regression testing will be a combination of automated and manual testing and is to be executed 5/17/24 – 5/29/24. Minimal progress has been made in the development and execution of automated regression test cases. DDD is planning to add an automated regression testing resource and is currently evaluating candidates. R4.6 go-live is scheduled for 5/30/24. IV&V will monitor the progress and quality of the R4.6 deployment.

The Two (2) high of three (3) post-production bugs (severity: 2 high, 1 TBD) identified in R4.4 have been fixed and are being tested in the development and test environments. Fixes to these bugs are planned for deployment to production in R4.6.

The Data Exchange Agreement (DEA) between DDD and MQD is being finalized. BHA plans to commence the Analytics project in June 2024, once the DEA is executed.

During the April reporting period, the Fast Healthcare Interoperability Resources (FHIR) version 4 profile was approved by Apple Health.

Feb	Mar	Apr	Category	IV&V Observations
Y	(X)	Y	Sprint Planning	As of the April reporting period, BHA plans to populate the stakeholder registry and the RACI Matrix to have adequate statewide participation and engagement. BHA is expected to schedule the product backlog review meetings after the stakeholder registry and RACI Matrix are finalized.
				Per discussions regarding new functionality/features in R4.6, the SI vendor will demonstrate the Maui Wildfire communication functionality to stakeholders in May 2024.
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 April reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.



Feb	Mar	Apr	Category	IV&V Observations	
Y	Y	Y	Test Practice reg	On 4/10/24, BHA upgraded the Tricentis automated regression testing tool, Tosca 2021 version, to the 2023 version. R4.6 regression testing will be a combination of automated and manual testing and is planned for execution from 5/17/24 – 5/29/24. Minimal progress has been made in the development and execution of automated regression test cases. IV&V will continue to monitor and review automated regression testing results and status reporting.	
				DDD is planning to add an automated regression testing resource and is currently evaluating candidates.	
				As noted in the previous reporting period, CAMHD is populating the stakeholder registry and the RACI matrix to address adequate statewide participation and engagement in the testing process.	
			Release /	R4.6 go-live is scheduled for 5/30/24. IV&V will monitor the progress and quality of the R4.6 deployment. There were no deployment-related defects with R4.5. The priority is updated from "medium" to "low".	
R	Y	Y	Deployment Planning	A new finding was opened in April regarding the process to update existing documents and folders on DDD's SharePoint site. The execution time for an earlier executed intensive process was unacceptable, and there is new functionality based on the same design and process.	
G OJT and KT Sessions This category remains Green (low criticality) for tactive findings.		This category remains Green (low criticality) for the April reporting period with no active findings.			
G	G	G	Targeted KT	This category remains Green (low criticality) for the April reporting period. IV&V will continue to monitor.	

Feb	Mar	Apr	Category	IV&V Observations			
G	G	G	Project Performance Metrics	rmance keep the criticality rating for this category a Green (low criticality) and will continue			
G	Organizational Maturity Assessment (OMA) This category remains Green for the April reporting period. There are no out findings in this category, and IV&V will continue to monitor.		This category remains Green for the April reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.				
				R4.6 regression testing will be a combination of automated and manual testing and is to be executed 5/17/24 – 5/29/24. The R4.6 soft-code freeze is on 5/01/24, the hard-code freeze is on 5/06/24, and the go-live is planned for 5/30/24. As of 4/30/24, there are no R4.5 post-production defects. Of the three (3) R4.4 post-production bugs (severity: 2 high, 1 TBD) identified, the two (2) high-severity bugs have been fixed and are being tested in the development and test environments. The bug fixes will be deployed to production in R4.6. IV&V will monitor the progress and quality of R4.6.			
R	Y	Y	Project Management	BHA is continuing to have discussions with Microsoft regarding the scope, schedule, and estimate of the effort and cost to execute the performance test, leveraging the existing Health Information Systems Office (HISO) contract with Microsoft. As of the April reporting period, the plan is to execute the performance test in June 2024.			
				A new preliminary concern was opened in April as BHA discovered delays in the posting of administrative claims as far back as three years, negatively affecting reimbursements and potentially delaying the submission of IAPDU-7, which could impact funding.			
				The Data Exchange Agreement (DEA) between DDD and MQD is being finalized. BHA plans to commence the Analytics project in June 2024 once the DEA is executed.			

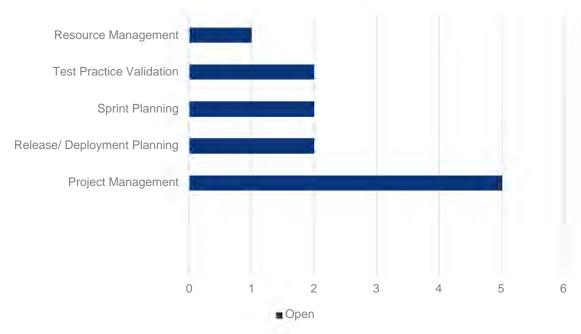


Feb	Mar	Apr	Category	IV&V Observations		
R	Y	Y	Resource Management	As an update to Finding #34, DDD is planning to add an automated regression testing resource and is currently evaluating candidates. In addition, DDD plans to request one (1) business analyst position.		



As of the April 2024 reporting period, ten open findings were updated, and two findings were opened – eight (8) Medium Issues, two (2) Medium Risks, one (1) Low Issue, and one (1) Preliminary Concern spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, Project Management, and Resource Management assessment areas are currently open.

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: Per discussions regarding new functionality/features in R4.6, the SI vendor will demonstrate the Maui Wildfire communication functionality to stakeholders in May 2024.	M

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



Sprint Planning (cont'd)

Recommendations		
 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.	In Progress	
 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 (cont'd)

#	Key Findings	Criticality Rating
41	Medium Risk: Absence of separate dedicated product backlog review meetings can pose several challenges for a project team Finding Update: BHA plans to populate the stakeholder registry and the RACI matrix to have adequate statewide participation and engagement in product backlog review meetings. Once the stakeholder registry and the RACI matrix are finalized, BHA to schedule product backlog review meetings.	M
Reco	mmendations	Status
or	parate dedicated product backlog review meetings (during sprints) would allow clarifying any ambiguities uncertainties, re-prioritization, estimation and refinement of backlog items. This would allow the project arm to avoid situations where decisions about including items Mid-sprint would have to be taken.	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. Finding Update: R4.6 regression testing will be a combination of automated and manual testing and is to be executed 5/17/24 – 5/29/24. Minimal progress has been made in developing and executing automated regression test cases. BHA upgraded the Tricentis automated regression testing tool, Tosca 2021 version to the 2023 version on 4/10/24. DDD is planning to add an automated regression testing resource and is currently evaluating candidates. IV&V will continue to monitor and review automated regression testing results and status reporting.	
Reco	mmendations	Status
reg	ving board(s) in Azure DevOps or a document on SharePoint that provides information about the status of ression testing automation, to facilitate visibility and transparency to BHA project personnel and keholders.	In Progress
will	nedule priorities should be reevaluated by distributing the work according to the resource bandwidth. This 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 Azure DevOps and Tricentis for test automation at the liest possible juncture and complete efforts to automate the 2 primary regression test scripts.	In progress



Test Practice Validation (cont'd)

Recommendations	Status
Determine if current regression testing timeframes are adequate, and if not, add more time to the pre- production regression test efforts for all release deployments.	In Progress

Test Practice Validation (cont'd)

#	Key Findings	Criticality Rating
40	Medium Issue: Improvements to the testing process are needed to ensure adequate CAMHD participation and comprehensive testing of functionality prior to production deployment. Finding Update: As noted in the March reporting period, CAMHD is populating the stakeholder registry and the RACI matrix to address adequate statewide participation and engagement in the testing process.	
Reco	Recommendations	
• Ide	ntify stakeholders (output is stakeholder register) and develop a RACI matrix for testing.	In Progress
• Re	eview the overall testing process and implement any needed improvements identified.	Open



Release / Deployment Planning

#	Key Findings	Criticality Rating
43	New Medium Issue: Execution time for the process for updating DDD SharePoint folders was unacceptable. New Finding Update: Finding identified by IV&V.	M

Recommendations	Status
 IV&V recommends DDD puts on hold any development utilizing Power Automate for the performance issue encountered in production (marked "TBD" in finding #14 related to "SharePoint Bulk Flows still running") and related user stores, e.g., "Changes to DDD folders", defects. 	New
IV&V recommends evaluating other feasible options, e.g., leveraging SharePoint tools and best practices.	New
A project issue should be opened to identify and manage the resolution of this issue.	New

Release / Deployment Planning (cont'd)

#	Key Findings	Criticality Rating
39	Low Issue: Due to ongoing 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: There were no deployment related defects with R4.5. R4.6 go-live is scheduled for 5/30/24. IV&V will monitor the progress and quality of R4.6 deployment. The priority is updated from "medium" to "low".	0

Recommendations	Status
 The Project should consider automating deployments for resource safaster time to market, improved collaboration and reliability, scalability. 	
 Ensure there are adequate and qualified resources to support the curequire the support from RSM resources to provide assistance and known complex deployment components. 	. , , , , , , , , , , , , , , , , , , ,
As appropriate, consult with RSM on best practices that BHA could experience.	employ to support deployment. Open
 Request the assistance of the RSM Solution Architect in reviewing a consistency of configurations across environments, ensuring that the testing ALL functions of any given release without the need for using 	test environment is capable of Open



Release / Deployment Planning (cont'd)

Recommendations	Status
 Request the assistance of the RSM Solution Architect in the review of deployment scripts as a double-check for accuracy and completeness prior to commencing deployment activities. 	Open
The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.	Open
 IV&V recommends performing an RCA in collaboration with RSM for the continued concerns surrounding environment differences. 	Open
• 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.	Open
 Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed. 	Open
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.	Open
 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
35	Closed 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. Finding Update: Standardizing (ongoing process) tags used in Azure DevOps and cleaning up the Azure DevOps environment is an ongoing process. Post-production bugs are tagged "Post Go-Live Bug" with	N/A
	tags for the appropriate release(s). IV&V has closed this preliminary concern.	

Recommendations	Status
 DevOps cleanup is an ongoing process. The usage and configuration of the Azure DevOps (AD) environs should be regularly monitored to prevent clutter and maintain its effectiveness in supporting the INSPIRE project management and tracking needs. 	ment Closed
 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. 	Closed
 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. 	n. Closed
 User Training and Best Practices: Provide training to Azure DevOps (AD) users to ensure they are using tool effectively. Share best practices for issue creation, workflow management, and collaboration. 	the Closed
 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. 	s, Closed



#	Key Findings	Criticality Rating
44	New Preliminary Concern: Delays in the posting of administrative claims are negatively affecting reimbursements.	N/A
	New Finding Update: Finding identified by IV&V.	
Rec	and an election of	
Nec	ommendations ————————————————————————————————————	Status
	HA should continue research of this issue with MedQuest and PCG to identify any needed corrections.	New New

Project Management (cont'd)

• Monitor implemented IV&V recommendations for effectiveness.

#	Key Findings	Criticality Rating
14	Medium Issue: Due to multiple quality concerns, the Project may continue to face impactful system defects. Finding Update: R4.6 regression testing will be a combination of automated and manual testing and is to be executed 5/17/24 – 5/29/24. R4.6 Soft code freeze is on 5/01/24, hard code freeze is on 5/06/24 and go-live is planned for 5/30/24. There are no R4.5 post-production defects as of 4/30/24. Two (2) (2 high) of three (3) R4.4 post-production bugs (severity: 2 high, 1 TBD) have been fixed and are being tested (in the development and test environments) and fixes will be deployed to production in R4.6. IV&V will monitor the progress and quality of R4.6.	M
Reco	mmendations	Status
• Eva	aluate existing project staff skills and experience level to ensure they meet BHA support requirements.	In Progress
	rform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as pected.	In Progress
• As	sign dedicated resources to provide oversight and monitoring of CAMHD Fiscal Processes	Open



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: BHA is continuing discussions with Microsoft regarding scope, schedule, and estimate of the effort and cost to execute the performance test, leveraging the existing Health Information Systems Office (HISO) contract with Microsoft. The plan is to execute the next performance test in June 2024.	M

Recommendations	Status
• The last performance test was executed in June 2023 for phase 3 releases (R3.x). ~800+ new User Story Points (USPs) have been developed since the last performance test execution. IV&V recommends BHA execute a performance test during the development of R4.6 (planned completion 5/20/2024), identifying test cases and scenarios that include both DDD and CAMHD functionality, transactions/functionality that are performance intensive, e.g., calculator functionality.	Open
Conduct load and performance testing for each release that has significant new features/functionality, e.g., calculator-related transactions.	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
• Execute test scripts that measure the run-time for execution of long-running transactions. E.g., calculator functionality/transactions and monitoring results over time.	New



#	Key Findings	Criticality Rating
36	 Medium Issue: Lack of a comprehensive project schedule could lead to missed tasks, project delays, and cost overruns. Finding Update: The Data Exchange Agreement (DEA) between DDD and MQD is being finalized. BHA plans to commence the Analytics project in June 2024 once the DEA is executed. 	M

R	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 for Phase 4 and future project phases 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
42	Medium Issue: Ineffective governance and communication among stakeholders can significantly impact a project in several ways, e.g., stakeholder disengagement, conflict and tension, misalignment of objectives, increased risks, unclear roles and responsibilities, and quality issues. An example on this project is the development and implementation of Golden Record/Master Data Management (MDM). The lack of effective governance and communication among stakeholders can result in project delays, budget overruns, and decreased quality. It's essential for project managers and stakeholders to prioritize clear communication and establish robust governance structures to ensure project success.	M
	Finding update: CAMHD and DDD continued to collaborate on the security assessments. As noted in the March reporting period, Division heads from three (3) divisions, the Developmental Disabilities Division (DDD), Child & Adolescent Mental Health Division (CAMHD), and Alcohol & Drug Abuse Division (ADAD), met in March 2024 to discuss and resolve Golden Record-related issues. DDD has added a Policy & Procedures-related agenda item to the monthly DOH BHA IT Solution Project Steering Committee meetings.	
Rec	ommendations	Status
	reate a Governance Structure: Implement a governance structure that defines decision-making processes,	Open

Recommendations	Status
 Create a Governance Structure: Implement a governance structure that defines decision-making processes, escalation procedures, and accountability mechanisms. Clarify how decisions will be made, who has authority, and how issues will be resolved. 	Open
 Develop a Stakeholder Registry, RACI chart, and Stakeholder Engagement Plan: Identify key stakeholders and develop a plan to engage them throughout the project lifecycle. Tailor communication strategies to address the needs and preferences of different stakeholders, ensuring their active involvement and support. 	Open
 Clearly define Roles and Responsibilities: clearly outlining the roles and responsibilities of each stakeholder involved in the project, would ensure that everyone understands their duties and how they contribute to the project's success. 	Open



Recommendations	Status
 Encourage Open Communication and Feedback: Foster a culture of open communication and feedback where stakeholders feel comfortable sharing their thoughts, concerns, and suggestions. Encourage constructive dialogue and actively seek input to improve decision-making and problem-solving. Keep stakeholders informed about project progress, milestones, and key developments through regular updates and progress reports. Highlight achievements, challenges, and any changes to the project plan or scope. 	Open
 Resolve Conflicts Promptly: Address conflicts and disagreements among stakeholders promptly and professionally. Encourage dialogue, active listening, and compromise to find mutually acceptable solutions that support project goals. 	Open
 Manage Expectations: Manage stakeholders' expectations by setting realistic timelines, budgets, and deliverables. Foster a culture of transparency about project constraints and risks and proactively communicate any changes or deviations from the plan. 	Open
 Evaluate and Adapt: Continuously evaluate the effectiveness of governance and communication processes and adjust as needed. Solicit stakeholders' feedback to identify areas for improvement and continuously refine your approach. 	Open



Resource Management

#	Key Findings	Criticality Rating
34	Medium Issue: A shortage of Behavioral Health Administration (BHA) project resources could lead to reduced productivity and project delays. Finding Update: DDD is planning to add an automated regression testing resource and is currently evaluating candidates. DDD plans to request one (1) business analyst position.	M

Recommendations	Status
BHA should explore options for offloading project team members' daily responsibilities to other staff.	In Progress
BHA should work quickly to backfill vacated project team member positions.	In progress
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.	In progress
BHA should explore the use of contractors to fill open project positions.	In progress

Project Performance Metrics

Metric	Description	IV&V Observations	IV&V Updates
Velocity	 Review and validate the velocity data as reported by the project Verify the project is on pace to hit the total target number of US/USP 	April – There were no deployments in the month of April 2024.	Velocity Metric Trends: N/A

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 	April – There were no deployments in the month of April 2024.	N/A

Note*: this defect percentage does not include defects under warranty that are assigned zero (0) User Story Points.





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 April 2024 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. BHA (CAMHD & DDD) IV&V Joint Meeting
- 8. IV&V Draft IV&V Status Review Meeting with DOH
- IV&V Draft IV&V Status Review Meeting with RSM and DOH
- 10. DOH BHA IT Solution Project Steering Committee
- SI vendor, CAMHD, and DDD meeting to discuss what is already in Tricentis for DDD

Eclipse IV&V® Base Standards and Checklists



Artifacts reviewed during the March 2024 reporting period:

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



Appendix C Project Trends

Process Area	July	August	September	October	November	December	January	February	March	April
User Story Validation										
Test Practice Validation										
Sprint Planning										
Release / Deployment Planning										
OJT and KT Sessions										
Targeted KT										
Project Performance Metrics										
Organizational Maturity Metrics										
General Project Management										
Resource Management										
Total Open Findings	5	11	11	11	10	10	11	12	11	12
Issue - high	0	2	2	2	2	2	5	12	0	0
Issue - medium	3	5	5	5	4	4	4	12	8	8
Issue - low	0	0	0	0	0	0	0	12	0	1
Risk - high	0	0	0	0	0	1	0	12	0	0
Risk - medium	1	2	2	2	2	1	1	12	2	2
Risk - low	0	0	0	0	0	0	0	12	0	0
Preliminary Concern	1	2	2	2	2	2	1	12	1	1



Solutions that Matter

ID Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
As a result of regression testing not being consistently performed, production releases are breaking and/or deprecating existing functionality in the production environment.	functionality. DDD has informed IV&V that there are other	Thorough vetting and validation of regression test cases are necessary to prevent both defects and the deprecation of production functionality when a release is pushed live. When defects occur in production, the project should follow a defined and repeatable process for determining the root cause of the problem.	1. Having board(s) in Azure DevOps or a document or SharePoint that provides information about the status of regression testing automation, to facilitate visibility and transparency to BHA project personnel and stakeholders. 2. IV&V recommends reevaluating the schedule priorities 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 and Golden Record (GR). 3. Pursue and complete additional formal training in AzureDevOps and Tricentis for test automation at the earliest possible juncture and complete efforts to automate the 2 primary regression test scripts. IV&V recommends DDD and CAMHD to develop a common and consistent approach across divisions for performing regression testing. 4. Determine if current regression testing timeframes are adequate and if not, add more time to the preproduction regression test efforts for all release deployments. Updating the regression test scripts to ensure consistency with system configuration. Modifying release schedules to allow for regression testing timeframes Planning releases by functionality type to avoid	combination of automated and manual testing and is to be executed \$5/17/24 - 5/29/24. Minimal progress has been made in developing and executing automated regression test cases. BHA upgraded the Tricentis automated regression testing tool, Tosca 2021 version to the 2023 version on 4/10/24. DDD is planning to thire an automated regression testing resource and is currently evaluating candidates. IV&V will continue to monitor and review automated regression testing resource and is currently evaluating candidates. IV&V will continue to monitor and review automated regression testing results and status reporting. 03/31/2024 - R4.5 regression testing was a combination of automated and manual testing and was completed successfully. The Tricentis regression testing tool coaching sessions have been completed. IV&V will continue to monitor and review automated regression testing results and status reporting. As an additional R4.4 post-production bug has been identified, the efficacy of regression testing should be evaluated. Minimal progress has been made in developing and executing automated regression test cases. BHA is planning the upgrade of the Tricentis automated regression testing tool, Tosca 2021 version to the 2023 version. R4.6 regression testing will also be a combination of manual and automated regression testing. O/2/29/2024 - R4.5 development is ongoing. The soft code freeze was on 2/29/2024, and go-live	Test Practice Validation	Issue	Medium	Öpen		12/31/2019	Gautam Gulvady	
14 Due to multiple quality concerns, the project may continue to face impactful system defects.	System defects identified in August that affected claims were due to multi-faceted quality issues were individually addresse during this reporting period. IV&V notes that there is one remaining defect still being evaluated that affects a limited number of claims. Overall, the Project Team has responded with a commitment to increase project quality and is in the process. These currently include: Performing Revenue Neutrality Testing to ensure expected revenue streams are largely unchanged from one period to the next. Conducting System Integration Testing, User Acceptance Testing, Performance Testing, and Regression Testing for Release 3.10 IN&V will continue to monitor the testing efforts throughout the balance of Release 3.10 and validate that enhanced qualit processes, including industry standard regression testing, continue for Agile Release 3.11 forward. Finally, IV&V reviewed and provided feedback on the Help Desk and Semantic Layer design documents per request and found that both documents lacked design details.	d processes and DOH has stated these are the most impactful defects discovered to date.	unnecessary repetitive work being performed in any siven section of the solution. Evaluate existing project staff skills and experience level to ensure they meet BHA support requirements. Perform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected. Assign dedicated resources to provide oversight of CAMHD Fiscal Processes. Monitor implemented improvements for effectiveness. IV&V recommends performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement. BHA and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase level of detail and quality. Perform typical project testing including System Integration, User Acceptance, Performance, and Regression Testing. Dedicate sufficient time in between releases for BHA and RSM to execute/implement RCA correction actions to reduce the volume of unplanned rework.	contemplated a mid-sorier deployment (MSD) (04/30/2024 - R4.6 regression testing will be a combination of automated and manual testing and is to be executed 5/17/24 – 5/29/24. R4.6 Soft code freeze is on 5/01/24, hard code freeze is on 5/06/24 and go-live is planned for 5/30/24. Two (2) (2 high) of three (3) R4.4 post-production bugs (severity: 2 high, 1 TBD) have been fixed and are being tested (in the development and test environments) and fixes will be deployed to production in R4.6. IV&V will monitor the progress and quality of R4.6. 03/31/2024 - R4.5 regression testing was completed successfully. R4.5 was deployed to Production on 3/28/24, and smoke testing in production is planned for completion on 4/1/24 Three (3) (2 critical, 1 medium, 1 TBD) have been fixed and tested (in the development and test environments) and fixes deployed to production in R4.5. IV&V will monitor the progress and quality of R4.5. 02/29/2024 - Three (3) of four (4) post-	Project Management	Issue	Medium	Open		9/30/2020	Gautam Gulvady	

Lack of regular Sprint reviews and sprint demos will likely lead to misalignments between delivered work and stakeholder needs. Sprint reviews, demos help to bring alignment across the team and stakeholders and incurporate their feedback. Currently, the project has joint testing involving the SI and BHA personnel. Per Agile Best practices, IV&V persone and incorporate their feedback. Currently, the project has joint testing involving the SI and BHA personnel. Per Agile Best practices, IV&V believes having 5 print demos / reviews during a sprint with the development team, scrum master, and and stakeholders in Gluding Sprint reviews and demos in future releases functionality floating print reviews and demos in future releases functionality floating print reviews and demos in future releases functionality floating print reviews and demos in future releases functionality willdiffre common the sases the completion of user stories, review demonstrate the Maul Wildfire common displayed the product owner, stakeholders in May 20. displayed the sases the completion of user stories, review demonstrate the Maul Wildfire common displayed the product owner, stakeholders in May 20. displayed the sases the completion of user stories, review demonstrate the Maul Wildfire common displayed the product owner, stakeholders in May 20. displayed the sases the completion of user stories, review demonstrate the Maul Wildfire common displayed the product owner, stakeholders and stakeholders. It is a great opportunity for the print review what's being delivered and receive feedback. This way, the team can wail as help on the product owner, stakeholders and stakeholders in May 20. displayed the product owner, stakeholders as sess the completion of user stories, review demonstrate the Maul Wildfire common displayed the product owner, stakeholders and stakeholders in May 20. displayed the product owner, stakeholders and stakeholders and stakeholders in May 20. displayed the product owner, stakeholders and stakeholders and stakeholders and	vendor will nunication 0024. ew uuld	Risk	Medium	Open				
demos will likely lead to misalignments between delivered work and stakeholders are discussed the meds. Sprint reviews/demos help to bring alignment across the team and stakeholders and incorporate their feedback. They are essential building blocks for better software and teams. Sprint demos /reviews showcase the main functionality to stakeholders and incorporate their feedback. Currently, the project has joint testing involving the SI and BHA personnel. Per Agile Best practices, IV&V believes having Sprint demos/reviews during a sprint helps to bring alignment across the team and stakeholders and incorporate their feedback. This way, the team can validate design prior to testing, steer the team in the right direction, and help to avoid big mistakes. This would also allow the testing team to focus solely on testing, which is beneficial. Sprint reviews/demos help to bring alignment across the team do stakeholders and incorporate their feedback. This way, the team can gauge responses and make observations earlier during a sprint with the development team, scrum master, and including Sprint reviews and demos in future releases functionality/features in R4.6, the SI we demonstrate the Maui Wildifre communication of user stories, review from the product owner, stakeholders to assess the completion of user stories, review asses the completion of user stories, review almost assess the completion of user stories, review and temos in future releases functionality/features in R4.6, the SI we assess the completion of user stories, review almost assess the completion of user stories, review assess the completion of user stories, review assess the completion of user stories, review assess the completion of use	vendor will nunication 0024. ew uuld	N.SK	Iviedidiii	Open		7/26/2023	Gautam	
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the testing team to focus solely on testing, which is beneficial. accomplishments is also an essential part of these demos. Moreover, they are invaluable in steering the team in the right								
Moreover, they are invaluable in steering the team in the right								
direction and avoiding big mistakes. It's interesting to note that 1. Strengthen the collaboration between 02/29/2024 - Discussions are on-going.	g about							
the Sprint demo could bring to light bugs such as R4.1 bug 34055 development teams and stakeholders by enhancing R4.5 and R4.6 new functionality/feature								
on the Portal, where the checkbox is on the left of the text. communication channels. Regularly validate project would be demonstrated. Accordingly, t								
objectives and ensure that sprint deliverables remain vendor to schedule demonstrations of								
consistent with stakeholder requirements. functionality/features as part of Sprint								
Consider With State Control of the C	. nevicus:							
2. Foster active participation from users and 01/31/2024 - The vendor to schedule		- 1		1				
stakeholders during both Sprint Reviews and Sprint demonstrations of new functionality/files		- 1		1				
Demos. Emphasize the value of firerative feedback to a part of Sprink Reviews going forward		- 1		1				
guide development and ensure that user needs are		- 1		1				
guide development and ensure that user needs are consistently met. 12/31/2023 - The vendor and BHA hav	vea	- 1		1				
Considering met. 2/23/2/23 "the relinor and part and product backlog review process in plac	I	- 1		1				
3. Establish standardized communication protocols will review the product backlog (living a								
3. Expansins restricted Communication products backing review profit product backing review for both Sprint Demos. Focusing elosies the product backing review profit product backing review profit product backing review profit								
to dour spilin keeving and spilin feerings. Encourage loose we die product usaking terwely teams to deliver concise and informative progress and will monitor future Spirit reviews.								
reports, including achievements, challenges, and	"							
future plans. This will enhance stakeholder 11/30/2023 - The vendor and BHA have	WA 3							
inture plans. In with entire statements of the plans and project transparency. engagement and project transparency. product backlog review process in plac								
engagement and project transparency. Product backing review products in the product backing review will observe the product backing review.								
4. Create a stakeholder register to identify all and will monitor future Sprint reviews.								
*. Cleace a stakeholders. It is their identification, assessment, changed from a Preliminary Concern to								
statemouers. List time intentincation, assessment, and classification. Review the register, resultant to the reliminary content to and classification. Review the register, resultant to the deliminary content to	.0 a							
The Golden Record (GR) project continues to Due to issues with the Golden Record (GR) solution, the GR implementation has been delayed several times. As a result, 1 I.dentify stakeholders (output) is stakeholder (O3/31/2024 - CAMHD and DDD Stakeho	holders Release/Deploymen	nt Issue	Medium	Closed	3/31/2024	7/10/2023	Gautam	
be delayed. project may experience delays and a shift in focus from critical GR is impacting the INSPIRE release schedule. E.g., mid-sprint register) and develop a RACI matrix for the project to continued to meet in March 2024 to cla						1	Gulvady	
functionality. The GR is a crucial element that affects several deployment (MSD) has been postponed multiple times. BHA ensure adequate communication and stakeholder open questions regarding future GR	· ·							
user stories dependent on it. The deployment of the GR has reviewing original requirements and evaluating if BHA needs to participation. development and potential 3rd-party to	tool							
been postponed to 08/19/2023, resulting in the transfer of revisit the design.								
approximately 150 story points into R4.2 and subsequent 2. Identify the objective of implementing GR implemented in R4.5, and no further GI	GR							
releases. However, it is unclear which releases will include the production data use, benefits, current gaps in design, development will be conducted. Findin								
GR-related user stories effort estimates, resource commitments, and impact								
of having/not having GR. 02/29/2024 - CAMHD and DDD Stakeho	nolders to							
meet in March 2024 to clarify open que								
3. Prior to implementation of the GR, needed e.g., when GR development would be		- 1		1				
updates to the consent form a confirmed confir		- 1	1	1	1	1		
and complete of policies/process for all uses and complete and grant for a large and grant for a larg		- 1		1				
should be confirmed, and all open defects should be understand about be understanding about the scope and pla		- 1		1				
resolved. completion of GR development. GR has								
	is a scope,							
schedule, and cost impact.		- 1		1				
A Analyze the impact on the future functionalities	1	- 1		1				
4. Analyze the impact on the future functionalities and assess the implications if this criterion hanne is 01/31/2004 a While Golden Berond ICR	P) mid-		1	1	1	1		
and assess the implications if this strategic change is 01/31/2024 - While Golden Record (GR			1	1				
and assess the implications if this strategic change is needed. and assess the implications if this strategic change is needed. and assess the implications if this strategic change is print Deployment (MSD) was deployed.	red on			1				
and assess the implications if this strategic change is print Deployment (MSD) was deployed survival (MSD) was deployed with the survival (MSD) was deposed wit	ed on project			1				
and assess the implications if this strategic change is 01/31/2024 - While Golden Record (GR needed. sprint Deployment (MSD) was deployed 12/21/2023, stakeholders across the pr 5. GR working sessions should be resumed until there appared to have different understanding	ed on project ngs of			I	1	1	1	
and assess the implications if this strategic change is needed. sprint Deployment (M5D) was deployed 12/21/2023, stakeholders across the polyment (M5D) was depolyed 12/21/2023, stakeholders	red on project ngs of on							
and assess the implications if this strategic change is needed. sprint Deployment (MSD) was deployed to 21/21/2023, stakeholders across the pr 5. GR working sessions should be resumed until there is clarity on remaining work to be completed, where GR stands. IV&V sent an email of timeline for completion, etc. 01/31/2024 - While Golden Record (GR sprint Deployment (MSD) was deposed to 21/21/2023, stakeholders across the pr starding working sessions should be resumed until there is clarity on remaining work to be completed, where GR stands. IV&V sent an email of timeline for completion, etc.	ed on project ngs of on ders have a							
and assess the implications if this strategic change is needed. sprint Deployment (M5D) was deployed 12/21/2023, stakeholders across of persons of the pers	red on project ngs of on ders have a Golden							
and assess the implications if this strategic change is an eaded. strategic change is strategic change is strategic change is charty on remaining work to be completed, where strategic change is clarity on remaining work to be completed, where strategic change is clarity on remaining work to be completed, where strategic change is clarity on remaining work to be completed, where strategic change is accordance in the complete is clarity on remaining work to be completed, where strategic change is an expect to the complete is clarity on remaining work to be completed, where strategic change is an expect to the complete in the strategic change is an expect to the strategic change is a strategic change in the strategic change is an expect to the strategic change	ed on project ngs of on deters have a Golden nt							
and assess the implications if this strategic change is needed. sprint Deployment (MSD) was deployed by 12/21/2023, stakeholders across the properties and the properties are stopped to t	red on project ngs of on Jers have a Golden nt and							
and assess the implications if this strategic change is needed. sprint Deployment (M5D) was deployed 12/21/2023, stakeholders over present pr	red on project ngs of on Jers have a Golden nt and							
and assess the implications if this strategic change is needed. 10/131/2024. While Golden Record (RG print Deployment (MSD) was deployed to the print Deployment (MSD) was deployment, and the common understanding of the GR print Deployment, and the common understanding of the GR print Deployment, and the common understanding of the GR print Deployment, and the print Deployment (MSD) was deployed to the print	red on project nggs of on project nggs of on lers have a solden nt and standing							
and assess the implications if this strategic change is needed. sprint Deployment (MSD) was deployed by 12/12/1023, stakeholders across they received by 12/21/2023, stakeholders across	ed on project nggs of on graps of on Gress have a Golden nt and standing and resolve							
and assess the implications if this strategic change is needed. sprint Deployment (M5D) was deployed by the properties of the properties	red on project nggs of on deter have a Solden nt and standing and resolve rkking							
and assess the implications if this strategic change is needed. Included an included an included and included an included and included	red on project nggs of on lers have a Solden nt and standing nd resolve priking ment of							
and assess the implications if this strategic change is needed. sprint Deployment (M5D) was deployee to 12/21/2023, stakeholders across the properties of the completed of the completed of timeline for completion, etc. See Record (GR) functionality development (including, related regression testing) a deployment, and the common understanding of the GR Record (GR) functionality development (including, related regression testing) a deployment, and the common understanding of the GR Record (GR) functionality development (including, related regression testing) and plans are communicated to all stakeholders. The plan is to discuss and the issue, e.g., during resumed GR worl	red on project nggs of on grapes of on delens have a Solden nt and standing nd resolve orking ment of							

ID	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
													<u> </u>
33	Performance bottlenecks with the INSPIRE	Performance issues have been identified that have the	Developmental Disability Division (DDD) personnel are	The last performance test was executed in June	04/30/2024 - BHA is continuing discussions with	Project Management	Issue	Medium	Open		8/18/2023	Gautam	
	production environment may result in low	potential to impact the system's functionality, user experience,		2023 for phase 3 releases (R3.x). ~800+ new User	Microsoft regarding scope, schedule, and							Gulvady	
	productivity and poor user experience.	and the overall reliability of the system. These performance	opening the DDD – Contact Notes (Fiscal View – Complete) view.		estimate of the effort and cost to execute the								
		issues warrant immediate attention and resolution.	CAMHD has not reported performance issues.	last performance test execution. IV&V recommends									
				BHA execute a performance test during the	Information Systems Office (HISO) contract with								
				development of R4.6 (planned completion	Microsoft. The plan is to excute the next								
				5/20/2024), identifying test cases and scenarios that	performance test in June 2024.			1					
				include both DDD and CAMHD functionality,				1					
				transactions/functionality that are performance	03/31/2024 - To address the IV&V								
				intensive, e.g., calculator functionality.	recommendation #1, BHA and the SI vendor are								
					having discussions to define scope, schedule,								
				2. Conduct load and performance testing for each	and to estimate the effort and cost to conduct a			1					
				release that has significant new	performance test prior to R4.6 implementation			1					
				features/functionality, e.g., calculator-related	on 5/30/24. The plan is to execute the test in			1					
				transactions.	May 2024. BHA plans to leverage the existing			1					
					Health Information Systems Office (HISO)								
				3. Create a plan for comprehensive performance	contract with Microsoft to conduct the								
				testing and address any performance bottlenecks.	performance test.								
				lesting and address any performance sociences.	performance test.			1					
				4. Have the benchmark assessments done annually	02/29/2024 - Per the IV&V recommendation					1		1	
				and implementation of Azure App Insights for Power		1	1			I	1	1	
				Platform.	CAMHD and DDD will have discussions about	1	1			I	1	1	
				riacionii.			I					1	
				l	the scope and schedule for the next	1	1			I	1	1	
				5. Execute test scripts that measure the run-time for	регтогmance test.	1	1			I	1	1	
				execution of long-running transactions. E.g.,				1					
				calculator functionality/transactions and monitoring				1					
				results over time.	selecting upcoming release(s) for performance			1					
					testing (as part of planning performance test)			1					
					with BHA so planning can commence. A new			1					
					recommendation has been added.								
					12/31/2023 - IV&V to discuss performance test			1					
					planning with BHA for upcoming release(s) with		1	1	1				
					significant new features/functionality								
4	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	BHA should explore options for offloading project	o4/30/2024 - DDD is planning to add an	Resource Management	Issue	Medium	Open		8/18/2023	Michael Fors	
1		Key BHA project resources have reported constraints on how much time they can devote to the project. The departure of	If BHA is unable to fully staff the project and their existing resources continue to be constrained, the project could	BHA should explore options for offloading project team members' daily responsibilities to other staff.	significant new features/functionality	Resource Management	Issue	Medium	Open		8/18/2023	Michael Fors	
1					o4/30/2024 - DDD is planning to add an	Resource Management	Issue	Medium	Open		8/18/2023	Michael Fors	
1	Administration (BHA) project resources could	much time they can devote to the project. The departure of	resources continue to be constrained, the project could		significant new features/functionality 04/30/2024 - DDD is planning to add an automated regression testing resource and is currently evaluting candidates. DDD plans to	Resource Management	: Issue	Medium	Open		8/18/2023	Michael Fors	
•	Administration (BHA) project resources could lead to reduced productivity and project	much time they can devote to the project. The departure of the Child and Adolescent Mental Health Division (CAMHD)	resources continue to be constrained, the project could	team members' daily responsibilities to other staff.	significant new features/functionality 04/30/2024 - DDD is planning to add an automated regression testing resource and is currently evaluting candidates. DDD plans to	Resource Management	Issue	Medium	Open		8/18/2023	Michael Fors	
	Administration (BHA) project resources could lead to reduced productivity and project	much time they can devote to the project. The departure of the Child and Adolescent Mental Health Division (CAMHD) System Management Office Manager and CAMHD Inspire Project Lead could further impact the project if DOH cannot	resources continue to be constrained, the project could experience a reduction in productivity and project delays.	team members' daily responsibilities to other staff. 2. BHA should work quickly to backfill vacated project	significant new features (functionality 04/30/2024 - DDD is planning to add an 04/30/2024 - DDD is planning to add an automated regression testing resource and is currently evaluting candidates. DDD plans to request one (1) business analyst position.	Resource Management	: Issue	Medium	Open		8/18/2023	Michael Fors	
	Administration (BHA) project resources could lead to reduced productivity and project	much time they can devote to the project. The departure of the Child and Adolescent Mental Health Division (CAMHD) System Management Office Manager and CAMHD Inspire Project Lead could further impact the project if DOH cannot acquire suitable resources. The lack of capacity of the DOH test	resources continue to be constrained, the project could experience a reduction in productivity and project delays.	team members' daily responsibilities to other staff. 2. BHA should work quickly to backfill vacated project team member positions.	cionificant new features (functionality) 04/30/2024 - DDD is planning to add an automated regression testing resource and is currently evaluting candidates. DDD plans to request one (1) business analyst position. 03/31/2024 - No change since the February	Resource Management	: Issue	Medium	Open		8/18/2023	Michael Fors	
	Administration (BHA) project resources could lead to reduced productivity and project	much time they can devote to the project. The departure of the Child and Adolescent Mental Health Division (CAMHD) System Management Office Manager and CAMHD 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	resources continue to be constrained, the project could experience a reduction in productivity and project delays.	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	cionificant new features (functionality) 04/30/2024 - DDD is planning to add an automated regression testing resource and is currently evaluting candidates. DDD plans to request one (1) business analyst position. 03/31/2024 - No change since the February	Resource Management	: Issue	Medium	Open		8/18/2023	Michael Fors	
•	Administration (BHA) project resources could lead to reduced productivity and project	much time they can devote to the project. The departure of the Child and Adolescent Mental Health Division (CAMHD) System Management Office Manager and CAMHD Inspire Project Lead could further impact the project if DOH cannot acquire suitable resources. The lack of capacity of the DOH test	resources continue to be constrained, the project could experience a reduction in productivity and project delays.	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,	significant new features (functionality 04/30/2024 - DDD is planning to add an automated regression testing resource and is currently evaluting candidates. DDD plans to request one (1) business analyst position. 03/31/2024 - No change since the February reporting period.	Resource Management	Issue	Medium	Open		8/18/2023	Michael Fors	
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4	Administration (BHA) project resources could lead to reduced productivity and project	much time they can devote to the project. The departure of the Child and Adolescent Mental Health Division (CAMHD) System Management Office Manager and CAMHD 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	resources continue to be constrained, the project could experience a reduction in productivity and project delays.	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	significant new features (functionality old/30/204 - DDD is planning to add an automated regression testing resource and is currently evaluting candidates. DDD plans to request one (1) business analyst position. 03/31/2024 - No change since the February reporting period. 02/29/2024 - DDD plans to request one (1) business analyst position to address resource shortages. 01/31/2024 - There continue to be significant project resource shortages, as per the resources documented in APDU #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		Issue	Medium	Open		8/18/2023	Michael Fors	
	Administration (BHA) project resources could lead to reduced productivity and project	much time they can devote to the project. The departure of the Child and Adolescent Mental Health Division (CAMHD) System Management Office Manager and CAMHD 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	resources continue to be constrained, the project could experience a reduction in productivity and project delays.	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	sionificant new features (functionality old/30/2024 - DDD is planning to add an automated regression testing resource and is currently evaluting candidates. DDD plans to request one (1) business analyst position. 03/31/2024 - No change since the February reporting period. 02/29/2024 - DDD plans to request one (1) business analyst position to address resource shortages. 01/31/2024 - There continue to be significant project resource shortages, as per the resources documented in APDU #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 reso		Issue	Medium	Open		8/18/2023	Michael Fors	
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35		R3.33 work started, and the SI vendor was working with BHA	A cleaned-up Azure DevOps environment would enable the team			Project Management		N/A	Closed	4/30/2024	8/2/2023	Gautam	-
	to clutter and reduce Azure DevOps effectiveness in supporting the INSPIRE project management and tracking needs.	references to R3.33 in Azure DevOps, which are incorrect and should be updated to R4.1 or an appropriate future release.	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	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.	tags used in Azure DevOps and cleaning up the Azure DevOps environment is an ongoing process. Post-production bugs are tagged "Post Go-Live Bug" with tags for the appropriate release(s). Iv&V has closed this preliminary		Concern					Gulvady	
		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.	effectiveness in supporting project management needs.	 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. 	tags used in Azure DevOps and cleaning up the								
				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	tagged "Post Go-Live Bug" with tags for the								
				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. 5. Establish a plan for regular maintenance of Azure DevOps (AD). Regularly review and clean up old issues, adjust workflows as needed, and ensure that	01/31/2024 - 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. E.g., the four								
				configurations remain aligned with evolving needs.	(4) RA.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								
26	Lack of a comprehensive project schedule	Project work is anguing without a project schedule in place	Project work is aggoing without a project schedule in place	1 Establish a clear project schodule management	the Azure NevOns environment. The tags will be	Broject Management	Issue	Modium	Onon		9/20/2022	Gautam	
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.	04/30/2024 - The Data Exchange Agreement (DEA) between DDD and MQD is being finalized. BHA plans ito commence the Analytics project	Project Management	Issue	Medium	Open		8/29/2023	Gautam Gulvady	
			, , , , , , , , , , , , , , , , , , , ,	Create and baseline a comprehensive project schedule in MS project, Smartsheet, or a similar tool,	in June 2024 once the DEA is executed.								
				containing tasks for both SI vendor and State, task dependencies, and resourcing.	(DEA) between DDD and MQD is yet to be executed. The Analytics project will commence once the DEA is executed.								
				 Implement regular schedule reviews and updates to ensure alignment with project objectives and milestones. 	02/29/2024 - The project currently utilizes a high-level Gantt chart, which shows planned release dates but does not provide visibility to								
					task completion, tasks behind schedule, resource allocation, etc. The Data Sharing Agreement (DSA) between DDD and MQD is yet to be executed. The Analytics project will								
					commence once the DSA is executed. A schedule for the analytics project will be developed once the start date is known. IV&V recommends also developing a schedule for Phase 4.								
					01/31/2024 - Delays in executing the Data Sharing Agreement (DSA) contract between DDD and 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.								
					12/31/2023 - IV&V reviewed the vendor's final								

ID I	inding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
		Several post-production bugs have been encountered in the		The Project should consider automating	04/30/2024 - There were no deployment	Release/Deployment	Issue	Low	Open		1/25/2024	Gautam	
	echnical execution issues, the Project may	Phase 4 release, R4.4.	flow is failing in production" (bug# 34886	deployments for resource savings, increased	related defects with R4.5. R4.6 go-live is	Planning						Gulvady	
	ontinue to encounter defects and		https://dev.azure.com/DOHBHA/DOH%20BHA%20INSPIRE/_wor		scheduled for 5/30/24. IV&V will monitor the							l I	
	hallenges, e.g., when releases are in		kitems/edit/34886), what is in development and deployed is	improved collaboration and reliability, scalability,	progress and quality of R4.6 deployment. The								
	production or in meeting projected timelines		vastly different from what was deployed to production.	version control integration, and rollback capability.	priority is updated from "medium" to "low".							l I	
ı	or production and non-production												
- 0	deployments.		The root cause for these errors is currently being investigated.	Ensure there are adequate and qualified resources	03/31/2024 - Three (3) (severity: 2 critical, 1							l I	
				to support the current deployment processes. This	medium) of six (6) R4.4 post-production bugs							l I	
			Repeatable documented release and deployment and resources	may require the support from RSM resources to	have been fixed and tested (in development								
			experienced with deployments will help ensure that mistakes are	provide assistance and knowledge transfer for some	and test environments), and the fixes were							l I	
			minimized and that functionality is not mistakenly deprecated	of the more complex deployment components.	deployed to production with R4.5. Four (4) of								
			when deployments take place.		these bugs are deployment-related. R4.5 was							l I	
				3. As appropriate, consult with RSM on best practices	deployed to Production on 3/28/24, and smoke							l I	
				that BHA could employ to support deployment.	testing in Production is scheduled for 4/1/24.							l I	
					IV&V will monitor the progress and quality of							l I	
- 1				4. Request the assistance of the RSM Solution	the R4.5 deployment.								
- 1				Architect in reviewing and correcting issues									
	l			associated with the consistency of configurations	02/29/2024 - Three (3) of Four (4) post-	1	I		1	l			
	l			across environments, ensuring that the test	production bugs (severity: 2 critical, 1 high, 1			1		l			
	l			environment is capable of testing ALL functions of	medium) have been fixed and tested (in the	1	I		1	l			
- 1				any given release without the need for using multiple									
				test environments.	be deployed to production with R4.5. One (1)								
				test environments.	post-production bug is yet to be created in								
- 1				5. Request the assistance of the RSM Solution									
- 1					DevOps. IV&V will monitor the progress and								
- 1				Architect in review of deployment scripts as a double								l I	
				check for accuracy and completeness prior to	deployment on 2/29/2024. Three (3) of these								
- 1				commencing deployment activities.	are deployment-related, and two (2) of the							l I	
- 1				C. The Best of Terror has black each or all office	deployment-related bugs were critical. IV&V								
- 1				6. The Project Team should consider evaluating	will monitor the progress and quality of the								
- 1				potential changes to improve/enhance existing	R4.5 deployment once R4.5 is deployed in							l I	
				processes and communications to address current	March 2024.							l I	
				release/deployment shortfalls.									
- 1					01/31/2024 - R4.4 was deployed on								
-	and the state of t	The section is a first section of the section of th	14th - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	7 IV&V recommends performing an RCA in	01/25/2024 Five (5) post-production bugs 04/30/2024 - No new update.	Test Practice	Issue	Medium	Open		1/31/2024	Gautam	
	mprovements to the testing process are	There is a limited understanding of the testing processes and		1. Identify stakeholders (output is stakeholder	04/30/2024 - No new update.	Validation	issue	iviedium	Open			Gulvady	
	needed to ensure comprehensive testing of	the roles and responsibilities of those involved in the process.	tasks did not reflect the real use cases to give stakeholders	register) and develop a RACI matrix for testing.	03/34/3034 CANAUD :	validation						Guivady	
	new functionality prior to production	There is no formal process for the development, review, and	adequate confidence that the user story could be tested. As a		03/31/2024 - CAMHD is populating the								
ľ		approval of test scenarios, test cases, and test results to	result, time was expended by testing resources, testing was	Review the overall testing process and implement	stakeholder registry and the RACI matrix to							l I	
- 1		ensure adequate participation and approval from state staff.	inadequate, and a user story may have been deemed to meet	any needed improvements identified.	address adequate statewide participation and								
- 1			functionality when it did not.		engagement in the testing process.								
												l I	
- 1					02/29/2024 - CAMHD is developing a								
- 1	l				Stakeholder registry and RACI matrix to address			1		l			
	l				adequate statewide participation in the testing	1	I		1	l			
	l				process.	1	I		1	l			
	l				02/29/2024 - CAMHD is developing a	1	I		1	l			
	l				Stakeholder registry and RACI matrix to address	1	I		1	l			
- 1	l				adequate statewide participation in the testing			1		l			
	l				process.	1	I		1	l			
- 1	l				ľ	1	I		1	l			
	l				01/31/2024 - When testing user stories 34564	1	I		1	l			
- 1					and 34756 on 1/31/24, the test tasks did not	1	I		1	l		1	
	l				reflect the real use cases to give stakeholders	1	I		1	l			
	l				adequate confidence that the user story could	1	I		1	l			
			1			I	I	1	I	l	1	1 1	
- 1	l l												
					be tested.								

ID	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	П
							<i>*</i>						
- 1	Absence of separate dedicated product	Currently, product backlog reviews are done during design	A product backlog review is an essential part of agile project	Separate dedicated product backlog review meetings		Sprint Planning	Risk	Medium	Open		1/26/2024	Gautam	E.
	backlog review meetings can pose several challenges for a project team.	scattered focus, limited stakeholder engagement, difficulty in	management, particularly in Scrum. It's a collaborative meeting where the Scrum team, including the Product Owner, Scrum	(during sprints) would allow clarifying any ambiguities or uncertainties, re-prioritization,	stakeholder registry and the RACI matrix to have adequate statewide participation and							Gulvady	
- 1	challenges for a project team.	managing complexity, and delayed decision making.	Master, and development team members, inspect and adapt the		engagement in product backlog review								
- 1		Inlanaging complexity, and delayed decision making.	product backlog.	would allow the project team to avoid situations	meetings. Once the stakeholder registry and the								
ļ			product backlog.	where decisions about including items mid-sprint	RACI matrix are finalized, BHA to schedule								
- /			The product backlog review is an important Scrum ceremony	would have to be taken.	product backlog review meetings.								
- /			that helps keep the backlog relevant, up-to-date, and aligned	Would have to be taken.	product bucklog review meetings.								
- /			with the project's goals and priorities. Here's a summary of what	IVV recommends scheduling separate dedicated	03/31/2024 - BHA to schedule separate product								
- /			typically happens during a product backlog review:	product backlog review meetings (during sprints)	backlog review meetings.								
- 1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	where all relevant stakeholders are invited to review									
- 1			1. Inspecting Backlog Items: The team reviews the items on the	the product backlog and scheduled at the	02/29/2024 - Product backlog reviews are still								
- 1			product backlog. This involves discussing each item,	appropriate time(s) such that there is sufficient time	done during design meetings and/or weekly								
- 1			understanding its priority, value, and acceptance criteria.	to plan the design, development, and	issues meetings. The project team								
- 1			2. Ensuring Clarity: The team ensures that each backlog item is	implementation (DDI) of the next release(s).	contemplated a mid-sprint deployment (MSD)								
- 1			clear and well-understood. Any ambiguities or uncertainties are		for three (3) items (AER, Maui Wildfire SMS, and								
- 1			clarified at this stage.		ISP modifications) - AER was deployed on								
- /			3. Estimation: Estimation of backlog items may occur during the		2/29/2024, and the remaining two will be								
- 1			review. The team may use techniques like story points or relative		deployed in R4.5. BHA to schedule separate								
- 1			sizing to estimate the effort required for each item.		dedicated product backlog meetings for scoping								
- 1			4. Re-prioritization: Based on new insights, changes in		R4.6 to help avoid the need for including items								
- 1			requirements, or stakeholder feedback, the team may need to re	1	mid-sprint.					1			
- 1			prioritize items in the backlog.							1			
- /			5. Removing or Adding Items: Items that are no longer relevant		01/31/2024 - Currently, product backlog		1	1		1	1		
- 1			or necessary may be removed from the backlog. New items that		reviews are done during design meetings								
- 1			emerge or are identified as important may be added.		and/or weekly issues meetings. The Product								
- 1			6. Refinement: Backlog refinement may also occur during the		backlog review is a more structured meeting							,	
- 1			review. This involves breaking down large items into smaller,		specifically dedicated to reviewing the entire								
- 1			more manageable ones, or adding more detail to items as		backlog, making adjustments, and ensuring its								
- /			needed.		readiness for upcoming sprints. The product								
- /			7. Collaboration: The review is a collaborative effort involving the		backlog review is typically conducted as a								
- 1			entire Scrum team. It's an opportunity for open discussion and		separate meeting. The purpose of keeping it								
- /			sharing of ideas to ensure everyone is aligned on the goals and		separate is to focus specifically on the backlog								
2	Effective governance and communication is	Lack of effective governance and communication among	Ineffective governance and communication among stakeholders	IVV recommends considering the following	04/30/2024 - CAMHD and DDD continued to	Project Management	Issue	Medium	Open		2/29/2024	Gautam	
	lacking on the project.	stakeholders can have significant negative impacts on a project	can significantly impact a project in several ways, e.g.,	recommendations to establish effective governance	collaborate on the security assessments.							Gulvady	
- 1		in several ways.	stakeholder disengagement, misunderstandings, conflict and	and communication among stakeholders:									
- 1			tension, misalignment of objectives, increased risks, unclear		03/31/2023 - Division heads from three (3)								
- /			roles and responsibilities, and quality issues. An example on this	Create a Governance Structure: Implement a	divisions, the Developmental Disabilities								
- 1			project is the development and implementation of Golden	governance structure that defines decision-making	Division (DDD), Child & Adolescent Mental								
- /			Record/Master Data Management (MDM).	processes, escalation procedures, and accountability	Health Division (CAMHD), and Alcohol & Drug								
- /				mechanisms. Clarify how decisions will be made, who	Abuse Division (ADAD), met in March 2024 to								
- 1			The lack of effective governance and communication among	has authority, and how issues will be resolved.	discuss and resolve Golden Record-related								
- /			stakeholders can result in project delays, budget overruns, and		issues. DDD has added a Policy & Procedures-								
- 1			decreased quality. It's essential for project managers and	Develop a Stakeholder Registry, RACI chart, and	related agenda item to the monthly DOH BHA IT								
- 1			stakeholders to prioritize clear communication and establish	Stakeholder Engagement Plan: Identify key	Solution Project Steering Committee meetings.								
- 1			robust governance structures to ensure project success.	stakeholders and develop a plan to engage them									
- 1				throughout the project lifecycle. Tailor	02/29/2024 - Finding identified by IV&V.								
- 1				communication strategies to address the needs and									
- 1				preferences of different stakeholders, ensuring their									
- 1				active involvement and support.									
- 1													
- /				Clearly define Roles and Responsibilities: clearly outlining the roles and responsibilities of each						1			
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							1	1	1				
١				stakeholder involved in the project, would ensure									
				stakeholder involved in the project, would ensure that everyone understands their duties and how they									
				stakeholder involved in the project, would ensure									
				stakeholder involved in the project, would ensure that everyone understands their duties and how they contribute to the project's success.									
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				stakeholder involved in the project, would ensure that everyone understands their duties and how they contribute to the project's success. 4. Encourage Open Communication and Feedback: Foster a culture of open communication and feedback where stakeholders feel comfortable sharing their thoughts, concerns, and suggestions. Encourage constructive dialogue and actively seek input to improve decision-making and problem-									
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ID	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	ſī.
43	DDD SharePoint folders was unacceptable.	The existing DDD SharePoint documents and folders update process is intensive and the execution time was unacceptable: this process took 11 calendar days to execute in production with R4.4.	SharePoint documents and folders. The SI vendor recommended against doing this intensive process. However, no feasible alternative solutions were provided and this process was implemented. BHA has the flexibility to refine and alter their SharePoint directory structure. As a result, per the SI vendor, the process does not pick up continuously evolving permutations of folder structures in Production, nor can the execution time be estimated or benchmarked. Per discussions between the SI	IV&V recommends DDD puts on hold any development utilizing PowerAutomate for the performance issue encountered in production (marked "TBD" in finding #14 related to "SharePoint Bulk Flows still running"), related user stores, e.g., "Changes to DDD folders", and defects. IV&V recommends evaluating other feasible options, e.g., leveraging SharePoint tools and best practices. A project issue should be opened to identify and manage the resolution of this issue.	04/30/2024 - Finding identified by IV&V.	Release/Deployment Planning	Issue	Medium	Open			Gautam Gulvady	
44		BHA has discovered delays in the posting of administrative claims as far back as three years.	These claims with delayed posting are eligible for a 90%/10% match from CMS. There are delayed payments identified as far back as three years, which caused claims to be filed in later years. These claims draw from the raw budget in the year they are filed. This affects reimbursements and could potentially delay the submission of IAPDU-7, which could impact funding.	BHA should continue research of this issue with MedQuest and PCG to identify any needed corrections. BHA to present any needed corrections to CMS.	4/30/2024 - Finding identified by IV&V.	Project Management	Preliminary Concern	N/A	Open			Gautam Gulvady	