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December 16, 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 Nadine K. Nakamura 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 Nakamura, 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,

Christine M. Sakuda 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

November 1 – November 30, 2024

Final Submitted: December 11, 2024



Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends
- D Acronyms and Definitions





The project is steadily advancing in its efforts to enhance the functionality of the INSPIRE system. The project continues to perform regression testing manually due to ongoing issues with BHA's automated testing scripts. IV&V recommends BHA continue making efforts to resolve automated testing script issues in order to realize the benefits of automated testing, which may include reducing human error, more consistent outcomes, better coverage, and reduced production defects.

IV&V remains concerned regarding the occurrence of defects in the production environment (otherwise known as "leakage"), which typically indicates issues with the unit, system integration, and UAT testing. The project has chosen to prioritize the development of new functionalities by allowing many lower-priority defects to remain in production.

The deployment of Fast Healthcare Interoperability Resources (FHIR) has been postponed, with the project now targeting a January 2025 deployment. IV&V continues to be concerned that FHIR development scope creep may slow the implementation of other system features, potentially impacting system effectiveness, diminished user productivity, and user frustration.

IV&V remains concerned that limited BHA resources could create project delays and reduce system quality. IV&V continues to recommend that the project streamline communications between BHA divisions in order to increase the productivity of project decision-making, coordination, and other project activities.

The project is taking steps to improve their overall system and defect tracking governance. BHA leadership remains concerned about the inconsistent logging of defects by users and the Help Desk. BHA has yet to develop a documented governance process for restarting production systems. The lack of good system governance processes can lead to confusion, reduced quality assurance, and inefficient development processes.

BHA is currently satisfied with the system integrator's (SI) adherence to the allocated budget for developing high-effort features, also known as 'Big Rock' items. However, BHA remains concerned about Med-QUEST's long-standing issues with tracking federal financial participation and claims submissions which persist despite repeated efforts to resolve and could impact project funding. The project aims to strengthen their overall project governance by providing well-defined processes.



Sep	Oct	Nov	Category	IV&V Observations
Y	Y	Y	Sprint Planning	Sprint reviews and demos are currently conducted on an ad hoc basis, without regular meetings. Demos are informal, often relying on quick conversations or screen sharing, which can result in inconsistent feedback and delayed issue identification. The IV&V team recommends that the System Integrator (SI) vendor establish regular sprint reviews and demos to ensure structured feedback, enhance visibility into completed features, and improve team coordination. The DDD team will hold a meeting in November to review and prioritize the product
				backlog based on business value and urgency, ensuring alignment with project goals. BHA plans to invite the IV&V team to participate in the backlog review meetings.
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 September reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.	
Y	with BHA's automated testing scripts. IV&V recommends BHA conformation efforts to resolve automated testing script issues in order to realize automated testing, which may include reducing human error, more outcomes, better coverage, and reduced production defects.		The project continues to perform regression testing manually due to ongoing issues with BHA's automated testing scripts. IV&V recommends BHA continue making efforts to resolve automated testing script issues in order to realize the benefits of automated testing, which may include reducing human error, more consistent outcomes, better coverage, and reduced production defects.	
1	T	1	· andation	IV&V has identified key testing areas to discuss with project representatives for a better understanding of the INSPIRE testing process. DDD will organize these meetings.



Sep	Oct	Nov	Category	IV&V Observations
Y	Y	Y	Release / Deployment Planning	The Root Cause Analysis (RCA) for the medium severity defect, hot-fixed on October 24, 2024, is still pending. No deployments occurred in November 2024, and R4.9 is set for December 2024. The IV&V team will monitor the quality of the R4.9 deployment and MSDs. BHA plans to digitize approximately 2.5 million paper documents to transition to a paperless system. The current SharePoint site cannot handle the expected volume without a redesign. Although the System Integration (SI) team has been working to enhance a process that typically takes about 15 days and occurs once or twice a year, DDD has decided to pause further development due to SharePoint limitations. If DDD encounters issues with the existing process, it will reevaluate the need for enhancements.



Sep	Oct	Nov	Category	IV&V Observations	
G	G	G	On-The-Job- Training (OJT) and Knowledge Transfer (KT) Sessions	This category remains Green (low criticality) for the November reporting period with no active findings.	
G	G	G	Targeted KT	his category remains Green (low criticality) for the November reporting period. IV&V ill continue to monitor.	
G	G	G	Project Performance Metrics	There are no project performance metrics to report for the November reporting period. IV&V will keep this category's criticality rating Green (low criticality) and will continue to monitor.	
G	G	G	Organizational Maturity Assessment (OMA)	This category remains Green (low criticality) for the November reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.	



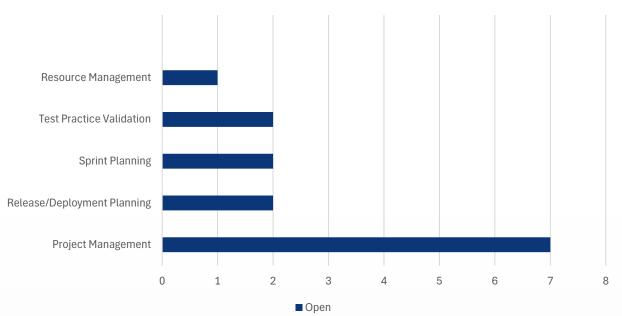
Sep	Oct	Nov	Category	IV&V Observations
Y	∀	Y	Project Management	As of the end of this reporting period, 19 production defects remain open, including 17 medium-severity and two high-severity defects, despite testing at all levels. The SI has reported that BHA's prioritization process focuses on addressing higher-priority tasks, leaving lower-priority defects unresolved. Due to resource challenges at BHA and Microsoft (MS), the project will restart performance tests for both DDD and CAMHD, despite having completed CAMHD earlier. MS has finished testing CAMHD and will test DDD after the R4.9 deployment, with an estimated completion time of 1 to 2 weeks. BHA and IV&V have highlighted the need for tracking costs related to key functionalities like the Provider Portal and FHIR. In September 2024, IV&V suggested using Tags in Azure DevOps for cost tracking, which BHA stakeholders accepted. While BHA is satisfied with the system integrator's budget compliance for major functionalities, they are concerned about Med-QUEST's ongoing challenges in tracking federal financial participation allotments and the claims submission process. These issues have persisted since the project began and remain unresolved despite efforts to address them. These deficiencies require considerable time to make corrections and may require additional funding. The project is taking steps to improve their overall system and defect tracking governance. BHA leadership remains concerned about the inconsistent logging of defects by users and the Help Desk. BHA has yet to develop a documented governance process for restarting production systems. The lack of good system governance processes can lead to confusion, reduced quality assurance, and inefficient development processes. Med-QUEST has corrected the missing Uniform Billing (UB) Claims Forms data and is refining the data and machine learning (ML) model. They will now provide claims data monthly, whereas it was not offered regularly before.

Sep	Oct	Nov	Category	IV&V Observations
Y	Y	Y	Resource Management	IV&V remains concerned that limited BHA resources could create project delays and reduce system quality. BHA requested funding for additional project resources, however the request was not approved by the State. BHA plans to resubmit the request in next year's budget and will continue to look for other resource and funding options. IV&V continues to recommend that the project streamline communications between BHA divisions in order increase productivity of project activities and decision-making.



As of the November 2024 reporting period, eleven (14) open findings were updated – Nine (9) Medium Issues, two (2) Medium Risks, one (1) Low Issue, and two (2) Preliminary Concern spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, Project Management, and Resource Management assessment areas are currently open.







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: A lack of regular Sprint Reviews and Sprint Demos will likely lead to misalignments between delivered work and stakeholder needs. Finding Update: The project has indicated that sprint reviews and demos are conducted on an ad hoc basis, depending on the completion of features. There are no regular meetings scheduled for sprint reviews. Demos are typically performed informally, often through quick conversations or screen sharing, based on the priority and readiness of the features. This informal approach to demos may result in inconsistent feedback collection and delayed issue identification, which can negatively impact the overall effectiveness of the sprint. IV&V recommends that the SI vendor establish regular sprint reviews and demos to ensure structured feedback, provide more visibility into all completed features, and improve team coordination.	M	
Recor	nmendations	Status	
(R4.2 work to	ding to Agile Best Practices, IV&V recommends including Sprint Reviews and Demos in future releases and onwards). At the end of each sprint, conduct a sprint review meeting to demonstrate the completed o stakeholders and gather feedback. Use this feedback to refine and reprioritize the product backlog. For month sprint, IV&V recommends having more than one (1) demo during the sprint.	In Progress	
	a stakeholder register to identify all stakeholders. List their identification, assessment, and classification. the register regularly to plan appropriate stakeholder engagement.		
Foster	r active participation from users and stakeholders during both Sprint Reviews and Sprint Demos.		



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 plans. This will enhance stakeholder engagement and project transparency.	In Progress
Institute a structured documentation process for Sprint Reviews and Sprint Demos. Document key decisions, action items, and insights from each session to ensure accountability and to support ongoing process improvement.	In Progress



Sprint Planning (cont'd)

_		
#	Key Findings	Criticality Rating
41	Medium Risk: The absence of separate dedicated product backlog review meetings can lead to unclear priorities, misalignment with stakeholders, inadequate refinement, and increased risk of scope creep. Finding Update: The DDD team has scheduled a meeting for this month (November) to review the product backlog. During this session, the team will assess the current backlog items, prioritize them according to business value and urgency, and ensure they align with the overall project goals. BHA plans to invite the IV&V team to participate in the backlog review meetings.	M
Reco	nmendations	Status
Separate dedicated product backlog review meetings (during Sprints) would allow clarifying any ambiguities or uncertainties, re-prioritization, estimation and refinement of backlog items. This would allow the project team to avoid situations where decisions about including items mid-Sprint would have to be taken.		
releva	IV&V 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).	



Test Practice Validation

#	Key Findings	Criticality Rating
2	Medium Issue: As a result of regression testing not being consistently performed, production releases are breaking existing functionality in the production environment. Finding Update: For the 3rd consecutive release (releases 4.7 through 4.9), regression testing is being done solely manually. Relying solely on manual regression testing without any automation could introduce risks and inefficiencies such as increased time and effort that may lead to delays, human error, inconsistencies as testing outcomes can vary depending on the individual tester, limited test coverage, risk of production defects since manual testing is prone to human error and the likelihood of defects slipping through to production increases, and the dependence on specific testers' expertise and knowledge. IV&V recommends continuing investing in automated regression testing as it can improve efficiency and reduce the burden on BHA staff and ensure better product quality over time.	M
Recon	nmendations	Status
To ensure effective Tosca testing, it is crucial for both divisions to align on a unified resource allocation strategy. Given the limited availability of resources, open communication and consensus-building are essential for optimizing tester utilization. By collaborating to prioritize testing efforts, share critical test cases, and identify overlapping areas, the divisions can achieve comprehensive regression testing without overburdening a single resource. This collaborative approach will balance workloads, streamline processes, and enhance test coverage, minimizing delays and bottlenecks. Ultimately, it will enable both divisions to efficiently meet their testing objectives.		
	nced approach that combines manual and automated regression testing to ensure broad test coverage exibility.	Open



Test Practice Validation (cont'd)

Recommendations	Status
Having board(s) in Azure DevOps or a document on SharePoint that provides information about the status of regression testing automation, to facilitate visibility and transparency to BHA project personnel and stakeholders.	In Progress
Schedule 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 and Golden Record (GR) tasks.	In Progress
Pursue and complete additional formal training in Azure DevOps and Tricentis for test automation as soon as possible and complete efforts to automate the two primary regression test scripts.	In Progress
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: Insufficient testing processes can lead to poor-quality software, project delays and extended user acceptance testing. Finding Update: IV&V has identified specific testing areas to discuss with the appropriate project representatives to gain a deeper understanding of the INSPIRE testing process. DDD has agreed to facilitate the organization of these meetings.	M	
Recor	nmendations	Status	
IV&V has requested an overview of the testing process, with a focus on process such as tracking test coverage and requirements traceability.			
risks a	A Stakeholder Register helps identify and understand all project stakeholders, ensuring their needs are met and risks are managed through effective communication. A RACI clarifies roles and responsibilities, improving collaboration, decision-making, and resource management, which are all critical for the success of IT projects.		
Identif	Identify stakeholders (output is Stakeholder Register) and develop a RACI matrix for testing.		
Revie	w the overall testing process and implement any needed improvements identified.	Open	



Release / Deployment Planning (cont'd)

#	Key Findings	Criticality Rating
39	Low 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: The Root Cause Analysis (RCA) for the medium severity defect (for which a hot fix was deployed on 10/24/24) is still pending. There were no deployments in November 2024; R4.9 is scheduled to be deployed in December 2024. IV&V will monitor the quality of the upcoming R4.9 deployment and MSDs.	L
Reco	mmendations	Status
faste	The project should consider automating deployments for resource savings, increased efficiency, consistency, faster time to market, improved collaboration and reliability, scalability, version control integration, and rollback capability.	
requi	Ensure there are adequate and qualified resources to support the current deployment processes. This may require support from RSM resources to provide assistance and knowledge transfer for some more complex deployment components.	



IV&V Findings & Recommendations Release / Deployment Planning (cont'd)

Recommendations	Status
As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	Open
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.	Open
Request assistance from the RSM Solution Architect in reviewing deployment scripts to double-check for accuracy and completeness before 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 a Root Cause Analysis (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

Release / Deployment Planning

#	Key Findings		
43	Medium Issue: Execution time for the process for updating DDD SharePoint folders was unacceptable. Finding Update: BHA plans to launch an initiative to digitize approximately 2.5 million paper documents as part of a broader effort to transition to a paperless system. While the SI has been working on enhancing the existing process which previously required around 15 days to complete, the current SharePoint site cannot accommodate the anticipated volume without a redesign of the SharePoint hierarchy. Considering the low frequency of the process (only once or twice per year) and the challenges posed by the SharePoint limitations, DDD has decided to pause further development on these improvements. However, if DDD encounters difficulties in executing the existing process, it will reevaluate the need for these enhancements.		
Rec	Recommendations		
IV&V recommends doing an impact analysis, e.g., downstream impact.		Open	
enco	IV&V recommends that 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," and defects.		
IV&\	IV&V recommends evaluating other feasible options, e.g., leveraging SharePoint tools and best practices.		
A pro	A project issue should be opened to identify and manage the resolution of this issue.		

#	Key Findings	
14	Medium Issue: Due to multiple quality concerns, the project may continue to face impactful system defects. Finding Update: R4.9 is scheduled to be deployed to production on 12/5/2024. In the current production system, there exists 19 outstanding production defects (17 are classified as medium severity and 2 as high severity). These production defects arose despite testing at all levels. The SI has indicated that BHA prioritizes its work, which results in lower-priority defects remaining unresolved in favor of higher-priority tasks. The SI is making a concerted effort to report and fix these production defects as IV&V and BHA remain concerned that code quality issues continue to impact the project, and users continue to be impacted by post-production bugs.	
Recor	nmendations	Status
-	roject increases comprehensive testing prior to joint testing to reduce the burden on BHA testers and e post-production defects.	Open
	I vendor add a "Found In" column to the daily scrum file to indicate the environment where each defect entified.	In Progress
The SI	I vendor provides the total number of defects in production and reports these numbers regularly to BHA.	In Progress
Evalua	ate existing project staff skills and experience levels to ensure they meet BHA support requirements.	In Progress
Perfor	m CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as ted.	In Progress



#	Key Findings			
	Medium Issue: Performance bottlenecks with the INSPIRE production environment may result in low productivity and poor user experience.			
33	Finding Update: Due to BHA and Microsoft (MS) resourcing challenges, despite completing the CAMHD performance test earlier, the project decided to execute the test from the beginning for both DDD and CAMHD. MS has completed performance testing the CAMHD functionality and will conduct performance testing for the DDD-scoped items after the deployment of R4.9 to production. The estimated timeline for completion is 1–2 weeks.	M		
Reco	Recommendations			
5/20/	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			
	Conduct load and performance testing for each release that has significant new features/functionality, e.g., Calculator-related transactions.			
Crea	Create a plan for comprehensive performance testing and address any performance bottlenecks.			
Have	Have the benchmark assessments done annually and implementation of Azure App Insights for Power Platform.			
	Execute test scripts that measure the run-time for execution of long-running transactions. E.g., Calculator functionality/transactions and monitoring results over time.			



#	# Key Findings		
42	Medium Issue: Lack of effective governance and communication among stakeholders can have significant negative impacts on a project in several ways. Finding update: IV&V is unaware of the progress towards mitigating this risk.		
Recommendations			
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	
and	elop a Stakeholder Registry, RACI Matrix, and Stakeholder Engagement Plan: Identify key stakeholders develop a plan to engage them throughout the project lifecycle. Tailor communication strategies to address needs and preferences of different stakeholders, ensuring their active involvement and support.	Open	
invol	rly Define Roles and Responsibilities: Clearly outlining the roles and responsibilities of each stakeholder ved in the project, would ensure that everyone understands their duties and how they contribute to the ect'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	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



#	Key Findings	Criticality Rating
	Preliminary Concern: The current process does not allow BHA to track actual costs versus budgeted costs by feature/functionality. The current invoices from the System Integrator (SI) vendor lack sufficient details that would allow BHA to track actual costs versus budgeted costs by, e.g., features such as Provider Portal, Maui Wildfire Communication, FHIR and Golden Record or by user story.	
45	Finding update: During earlier discussions between BHA and IV&V, DDD emphasized the importance of tracking costs for major functionalities like the Provider Portal and FHIR. In September 2024, IV&V proposed options for cost tracking, including the use of Tags in Azure DevOps (ADO). BHA stakeholders suggested similar straightforward methods, aligning with IV&V's recommendation. Since BHA is currently satisfied with the system integrator's (SI) adherence to the allocated budget for key functionalities, BHA does not consider this as a risk. However, BHA has raised significant concerns about Med-QUEST's ongoing inability to track federal financial participation allotments and its claims submission process, issues that have persisted since the project's inception. These deficiencies require considerable time to make corrections and may require additional funding. Despite previous assurances of procedural improvements, the problem remains unresolved.	N/A



#	Key Findings		
46	 Medium Issue: Neglecting the established defect management process could lead to lost/forgotten defects, user frustration, and could slow resolution of similar defects in the future. Finding Update: In recent meetings with DDD and CAMHD, IV&V discussed the issue of some defects reported to the Helpdesk via phone or other channels not being logged or addressed. DDD noted that staff find the process of logging such defects cumbersome. However, DDD leadership has emphasized that all defects must be logged. IV&V and BHA to continue these discussions to determine process gaps and the next steps. 		
Rec	ommendations	Status	
1. Se impo 2. Ta 3. Co assu 4. Ke incre 5. Di	IV&V recommends to: 1. Send communications to the project stakeholders to clarify the defect management process and the importance of logging all defects. 2. Take steps to assure current and new users understand how to report and/or log defects. 3. Consider designating a defect management lead or champion to oversee adherence to the process and assure all defects are logged. 4. Keep stakeholders informed about defect status, priority, impacts, and resolution timelines. This could increase awareness of the importance of logging defects. 5. Discuss ways to improve the defect logging and management process with the SI and come up with a plan to improve.		



#	Key Findings	Criticality Rating
47	Medium Issue: The lack of a governance process for restarting production systems can impact service availability and frustrate end-users and hinder accountability. Finding Update: No progress has been made for this reporting period.	M
Rec	ommendations	Status
1. Do resta 2. Ro cent 3. Do tech 4. Au 5. Th 6. Pu	Precommends BHA evelop standard procedures for system restarts, including pre-checks, step-by-step instructions, and post-cart verifications. equire formal approvals before initiating a restart, especially for INSPIRE, and document all actions in a ralized system. efine clear escalation paths for when restarts do not go as planned, including identifying contacts for nical support and management approval for additional interventions. Sutomate Restart Procedures where possible. The governance process is established, it should be effectively communicated to the project team. To rovide stakeholders with a clear explanation of the reason for the restart and the lessons learned, while tementing the restart details in the defect record.	Open



#	Key Findings	Criticality Rating
	Preliminary Concern: Some AER project requirements are reliant on data provided by external partners (e.g., Dept. of Human Services (DHS)).	
48	Finding Update : Med-QUEST corrected the data with the missing Uniform Billing (UB) Claims Forms data. The project is continuing the refinement of data and the machine learning (ML) model. Med-QUEST previously did not provide claims data regularly but will now begin providing it on a monthly basis.	N/A



Resource Management

#	Key Findings			
	Medium Issue: A shortage of BHA project resources could lead to reduced productivity and project delays.			
34	Finding Update: IV&V remains concerned that limited BHA resources could create project delays and reduce system quality. BHA requested funding for additional project resources, however the request was not approved by the State. BHA plans to resubmit the request in next year's budget and will continue to look for other resource and funding options. IV&V continues to recommend that the project streamline communications between BHA divisions in order to increase the productivity of project activities and decision-making.	M		
Recommendations				
DDD	and CAMHD have further discussions to optimize resource utilization between the two divisions.	Open		
ВНА	should explore options for offloading project team members' daily responsibilities to other staff.	In Progress		
ВНА	should work quickly to backfill vacated project team member positions.	In Progress		
	should identify tasks and duties that they can ask the SI to assume, as permitted by the contract, which presently being handled by BHA members.	In Progress		
ВНА	should explore the use of contractors to fill open project positions.	In Progress		



IV&V Findings & Recommendations Project Performance Metrics

Metric	Description	IV&V Observations	IV&V Updates			
	Review and validate the velocity data as reported by the		Velocity	Metric Tre	ends:	
Velocity	project Verify the project is	November: There were no deployments in November 2024.	Release	Planned velocity	Actual velocity	Percentage attained
	on pace to hit the total target number of US/USP		R4.9	111	TBD	TBD

Actual

Cumulative

Phase 4 Releases Cumulative Variance

		velocity	variance
R4.1	309	114	-195
R4.2	85	174	-106
R4.3	85	124	-67
Golden Record Mid- Sprint Deployment (MSD)	0	68	1
R4.4	240	225	-14
R4.5	95	76	-33
R4.6	84	103	-14
R4.7	111	50	-75
R4.8	111	107	-79
R4.9	111	TBD	TBD

Planned velocity

Release



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 	November - There were no deployments in November 2024.	TBD

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

Appendix A: IV&V Rating Scales

Appendix AIV&V Rating Scales

This appendix provides the details of each finding and recommendation identified by IV&V. Project stakeholders are encouraged to review the findings and recommendations log details as needed.

- See Findings and Recommendations Log (provided under separate cover)
- IV&V Assessment Category Rating Definitions

The assessment category is under control and the current scope can be delivered within the current schedule.

The assessment category's risks and issues have been identified, and mitigation activities are effective. The overall impact of risk and issues is minimal.

The assessment category is proceeding according to plan (< 30 days late).

The assessment category is under control but also actively addressing resource, schedule or scope challenges that have arisen. There is a clear plan to get back on track.

The assessment category's risk and/or issues have been identified, and further mitigation is required to facilitate forward progress. The known impact of potential risks and known issues are likely to jeopardize the assessment category.

Schedule issues are emerging (> 30 days but < 60 days late).

Project leadership attention is required to ensure the assessment category is under control.

The assessment category is not under control as there are serious problems with resources, schedule, or scope. A plan to get back on track is needed.

The assessment category's risks and issues pose significant challenges and require immediate mitigation and/or escalation. The project's ability to complete critical tasks and/or meet the project's objectives is compromised and is preventing the project from progressing forward.

Significant schedule issues exist (> 60 days late). Milestone and task completion dates will need to be re-planned. Executive management and/or project sponsorship attention is required to bring the assessment category under control.



Appendix A

Finding Criticality Ratings

Criticality Rating	Definition
•	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be implemented as soon as feasible.
L	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.



Appendix B

Inputs

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

Meetings attended during the August 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
- 11. US# Testing & Request Items
- 12. AER Analytics Bi-weekly Meeting

Eclipse IV&V® Base Standards and Checklists



Artifacts reviewed during the August 2024 reporting period:

- 1. Daily Scrum Notes
- 2. Twice Weekly Issues Meeting Notes
- 3. Weekly BHA-ITS Program Status Report
- 4. Release 4.7 Relase Notes

Appendix C: Project Trends

Appendix C Project Trends

	February	March	April	May	June	July	August	September	October	November
User Story Validation										
Test Practice Validation Sprint										
Planning Release / Deployment										
OJT and KT Sessions										
Targeted KT										
Project Performance Metrics										
Organization al Maturity Metrics										
General Project Managemen t										
Resource Managemen t										
Total Open Findings	12	11	12	13	13	12	12	14	14	14
Issue - high	12	0	0	0	0	0	0	0	0	0
Issue - medium	12	8	8	8	8	8	8	10	10	10
Issue - low	12	0	1	1	1	1	1	1	1	1
Risk - high	12	0	0	0	0	0	0	0	0	0
Risk - medium	12	2	2	2	2	2	2	2	2	2
Risk - low	12	0	0	0	0	0	0	0	0	0
Preliminary Concern	12	1	1	2	2	1	1	2	2	2

Appendix D Acronyms and Definitions

Acronyms	Definition
DOH	Department of Health
ВНА	Behavioral Health Services Administration
CAMHD	Child & Adolescent Mental Health Division
FHIR	Fast Healthcare Interoperability Resources
DDD	Developmental Disabilities Division
USP	User Story Points
SME	Subject Matter Expert
SIT	System Integration Testing
MS	Microsoft
MSD	Mid Sprint Deployment
ADO	Azure DevOps
SLA	Service Level Agreement
RCA	Root Cause Analysis
UAT	User acceptance testing
OJT	On-the-Job Training
KT	Knowledge Transition
SFTP	Secure File Transfer Protocol
IV&V	Independent Verification and Validation





Solutions that Matter

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
2	Regression testing	As a result of regression testing not being consistently	R3.3 introduced a defect that deprecated features in	To ensure effective Tosca testing, it is crucial for both divisions to align	11/30/2024 - For the 3rd consecutive release (releases 4.7	Test Practice	Issue	Medium	Open		12/31/2019	Gautam	
		performed, production releases are breaking existing	production specific to Integrated Support and Life Trajectory	on a unified resource allocation strategy. Given the limited availability of	through 4.9), regression testing is being done solely	Validation					, , , , , ,	Gulvady	
		functionality in the production environment.	functionality. DDD has informed IV&V that there are other	resources, open communication and consensus-building are essential for	manually. Relying solely on manual regression testing							,	
		, , , , , , , , , , , , , , , , , , , ,	examples of functionality being deprecated after a release,	optimizing tester utilization. By collaborating to prioritize testing efforts,	without any automation could introduce risks and								
			some of which are still being investigated. As of this report,	share critical test cases, and identify overlapping areas, the divisions can	inefficiencies such as increased time and effort that may								
			IV&V has not evaluated the project's root cause analysis (RCA)	achieve comprehensive regression testing without overburdening a single	lead to delays, human error, inconsistencies as testing								
			process used to determine why such functionality was	resource. This collaborative approach will balance workloads, streamline	outcomes can vary depending on the individual tester,								
			deprecated but will discuss further with BHA in January 2020.	processes, and enhance test coverage, minimizing delays and bottlenecks.	limited test coverage, risk of production defects since								
			Thorough vetting and validation of regression test cases are	Ultimately, it will enable both divisions to efficiently meet their testing	manual testing is prone to human error and the likelihood								
			necessary to prevent defects when a release is pushed live.	objectives.	of defects slipping through to production increases, and the								
			When defects occur in production, the project should follow a		dependence on specific testers' expertise and knowledge.								
			defined and repeatable process for determining the root cause	2. A balanced approach that combines manual and automated regression	IV&V recommends continuing investing in automated								
			of the problem.	testing to ensure broad test coverage and flexibility.	regression testing as it can improve efficiency and reduce								
					the burden on BHA staff and ensure better product quality								
				Having board(s) in Azure DevOps or a document on SharePoint that	over time.								
				provides information about the status of regression testing automation, to									
				facilitate visibility and transparency to BHA project personnel and	10/31/24 - Automated regression test script (Tosca) issues								
	l l			stakeholders.	have yet to be resolved, therefore, regression testing		1				l	1	
					continues to be performed manually. The most recent						l		
				4. IV&V recommends reevaluating the schedule priorities by distributing the	release (R4.8) was manually tested and successfully		1				l		
	l l			work according to the resource bandwidth. This will ensure that the	deployed to production. CAMHD is currently re-recording		1				l	1	
				schedule is not impacted and that the work is done efficiently between	the regression test scripts. DDD lacks the necessary								
				regression testing and Golden Record (GR).	resources to perform Tosca testing. DDD requested that								
					IV&V collaborate with DDD to create an assessment plan to								
				5. Pursue and complete additional formal training in Azure DevOps and	evaluate Tosca testing.								
				Tricentis for test automation as soon and complete efforts to automate the									
				two primary regression test scripts.	9/30/24 - Microsoft updated object properties in the								
					Microsoft Dynamics application. According to Tricentis'								
				6. IV&V recommends DDD and CAMHD to develop a common and	research, the regression test scripts will need to be re-								
				consistent approach across divisions for performing regression testing.	recorded to enable automated regression testing. As a								
					result, the R4.8 regression testing, which began on								
				7. Determine if current regression testing timeframes are adequate and if	9/23/2024, is being conducted manually. Additionally, in a								
				not, add more time to the pre-production regression test efforts for all	separate incident, a Microsoft fix related to a previously								
14	Code quality	Due to multiple quality concerns, the project may continue	System defects identified in August that affected claims were	The project increases comprehensive testing prior to joint testing to reduce	11/30/2024 - R4.9 is scheduled to be deployed to	Project Management	Issue	Medium	Open		9/30/2020	Gautam	
		to face impactful system defects.	due to multi-faceted quality issues were individually addressed	the burden on BHA testers and reduce post-production defects.	production on 12/5/2024. In the current production system							Gulvady	
			during this reporting period. IV&V notes that there is one		there exists 19 outstanding production defects (17 are								
			remaining defect still being evaluated that affects a limited	The SI vendor add a "Found In" column to the daily scrum file to indicate	classified as medium severity and 2 as high severity). These								
			number of claims. Overall, the Project Team has responded	the environment where each defect was identified.	production defects arose despite testing at all levels. The SI								
			with a commitment to increase project quality and is in the		has indicated that BHA prioritizes its work, which results in								
			process of identifying improvements to associated testing	The SI vendor provides the total number of defects in production and	lower-priority defects remaining unresolved in favor of								
			processes. These currently include: Performing Revenue	reports these numbers regularly to BHA.	higher-priority tasks. The SI is making a concerted effort to								
			Neutrality Testing to ensure expected revenue streams are		report and fix these production defects as IV&V and BHA								
			largely unchanged from one period to the next. Conducting	Evaluate existing project staff skills and experience level to ensure they	remain concerned that code quality issues continue to								
			System Integration Testing, User Acceptance Testing,	meet BHA support requirements.	impact the project, and users continue to be impacted by								
			Performance Testing, and Regression Testing for Release 3.10.		post-production bugs.		1				l		
	l l		IV&V will continue to monitor the testing efforts throughout	Perform CAMHD revenue neutrality fiscal balance testing on a quarterly			1				l	1	
			the balance of Release 3.10 and validate that enhanced quality	basis to ensure revenues are as expected.	10/31/24 - The deployment of R4.8 to production occurred		1				l		
			processes, including industry standard regression testing,		on October 16, 2024, which was later than the originally		1				l		
			continue for Agile Release 3.11 forward. Finally, IV&V		planned date of October 3, 2024. This timeline shift was		1				l		
			reviewed and provided feedback on the Help Desk and	Assign dedicated resources to provide oversight of CAMHD Fiscal Processes.			1				l		
			Semantic Layer design documents per request and found that		Behavioral Health Services Administration (BHA) ticket. This		1				l		
			both documents lacked design details.	Monitor implemented improvements for effectiveness.	fix introduced critical issues in the Provider Portal during		1				l		
	l l		The identified quality issues have negatively affected DOH		System Integration Testing (SIT), which led to a pause in		1				l	1	
			billing processes and DOH has stated these are the most	IV&V recommends performing an RCA in collaboration with RSM after all	manual regression testing. On October 24, 2024, the SI		1				l		
	l l		impactful defects discovered to date.	future release deployments for continual quality improvement.	implemented a hotfix to address a medium-severity defect.		1				l	1	
					There are 19 outstanding production defects (17 are		1				l		
	l l			BHA and RSM to collaborate on the necessary revisions to the submitted	classified as medium severity and 2 as high severity). These		1				l	1	
				design deliverables to increase level of detail and quality.	production defects arose despite testing at all levels,		1				l		
					including unit, SIT, regression, and joint testing. IV&V		1				l		
				Perform typical project testing including System Integration, User	remains concerned that code quality issues continue to		1				l		
				Acceptance, Performance, and Regression Testing.	impact the project, and users continue to be impacted by		1				l		
				Dedicate sufficient time in between releases for BHA and RSM to	post-production bugs.		1				l		
				execute/implement RCA correction actions to reduce the volume of			1				l		
				unplanned rework.	9/30/24 - The SI vendor deployed a fix for the Calculator		1				l		
	1				defect related to deleting service details. Based on IV&V's		1				l		
1													

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Dat	e Owner	
31	Sprint Demos	Lack of regular Sprint Reviews and Sprint Demos will likely	Earlier in the project, end-of-sprint demos were conducted.	According to Agile Best Practices, IV&V recommends including Sprint	11/30/24 - The project has indicated that sprint reviews and	Sprint Planning	Risk	Medium	Open		7/26/2023	Gautam	
		lead to misalignments between delivered work and	Sprint reviews/demos help to bring alignment across the team	reviews and demos in future releases (R4.2 and onwards).	demos are conducted on an ad hoc basis, depending on the						, , ,	Gulvady	
		stakeholder needs.	and stakeholders. They are essential building blocks for better	, , , , , , , , , , , , , , , , , , , ,	completion of features. There are no regular meetings							,	
			software and teams. Sprint demos /reviews showcase the	At the end of each sprint, conduct a sprint review meeting to	scheduled for sprint reviews. Demos are typically								
			main functionality to stakeholders and incorporate their	demonstrate the completed work to stakeholders and gather feedback. Use									
			feedback. Currently, the project has joint testing involving the	this feedback to refine and reprioritize the product backlog. For a 2-month	screen sharing, based on the priority and readiness of the								
			SI and BHA personnel. Per Agile Best practices, IV&V believes	sprint, IV&V recommends having more than one (1) demo during the sprint.									
			having Sprint demos/reviews during a sprint helps clarify and		inconsistent feedback collection and delayed issue								
			validate design prior to testing, steer the team in the right	Create a stakeholder register to identify all stakeholders. List their	identification, which can negatively impact the overall								
				identification, assessment, and classification. Review the register regularly	effectiveness of the sprint. IV&V recommends that the SI								
			the testing team to focus solely on testing, which is beneficial.	to plan appropriate stakeholder engagement.	vendor establish regular sprint reviews and demos to								
					ensure structured feedback, provide more visibility into all								
			Based on Agile Best Practices, Sprint Demos or reviews occur	3. Foster active participation from users and stakeholders during both Sprint									
			during a sprint with the development team, scrum master, and	Reviews and Sprint Demos. Emphasize the value of iterative feedback to	, , , , , , , , , , , , , , , , , , , ,								
			product owner and and gives all relevant stakeholders the	guide development and ensure that user needs are consistently met.	10/31/24 - The project has not yet established regular								
			opportunity to assess the completion of user stories, review		sprint demos and Sprint Reviews. While testing activities								
				4. Establish standardized communication protocols for both Sprint Reviews	provide DOH with a preview of implemented functionality,								
			has been achieved. This approach would also help prioritize	and Sprint Demos. Encourage teams to deliver concise and informative	IVV remains concerned that the absence of formal demos		1				1	1	
			and prepare the backlog for the next Sprint.	progress reports, including achievements, challenges, and plans. This will	and Sprint Reviews may lead to misalignment between		1				1	1	
				enhance stakeholder engagement and project transparency.	requirements and system design. IV&V continues to		1				1	1	
			Regular Sprint Reviews and demos strengthen the		recommend setting up a consistent cadence for Sprint		1				1	1	
			collaboration between development teams and stakeholders	5. Institute a structured documentation process for both activities.	Reviews and demos to validate whether stakeholder		1				1	1	
			by enhancing communication channels and validating project	Document key decisions, action items, and insights from each session to	requirements have been effectively met, to gather Subject		1				1	1	
			objectives and ensuring that sprint deliverables remain	ensure accountability and to support ongoing process improvement.	Matter Experts' (SMEs) feedback that can also be used to		1				1	1	
			consistent with stakeholder requirements.		refine and reprioritize the product backlog. IV&V								
			·		recommends that the project involve IV&V in Sprint								
			They are a great opportunity for the product owner,		Reviews to preview implemented functionality, track								
			stakeholders, and the team to review what's being delivered		progress and to identify potential issues early on.								
			and receive feedback. This way, the team can gauge responses		, , , , , , , , , , , , , , , , , , , ,								
			and make observations earlier during development and not		9/30/24 - FHIR development and testing is currently on-								
			later during testing.		going; BHA has seen some of the FHIR functionality during								
			, ,		testing. The project is yet to have regular demos as part of								
			Celebrating the team's accomplishments is also an essential		Sprint Reviews. IV&V's recommendation continues to be								
33	System performance	Performance bottlenecks with the INSPIRE production	Performance issues have been identified that have the	IV&V recommends: BHA execute a performance test during the	11/30/2024 - Due to BHA and Microsoft (MS) resourcing	Project Management	Issue	Medium	Open		8/18/2023	Gautam	
		environment may result in low productivity and poor user	potential to impact the system's functionality, user experience,	development of R4.6 (planned completion 5/20/2024), identifying test	challenges, despite completing the CAMHD performance				i .			Gulvady	
		experience.	and the overall reliability of the system. These performance	cases and scenarios that include both DDD and CAMHD functionality,	test earlier, the project decided to execute the test from								
			issues warrant immediate attention and resolution.	transactions/functionality that are performance intensive, e.g., calculator	the beginning for both DDD and CAMHD. MS has completed								
				functionality	performance testing the CAMHD functionality and will								
			The last performance test was executed in June 2023 for Phase		conduct performance testing for the DDD-scoped items								
			3 releases (R3.x). ~800+ new User Story Points (USPs) have	2. Conduct load and performance testing for each release that has	after the deployment of R4.9 to production. The estimated								
			been developed since the last performance test execution.	significant new features/functionality, e.g., calculator-related transactions.	timeline for completion is 1-2 weeks.								
			Developmental Disability Division (DDD) personnel are	3. Create a plan for comprehensive performance testing and address any	10/31/24 - Microsoft is continuing performance testing of		1		l	1	1	1	1
			encountering performance issues with re-assigning cases and	performance bottlenecks.	the application and will provide the results/report upon		1				1	1	
			opening the DDD - Contact Notes (Fiscal View - Complete)		completion. After discussions with a project stakeholder, it		1				1	1	
			view. CAMHD has not reported performance issues.	4. Have the benchmark assessments done annually and implementation of	is agreed that when Microsoft provides the report, this		1				1	1	
				Azure App Insights for Power Platform.	report will be provided to the project team and IV&V.								
				5. Execute test scripts that measure the run-time for execution of long-	9/30/24 - Performance testing was originally conducted		1				1	1	
				running transactions. E.g., calculator functionality/transactions and	from June 4 to June 12, 2024. However, the Developmental		1		l	I	1	1	1
				monitoring results over time.	Disabilities Division (DDD) application was excluded from		1				1	1	
					the testing scope due to the extensive size of its test script.		1				1	1	
					The performance testing will include the DDD application as		1				1	1	
					well. Microsoft reported that it is still testing the CAMHD		1		l	1	1	1	1
					and Portal applications. Once those tests are complete,		1				1	1	
					testing of the DDD application will begin.		1				1	1	
							1				1	1	
					8/31/2024 - BHA requested Microsoft to conduct		1				1	1	
					Performance Tests which were executed from June 4th to		1		l	1	1	1	1
					June 12th, 2024. Stakeholders are currently awaiting		1				1	1	
					Microsoft's performance test report. The Performance Test		1		l	1	1	1	1
					report should validate whether the INSPIRE system meets		1				1	1	
					required performance standards and can effectively handle		1				1	1	
					expected and peak loads.		1				1	1	
							1		l	1	1	1	1
			1	1	7/31/2024 - Microsoft executed the performance test		1	1	Ì	1		1	I

	ID SI	hort Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Type	Priority S	atus Closed D	ate l	dentified Date	Owner	
			. mains statement	Analysis and significance	The commentation	Think openic	category	1,100	Thomas 5	utus Cioscu B		acminea Date	Oune.	
34	Li	mited BHA resources S	Shortage of Behavioral Health Administration (BHA) project	Key BHA project resources have reported constraints on how	1. DDD and CAMHD have further discussions to optimize resource utilization	11/30/24 - IV&V remains concerned that limited BHA	Resource	Issue	Medium C	pen	8	3/18/2023	Michael Fors	
		r	resources could lead to reduced productivity and project	much time they can devote to the project. The departure of	between the two divisions.	resources could create project delays and reduce system	Management							
		d	delays.	the Child and Adolescent Mental Health Division (CAMHD)		quality. BHA requested funding for additional project								
				System Management Office Manager and CAMHD Inspire	2. BHA should explore options for offloading project team members' daily	resources, however the request was not approved by the								
				Project Lead could further impact the project if DOH cannot	responsibilities to other staff.	State. BHA plans to resubmit the request in next year's								
				acquire suitable resources. The lack of capacity of the DOH		budget and will continue to look for other resource and								
				test script developer has slowed DOH's automated test script	3. BHA should work quickly to backfill vacated project team member	funding options. IV&V continues to recommend that the								
				development.	positions.	project streamline communications between BHA divisions								
				If BHA is unable to fully staff the project and their existing		in order to increase the productivity of project activities and								
				resources continue to be constrained, the project could	4. BHA should identify tasks and duties that they can ask the SI to assume,	decision-making.								
				experience a reduction in productivity and project delays.	as permitted by the contract, which are presently being handled by BHA									
					members.	10/31/24 - IV&V remains concerned that inadequate DOH								
						resources may result in project delays and diminished								
					BHA should explore the use of contractors to fill open project positions.	system quality. IV&V is continuing to recommend that the								
						two divisions communicate directly to address their								
						resourcing needs and optimize resourcing. DDD plans to								
						engage new hires in additional project areas, including								
						testing. IV&V will continue to explore roles and tasks with								
						BHA and make recommendations for staffing coverage.								
- 1										1	- 1		ı J	
						9/30/24 - BHA is in the process of acquiring new staff to							1	
1						strengthen Help Desk resources. IV&V remains concerned							1	
- 1						that the ongoing resource shortage and the lack of new				1	- 1		1	
						additions to the DDD team over the past five months will								
						continue to adversely affect the project.								
						8/31/2024 - The Business Analyst (BA) Position Description								
						(PD) is under review. BHA is awaiting resolution of the								
						Tosca (the automated testing tool) issue before adding an								
						additional automated testing resource.								
						3								
						7/31/2024 - DDD is finalizing the position description (PD)								
						for the Business Analyst. BHA is finalizing contractual								
39	Pi	ost-prod defects	Due to on-going deployment processes and technical	Several post-production bugs have been encountered in the	The Project should consider automating deployments for resource	11/30/2024 - The Root Cause Analysis (RCA) for the	Release/Deployment	Issue	Low C	pen	1	1/25/2024	Gautam	
			execution issues, the Project may continue to encounter	Phase 4 release, R4.4.	savings, increased efficiency, consistency, faster time to market, improved	medium severity defect (for which a hot fix was deployed	Planning						Gulvady	
		d	defects and challenges, e.g., when releases are in production	Regarding the bug, "Human Services Research Institute (HSRI)	collaboration and reliability, scalability, version control integration, and	on 10/24/24) is still pending. There were no deployments in	-						1	
			or in meeting projected timelines for production and non-	flow is failing in production" (bug# 34886	rollback capability.	November 2024; R4.9 is scheduled to be deployed in								
		l e	production deployments.	https://dev.azure.com/DOHBHA/DOH%20BHA%20INSPIRE/ w	, ,	December 2024. IV&V will monitor the quality of the								
				orkitems/edit/34886), what is in development and deployed is	2. Ensure there are adequate and qualified resources to support the current	upcoming R4.9 deployment and MSDs.								
				vastly different from what was deployed to production.	deployment processes. This may require the support from RSM resources to									
					provide assistance and knowledge transfer for some of the more complex	10/31/24 - R4.8 was deployed to production on 10/16/24,								
				The root cause for these errors is currently being investigated.	deployment components.	instead of 10/3/24. This delay was caused by a Microsoft								
						(MS) fix related to a previously raised Behavioral Health							1	
1				Repeatable documented release and deployment and	3. As appropriate, consult with RSM on best practices that BHA could	Services Administration (BHA) ticket, which introduced							1	
1					employ to support deployment.	critical issues in the Provider Portal in the System							1	
1				mistakes are minimized and that functionality is not		Integration Testing (SIT) and Test 2 environments, halting							1	
				mistakenly deprecated when deployments take place.	4. Request the assistance of the RSM Solution Architect in reviewing and	testing. The SI vendor's initiative to involve the team in a				1	- 1		1	
				, , ,	correcting issues associated with the consistency of configurations across	root cause analysis of the Microsoft fix shows a							1	
1					environments, ensuring that the test environment is capable of testing ALL	commitment to problem-solving. This collaboration aims to							1	
1					functions of any given release without the need for using multiple test	improve understanding, alignment, and resolution							1	
1					environments.	strategies, contributing to the project's success. The SI							1	
						vendor deployed a hot fix for medium severity defect on							1	
1					5. Request the assistance of the RSM Solution Architect in review of	10/24/24; the Root Cause Analysis (RCA) for this defect is							1	
1					deployment scripts as a double check for accuracy and completeness prior	still pending. The project plans to deploy Fast Healthcare							i J	
- 1					to commencing deployment activities.	Interoperability Resources (FHIR) as a mid-sprint				1	- 1		ı J	
1					Q	deployment (MSD). IV&V is concerned about							1	
1					6. The Project Team should consider evaluating potential changes to	inconsistencies in the deployment processes, particularly							1	
1					improve/enhance existing processes and communications to address	due to the absence of a designated deployment lead. IV&V							i J	
1					current release/deployment shortfalls.	will continue to monitor the quality of the R4.8 deployment							1	
1						and the upcoming MSD.							1	
					7. IV&V recommends performing an RCA in collaboration with RSM for the						J		1	
					continued concerns surrounding environment differences.	9/30/24 - The SI vendor deployed a fix for the Calculator				1	- 1		ı J	
					continued concerns surrounding environment unferences.	production defect related to the deletion of service details,					J		1	
- 1					9 IVEV recommends undating the Brainst's Configuration **	•	J			1	- 1		ı J	
				1	8. IV&V recommends updating the Project's Configuration Management	with no other deployments in September 2024. The R4.8 Go	1	1						
					Plan to address the current needs of the Project. This should include	Live was rescheduled from Thursday, 10/2/2024 +-					, ,		1	i i
					Plan to address the current needs of the Project. This should include specific checklists geared at ensuring repeatable promotional processes by	Live was rescheduled from Thursday, 10/3/2024, to Monday, 10/7/2024. As of September 30, 2024, manual								

- 1	ID SI	hort Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
40	In		Insufficient testing processes can lead to poor-quality software, project delays and extended user acceptance testing.	tested. As a result, time was expended by testing resources, testing was inadequate, and a user story may have been	IV&V has requested an overview of the testing process, with a focus on process such as tracking test coverage and requirements traceability. A Stakeholder Register helps identify and understand all project stakeholders, ensuring their needs are met and risks are managed through effective communication. A RACI clarifies roles and responsibilities, improving collaboration, decision-making, and resource management, which are all critical for the success of IT projects. 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.	processes and will provide a list of suggested items to cover (for example, tracking test coverage and requirements		Issue	Medium	Open		1/31/2024	Gautam Gulvady	
						involve the right stakeholders in the testing process, leading to more successful project outcomes. 7/31/2024 - No new updates. 6/30/2024 - IV&V shared the Stakeholder Register and RACI templates (based on best practices) with BHA in May 2024.								
41	В		The absence of separate dedicated product backlog review meetings can lead to unclear priorities, misalignment with stakeholders, inadequate refinement, and increased risk of	scattered focus, limited stakeholder engagement, difficulty in	Separate dedicated product backlog review meetings (during sprints) would allow clarifying any ambiguities or uncertainties, re-prioritization, estimation, and refinement of backlog items. This would allow the project	11/30/24 - The DDD team has scheduled a meeting for this month (November) to review the product backlog. During this session, the team will assess the current backlog items,	Sprint Planning	Risk	Medium	Open		1/26/2024	Gautam Gulvady	
			scope creep.	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 important Scrum ceremony that helps keep the backlog relevant, up-to-date, and aligned with the project's goals and priorities. Here's a summany 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 manageaeble ones, or adding more detail to Items as	team to avoid situations where decisions about including items mid-sprint would have to be taken. 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).	prioritize them according to business value and urgency, and ensure they align with the overall project goals. BHA plans to invite the IV&V team to participate in the backlog review meetings. 10/31/24 - It has been confirmed that CAMHD holds biweekly product backlog review meetings to review and adapt the product backlog. DDD communicated that they conduct collaborative reviews as needed and is yet to adopt regular dedicated product backlog review meetings. Iv&V recommends that DDD establish regular product backlog reviews as needed and is yet to adopt regular dedicated product backlog review meetings. Iv&V recommends that DDD establish regular product backlog review sessions to ensure consistent alignment with project goals and prioritize tasks effectively. 9/30/24 - IV&V continues to recommend the development and use of a RACI matrix to identify stakeholders who need to be involved in Sprint Reviews and product backlog reviews. BHA and IV&V reviewed the RACI matrix, with IV&V providing feedback. BHA continues to refine and develop the RACI matrix to clearly define the roles and involve the right stakeholders for successful project outcomes. IV&V will continue to discuss ways to use the RACI matrix in project work for product backlog reviews. EMA that they hold dedicated product backlog meetings, but IV&V has not yet been invited to attend or observe these sessions. 8/31/2024 - BHA has stated that before they change this process, they intend to utilize a RACI matrix to clearly define the roles. BHA and IV&V to review the RACI matrix to								

ID	ID Sh	hort Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
42	42 Go	overnance	Lack of effective governance and communication among	Ineffective governance and communication among	IVV recommends considering the following recommendations to establish	11/30/24 - IV&V is unaware of the progress towards	Project Management	Issue	Medium	Open		2/29/2024	Gautam	
			stakeholders can have significant negative impacts on a	stakeholders can significantly impact a project in several ways,	effective governance and communication among stakeholders:	mitigating this risk.	,						Gulvady	
1			project in several ways.	e.g., stakeholder disengagement, misunderstandings, conflict										
				and tension, misalignment of objectives, increased risks,	Create a Governance Structure: Implement a governance structure that	10/31/24 - The lack of productive communication between								
				unclear roles and responsibilities, and quality issues. An	defines decision-making processes, escalation procedures, and	DDD and CAMHD could lead to misunderstandings,								
				example on this project is the development and	accountability mechanisms. Clarify how decisions will be made, who has	confusion, unclear project priorities, and ultimately project								
				implementation of Golden Record/Master Data Management (MDM).	authority, and how issues will be resolved.	delays. BHA is considering developing a documented governance								
				(IMDIN).	Develop a Stakeholder Registry, RACI chart, and Stakeholder Engagement	process for restarting production systems. The project is								
				The lack of effective governance and communication among	Plan: Identify key stakeholders and develop a plan to engage them	considering various options for tracking cost of features								
				stakeholders can result in project delays, budget overruns, and	throughout the project lifecycle. Tailor communication strategies to address									
				decreased quality. It's essential for project managers and	the needs and preferences of different stakeholders, ensuring their active	these as "Big Rock" features).								
				stakeholders to prioritize clear communication and establish	involvement and support.									
				robust governance structures to ensure project success.		9/30/24 - There remain some communication challenges								
					Clearly define Roles and Responsibilities: clearly outlining the roles and	between stakeholders on project aspects such as defect								
					responsibilities of each stakeholder involved in the project, would ensure	tracking and reporting, and tracking and monitoring costs								
					that everyone understands their duties and how they contribute to the project's success.	related to Big Rock functionalities. IV&V recommends project teams maintain collaboration and information								
1					project a success.	sharing across stakeholder groups to ensure shared								
1					4. Encourage Open Communication and Feedback: Foster a culture of open	understanding in key project areas.								
1					communication and feedback where stakeholders feel comfortable sharing									
1					their thoughts, concerns, and suggestions. Encourage constructive dialogue	8/31/2024 - There remain some communication challenges								
1					and actively seek input to improve decision-making and problem-solving.	between stakeholders on project aspects such as defect								
					Keep stakeholders informed about project progress, milestones, and key	tracking and reporting, and tracking and monitoring costs								
					developments through regular updates and progress reports. Highlight	related to Big Rock functionalities. IV&V recommends								
					achievements, challenges, and any changes to the project plan or scope.	project teams maintain collaboration and information								
						sharing across stakeholder groups to ensure shared								
					5. Resolve Conflicts Promptly: Address conflicts and disagreements among stakeholders promptly and professionally. Encourage dialogue, active	understanding in key project areas.								
					listening, and compromise to find mutually acceptable solutions that	7/31/2024 - The divisions continue to collaborate on the								
					support project goals.	security assessment exercise. The draft security assessment								
					support project gouls.	report is due in October 2024.								
					6. Manage Expectations: Manage stakeholders' expectations by setting	·								
43	43 Sy	ystem performance		The existing DDD SharePoint documents and folders update	IV&V recommends doing an impact analysis, e.g., downstream impact.	11/30/2024 – BHA plans to launch an initiative to digitize	Release/Deployment	Issue	Medium	Open		4/30/2024	Gautam	
			folders was unacceptable.	process is intensive and the execution time was unacceptable -		approximately 2.5 million paper documents as part of a	Planning						Gulvady	
				this process took 11 calendar days to execute in production	IV&V recommends DDD puts on hold any development utilizing Power	broader effort to transition to a paperless system. While								
				with R4.4.	Automate for the performance issue encountered in production (marked	the SI has been working on enhancing the existing process								
				This process is part of several intense processes that update	"TBD" in finding #14 related to "SharePoint Bulk Flows still running"), related user stores, e.g., "Changes to DDD folders", and defects.	which previously required around 15 days to complete, the current SharePoint site cannot accommodate the								
				SharePoint documents and folders. The SI vendor	related user stores, e.g., Changes to DDD folders , and defects.	anticipated volume without a redesign of the SharePoint								
				recommended against doing this intensive process. However,	IV&V recommends evaluating other feasible options, e.g., leveraging	hierarchy.								
				no feasible alternative solutions were provided and this	SharePoint tools and best practices.									
	- 1			no feasible alternative solutions were provided and this process was implemented.		nierarchy. Considering the low frequency of the process (only once or twice per year) and the challenges posed by the SharePoint								
1				process was implemented.	SharePoint tools and best practices. A project issue should be opened to identify and manage the resolution of	Considering the low frequency of the process (only once or twice per year) and the challenges posed by the SharePoint limitations, DDD has decided to pause further development								
				process was implemented. BHA has the flexibility to refine and alter their SharePoint	SharePoint tools and best practices.	Considering the low frequency of the process (only once or twice per year) and the challenges posed by the SharePoint limitations, DDD has decided to pause further development on these improvements. However, if DDD encounters								
				process was implemented. BHA has the flexibility to refine and alter their SharePoint directory structure. As a result, per the SI vendor, the process	SharePoint tools and best practices. A project issue should be opened to identify and manage the resolution of	Considering the low frequency of the process (only once or twice per year) and the challenges posed by the SharePoint limitations, DDD has decided to pause further development on these improvements. However, if DDD encounters difficulties in executing the existing process, it will								
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45	Cost tracking for big rocks	The current process does not allow BHA to track actual	The current process does not allow BHA to track actual		11/30/2024 - During earlier discussions between BHA and	Project Management	Preliminary		Open		5/25/2024	Gautam	
		costs versus budgeted costs by feature/functionality.	costs versus budgeted costs of large functionality such as		IV&V, DDD emphasized the importance of tracking costs for		Concern					Gulvady	
			Provider Portal, Maui Wildfire Communication, Fast Health		major functionalities like the Provider Portal and FHIR. In								
		The current invoices from the System Integrator (SI) vendor	Interoperability Resources (FHIR) or the Golden Record (GR).		September 2024, IV&V proposed options for cost tracking,								
		lack sufficient details that would allow BHA to track actual	The absence of a clear process doesn't give insight into, e.g.,		including the use of Tags in Azure DevOps (ADO). BHA								
		costs versus budgeted costs by, e.g., features such as	how much of the budget has gone into developing		stakeholders suggested similar straightforward methods.								
		Provider Portal, Maui Wildfire Communication, FHIR and	functionality such as Provider Portal, Maui Wildfire		aligning with IV&V's recommendation. Since BHA is								
		Golden Record or by user story.	Communication, FHIR or GR functionality.		currently satisfied with the system integrator's (SI)								
		dolden kecord or by user story.	Communication, Frik of GK functionality.		adherence to the allocated budget for key functionalities,								
			D. in a second of the second o		BHA does not consider this as a risk. However, BHA has								
			By incorporating a clear process that would allow BHA to										
			monitor costs of large functionality, BHA can maintain better		raised significant concerns about Med-QUEST's ongoing								
			financial records and it would allow BHA to track actual versus		inability to track federal financial participation allotments								
			budgeted costs and answer questions, e.g., "how much money		and its claims submission process, issues that have								
			has been spent on developing Provider Portal, Maui Wildfire		persisted since the project's inception. These deficiencies								
			Communication, FHIR or Golden Record (GR) functionality?"		require considerable time to make corrections and may								
					require additional funding. Despite previous assurances of								
					procedural improvements, the problem remains								
					unresolved.								
					10/31/24 - Discussions about the options are ongoing.								
					These options also enable tracking the allocation of a								
1					release's fixed number of User Story Points (USPs) across	1	1	1	1		1	1	
							1	1	I		1	1	
					various categories or buckets by utilizing tags in Azure		1	1	I		1	1	
					DevOps (ADO). IV&V is concerned that the extensive use of		1	1	I		1	1	
					USPs to implement large-scale functionalities, such as FHIR,		1	1	I		1	1	
					may result in the removal or reduction of planned features,		1	1	I		1	1	
1					which could impact system effectiveness, lower user	1	1	1	1		1	1	
					engagement, and fall short of anticipated feature	1	1	1	1		1	1	
					expectations.		1	1	1	I	1	1	
					IV&V will continue to make recommendations regarding		1	1	I		1	1	
					ivav wiii continue to make recommendations regarding		1	1	I		1	1	
					tracking key items in this area to support the project.								
					9/30/24 - IV&V has provided options allowing BHA to track								
46	Defect management.	Neglecting the established defect management process		IV&V recommends to:	11/30/2024 - In recent meetings with DDD and CAMHD,	Project Management	Issue	Medium	Open		9/30/2024	Gautam	
	•	could lead to lost/forgotten defects, user frustration, and		1. Send communications to the project stakeholders to clarify the defect	IV&V discussed the issue of some defects reported to the	, ,					1	Gulvadv	
		could slow resolution of similar defects in the future.		management process and the importance of logging all defects.	Helpdesk via phone or other channels not being logged or		1	1	I		1	1	
		acrees in the retaile.		Take steps to assure current and new users understand how to report	addressed. DDD noted that staff find the process of logging		1	1	1	I	1	1	
				and/or log defects.	such defects cumbersome. However, DDD leadership has		1	1	1	I	1	1	
				3. Consider designating a defect management lead or champion to oversee									
				adherence to the process and assure all defects are logged.	to continue these discussions to determine process gaps								
				4. Keep stakeholders informed about defect status, priority, impacts, and	and the next steps.								
				resolution timelines. This could increase awareness of the importance of									
				logging defects.	10/31/24 - DOH leadership continues to express concerns								
				5. Discuss ways to improve the defect logging and management process	that not all defects are being logged.								
				with the SI and come up with a plan to improve.	0								
				with the 3rand come up with a plan to improve.									
47	Production restarts.	The lack of a governance process for restarting production		IV&V recommends BHA	11/30/24 - No progress has been made for this reporting	Project Management	Issue	Medium	Open		9/30/2024	Gautam	
		systems can impact service availability and frustrate end-		1. Develop standard procedures for system restarts, including pre-checks,	period.							Gulvady	
		users and hinder accountability.		step-by-step instructions, and post- restart verifications.								,	
				Require formal approvals before initiating a restart, especially for	10/31/24 - BHA is considering developing a documented								
				INSPIRE, and document all actions in a centralized system.	governance process for restarting production systems.								
					governance process for restarting production systems.								
				Define clear escalation paths for when restarts do not go as planned,									
				including identifying contacts for technical support and management			1	1	1	I	1	1	
				approval for additional interventions.			1	1	1	I	1	1	
				Automate Restart Procedures where possible.			1	1	I		1	1	
				5. The governance process is established, it should be effectively			1	1	1	I	1	1	
				communicated to the project team.			1	1	1	I	1	1	
				6. Provide stakeholders with a clear explanation of the reason for the			1	1	1	I	1	1	
				restart and the lessons learned, while documenting the restart details in th			1	1	1	I	1	1	
				defect record.			1	1	I		1	1	
				derect record.			1	1	1	I	1	1	
								Ь	<u></u>		<u> </u>	<u> </u>	
48	Data from external partners	Some AER project requirements are reliant on data provided	Delays in the delivery of this data could lead to project delays		11/30/2024 - Med-QUEST corrected the data with the	Project Management	Preliminary			Open	9/30/2024	Gautam	
	•	by external partners (e.g., Dept. of Human Services (DHS)).	and potentially increased costs.		missing Uniform Billing (UB) Claims Forms data. The project		Concern	1	I		1	Gulvady	
		, , , , , , , , , , , , , , , , , , , ,			is continuing the refinement of data and the machine			1	1	I	1	,	
					learning (ML) model. Med-QUEST previously did not		1	1	I		1	1	
1 1						ı	1	1	1		1	1	
1					provide claims data regularly but will now begin providing it	1	1	1	1		1	1	
					on a monthly basis.	1	1	1	1		1	1	
							1	1	1	I	1	1	
					10/31/24 - Med-QUEST provided historical claims for 2021,		1	1	I		1	1	
					2022, 2023 and some 2024 claims files on 10/16/2024. The		1	1	I		1	1	
					SI vendor identified some missing data (UB Claims forms for		1	1	I		1	1	
					hospital stays) and has made corrections to the missing		1	1	1	I	1	1	
							1	1	1	I	1	1	
					data. DDD is in the process of validating that the corrections	'l	1	1	I		1	1	
					are reliable. Access to recent monthly claims data was not		1	1	I		1	1	
					provided as originally planned, which has impacted the	1	1	1	1		1	1	
					project timeline. As a result, the go-live date has been	1	1	1	1		1	1	
					adjusted from January 2025 to February 2025. The SI vendor	r	1	1	1		1	1	
					has provided an updated tentative timeline.		1	1	I		1	1	
							1	1	1	I	1	1	
							1	1	I		1	1	
\Box		l						<u> </u>			l	1	

ID S	hort Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	