

KEITH A. REGAN COMPTROLLER KA LUNA HOʻOMALU HANA LAULĀ

CHRISTINE M. SAKUDA
CHIEF INFORMATION OFFICER
LUNA 'ENEHANA

### STATE OF HAWAI'I | KA MOKU'ĀINA O HAWAI'I DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES | KA 'OIHANA LOIHELU A LAWELAWE LAULĀ

### OFFICE OF ENTERPRISE TECHNOLOGY SERVICES | KE'ENA HO'OLANA 'ENEHANA

P.O. BOX 119, HONOLULU, HAWAII 96810-0119

May 15, 2025

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-Third State Legislature State Capitol, Room 409 Honolulu, Hawai'i 96813 The Honorable Nadine K. Nakamura Speaker and Members of the House of Representatives Thirty-Third 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 <a href="http://ets.hawaii.gov">http://ets.hawaii.gov</a> (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

April 1 – April 30, 2025

Final Submitted: May 14, 2025



### **Agenda**

**Executive Summary IV&V Findings & Recommendations** 

### **Appendices**

- A Rating Scales
- B Inputs
- C Project Trends
- D Acronyms and Definitions
- E List of Production Defects





The project continues to make good progress in enhancing the BHA Inspire system and has recently gone live with significant functionality with regards to Adverse Event Reporting (AER) to help them better track and address the quality of the service their vendors provide to their customers. The new AER modular solution is now live in production, and users are reporting positive feedback on the new functionality. The project hopes this modular solution will help them identify unreported adverse events more effectively.

Two high-severity post-production defects were resolved during this reporting period, including one related to an external Microsoft service error that was outside of the project's control. Despite early licensing challenges, the project onboarded a testing expert this month to repair, develop, and rewrite automated scripts and assess regression test processes, and is expecting to boost BHA testing productivity and improve system testing quality and velocity.

BHA is actively working to secure additional Business Analyst resources. Despite their current lack of resources, BHA continues to make steady progress in documenting some system workflows and operational procedures for help desk staff so they can better support their users.

The project is working to improve the governance process for production system restarts and has recently drafted a production system restart protocol that could help to ensure timely and effective communication to stakeholders and minimize system outages and disruptions. BHA has provided some key changes to the governance document, including adjustments to the advance notice period, provider notifications, and specific language preferences, which would further strengthen the protocol and enhance its effectiveness.

The project has reported progress in the improvement of some previously reported system performance issues. IV&V has closed a related finding (#33) as users are no longer reporting performance concerns.



Feb	Mar	Apr	Category	IV&V Observations				
G	G	G	Sprint Planning	IV&V was invited to attend the DDD Backlog Prioritization Meeting. Several key items were discussed, including Apple Health, Calculator, Provider, and Customer Portal Documents. While the meeting addressed these items, many of the backlog items still require estimation. DDD is currently working to complete these estimations. IV&V is reducing the risk rating from medium to low due to the progress made in backlog prioritization and ongoing efforts to complete estimations.				
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 this reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.				
Y	Y	Y	Test Practice Validation	Regression testing was successfully executed from 3/25/2025 to 4/2/2025. CAMHD executed manual and automated tests, while DDD conducted manual regression testing. In April 2025, the project onboarded a Tosca Automated Regression Testing SME. The overall approach for automated regression testing will be finalized by the end of April 2025, with execution continuing through May 2025. The INSPIRE project will have an updated suite of automated test scripts, along with knowledge transfer and training for the identified DDD staff.				



Feb	Mar	Apr	Category	IV&V Observations
Y	Y	Y	Release / Deployment Planning	Two high-severity post-production defects were resolved during this reporting period, including one related to an external Microsoft service error that was outside of the project's control.



Feb	Mar	Apr	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 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.
G	G	G	Project Performance Metrics	There are no project performance metrics to report for the April 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 April reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.



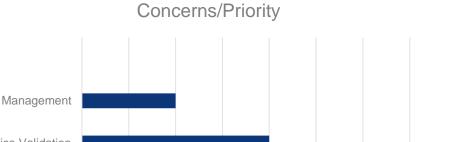
Feb	Mar	Apr	Category	IV&V Observations
Y	Y	Y	Project Management	The project continues to make good progress in enhancing the BHA Inspire system and has recently gone live with significant functionality with regards to Adverse Event Reporting (AER) to help them better track and address the quality of the service their vendors provide to their customers. The new AER modular solution is now live in production, and users are reporting positive feedback on the new functionality. The project hopes this modular solution will help them identify unreported adverse events more effectively.  The project is working to improve the governance process for production system restarts and has recently drafted a production system restart protocol that could help to ensure timely and effective communication to stakeholders and minimize system outages and disruptions. BHA has provided some key changes to the governance document, including adjustments to the advance notice period, provider notifications, and specific language preferences, which would further strengthen the protocol and enhance its effectiveness.



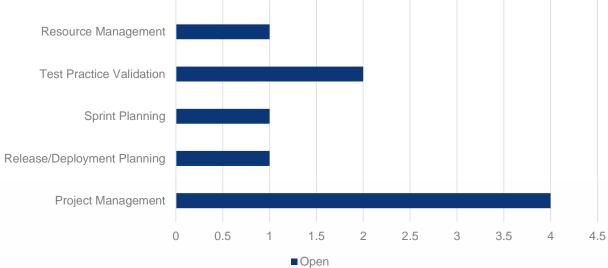
Feb	Mar	Apr	Category	IV&V Observations
Y	Y	Y	Resource	BHA is actively working to secure additional Business Analyst resources. Despite their current lack of resources, BHA continues to make steady progress in documenting some system workflows and operational procedures for help desk staff so they can better support their users.
			Management	Despite early licensing challenges, the project onboarded a testing expert this month to repair, develop, and rewrite automated scripts and assess regression test processes, and is expecting to boost BHA testing productivity and improve system testing quality and velocity.



As of the April 2025 reporting period, Nine (9) open findings were updated – Seven (7) Medium Issues, One (1) Medium Risk and One (1) Low Issue, spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, Project Management, Resource Management, assessment areas are currently open.



Open Risks/Issues by Category/Preliminary





### **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 (cont'd)**

#	Key Findings	Criticality Rating
	<b>Medium Risk:</b> The absence of separate dedicated product backlog review meetings can lead to unclear priorities, misalignment with stakeholders, inadequate refinement, and an increased risk of scope creep.	
	<b>Update</b> : IV&V was invited to attend the DDD Backlog Prioritization Meeting. Several key items were discussed, including:	L
41	- Apple Health	
	- Calculator	
	- Provider and Customer Portal Documents	
	While the meeting addressed these items, many of the backlog items still require estimation. DDD is currently working to complete these estimations. IV&V is reducing the risk rating from medium to low due to the progress made in backlog prioritization and ongoing efforts to complete estimations.	

Recommendations	Status
CAMHD and DDD implement a structured feedback management process with a prioritization framework to ensure that all new requests are thoroughly evaluated and aligned with project goals before being added to the backlog.	Open
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.	Open
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).	Open

### **Test Practice Validation**

#	Key Findings	Criticality Rating
	<b>Medium Issue:</b> As a result of regression testing not being consistently performed, production releases are breaking existing functionality in the production environment.	
	<b>Finding Update:</b> R4.11 Regression testing was successfully executed from 3/25/2025 to 4/2/2025. CAMHD executed both manual and automated tests, while DDD carried out manual regression testing.	M
2	In April 2025, the project onboarded a Tosca Automated Regression Testing SME. The overall approach for automated regression testing will be finalized by the end of April 2025, with execution continuing through May 2025. The INSPIRE project will have an updated suite of automated test scripts, along with knowledge transfer and training for the identified DDD staff.	

Recommendations	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.	Open
A balanced approach that combines manual and automated regression testing to ensure broad test coverage and flexibility.	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.	
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: Limited testing processes can lead to poor-quality software, project delays, and extended user acceptance testing.  Finding Update: R4.11 was successfully deployed on 4/3/2025, with Smoke Testing successfully completed on 4/4/25. A Mid-Sprint Deployment (MSD) was also performed on 4/18/25, which included four (4) User Stories. Additional unresolved production defects have been identified following the R4.11 deployment, and the project team is currently working to confirm the number of new defects. The project team continues to address other outstanding production defects (see Appendix E for details). The project team has enhanced smoke test scripts to provide more comprehensive coverage, including functionality such as the Provider Portal. To further strengthen quality assurance, the project onboarded a Tosca automated regression testing expert in early April 2025, with work scheduled to begin shortly thereafter. This regression testing effort is expected to span April and May 2025. The expert will focus on repairing, rewriting, developing Tosca scripts, and reinitiating automated testing efforts.	M

Recommendations	Status
Make efforts to implement a streamlined Root Cause Analysis (RCA) process to identify the causes of defects and prevent recurrence. Due to project resource constraints, propose timeboxing RCA efforts for each defect introduced into production. Timeboxing involves allocating a fixed period (e.g., 1-2 hours per defect or a set number of hours per week) for focused Root Cause Analysis (RCA) activities. These activities may include quickly gathering defect context, analyzing potential causes, and proposing corrective actions, all within the specified timeframe. Project PM(s) can oversee the tracking of corrective actions to ensure completion.	Open



### **Test Practice Validation (cont'd)**

Recommendations	Status
IV&V has requested an overview of the testing process, with a focus on process such as tracking test coverage and requirements traceability.	In Progress
A Stakeholder Register helps identify and understand all project stakeholders, ensuring needs are met and risks are managed through effective communication. A RACI matrix clarifies roles and responsibilities, improving collaboration, decision-making, and resource management, which are all critical for the success of IT projects.	In Progress
Identify stakeholders (output is Stakeholder Register) and develop a RACI matrix for testing.	In Progress
Review 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: R4.11 was successfully deployed on 4/3/2025, with Smoke Testing successfully completed on 4/4/25. A Mid-Sprint Deployment (MSD) was also conducted on 4/18/25, which included four (4) User Stories. One earlier high-severity defect was traced to a Microsoft service error and was resolved on 4/18/25. A second high-severity issue was later identified as deployment-related. While an RCA was documented and shared via email, the issue was not logged in Azure DevOps (ADO) as per standard procedures and was instead tracked informally. The team has acknowledged this and is taking steps to align more closely with established processes moving forward. Additional unresolved production defects have been identified following the R4.11 deployment, and the project team is currently working to confirm the number of new defects. Root Cause Analyses (RCAs) are not currently being consistently documented for production defects, and the project team acknowledges the value of establishing a formal RCA process, and further discussions are planned. Implementing a robust RCA process may help reduce defect recurrence by addressing unresolved or unidentified root causes. IV&V will continue to monitor the deployment quality of R4.11, FHIR, MSDs, and the AER solution to identify any deployment-related defects.	L
Rec	ommendations	Status
recu set n	ement a streamlined Root Cause Analysis (RCA) process to identify deployment causes and prevent rence. To manage resource constraints, consider timeboxing RCA efforts—e.g., 1–2 hours per defect or a number of hours weekly. Within this timeframe, focus on gathering context, analyzing causes, and proposing ective actions. Project PMs can track these actions to ensure follow-through.	Open
faste	project should consider automating deployments for resource savings, increased efficiency, consistency, or time to market, improved collaboration and reliability, scalability, version control integration, and rollback ability.	Open

### Release / Deployment Planning (cont'd)

Recommendations	Status
Implement a streamlined Root Cause Analysis (RCA) process to identify deployment causes and prevent recurrence. To manage resource constraints, consider timeboxing RCA efforts—e.g., 1–2 hours per defect or a set number of hours weekly. Within this timeframe, focus on gathering context, analyzing causes, and proposing corrective actions. Project PMs can track these actions to ensure follow-through.	Open
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.	Open
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.	Open
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

### Release / Deployment Planning (cont'd)

Recommendations	Status
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



#	Key Findings	Criticality Rating
	<b>Medium Issue:</b> Due to multiple quality concerns, the project may continue to face impactful system defects.	
14	<b>Finding Update:</b> R4.11 was successfully deployed on 4/3/2025, with Smoke Testing successfully completed on 4/4/25. A Mid-Sprint Deployment (MSD) was also performed on 4/18/25, which included four (4) User Stories.	M
	One of the two previously reported high-severity defects was resolved and deployed with R4.11. The second issue appeared to be related to a Microsoft service error and was resolved on 4/18/25, when Microsoft performed a rollback. Additional unresolved production defects have been identified following the R4.11 deployment, and the project team is currently working to confirm the number of new defects. The project team continues to address other outstanding production defects (see Appendix E for details). BHA is currently prioritizing higher-severity tasks, which have delayed the resolution of lower-priority issues; however, remediation efforts remain ongoing. IV&V will closely monitor R4.11, FHIR implementation, any Mid-Sprint Deployments (MSDs), and the AER solution.	
Recon	nmendations	Status
-	oject have discussions around utilizing tools such as SonarQube for continuous inspection of code quality tablishing a source code quality threshold to maintain high-quality, secure, and maintainable code.	Open
-	oject increases comprehensive testing prior to joint testing to reduce the burden on BHA testers and post-production defects.	Open
	vendor add a "Found In" column to the daily scrum file to indicate the environment where each defect entified.	In Progress
The SI	vendor provides the total number of defects in production and reports these numbers regularly to BHA.	In Progress

Recommendations	Status
Evaluate existing project staff skills and experience levels to ensure they meet BHA support requirements.	In Progress
Perform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.	In Progress



#	Key Findings	Criticality Rating
33	Low Issue: Performance bottlenecks with the INSPIRE production environment may result in low productivity and poor user experience.  Finding Update: The production system performance of both the AER solution and INSPIRE remained stable during this reporting period, with no issues reported. As a result, IV&V will close this finding.	Closed
Rec	ommendations	Status
5/20	V recommends: BHA execute a performance test during the development of R4.6 (planned completion 0/2024), identifying test cases and scenarios that include both DDD and CAMHD functionality, sactions/functionality that are performance intensive, e.g., calculator functionality	Closed
	duct load and performance testing for each release that has significant new features/functionality, e.g., culator-related transactions.	Open
Crea	ate a plan for comprehensive performance testing and address any performance bottlenecks.	Open
Hav	e the benchmark assessments done annually and implementation of Azure App Insights for Power Platform.	Open
	cute test scripts that measure the run-time for execution of long-running transactions. E.g., Calculator stionality/transactions and monitoring results over time.	Open



#	Key Findings	Criticality Rating
	<b>Medium Issue:</b> Lack of effective governance and communication among stakeholders can have significant negative impacts on a project in several ways.	M
42	<b>Update:</b> Communication between the various areas supporting the INSPIRE project has seen positive progress. One area that could benefit from further attention is the coordination and reporting of testing activities, which will help ensure even smoother collaboration moving forward. IV&V will continue monitoring governance for an additional month.	

Recommendations	Status
<b>Establish a mutual understanding of the contractual terms and conditions:</b> BHA and the SI have discussions to align on a shared understanding of the contractual terms and conditions for the INSPIRE project.	Closed
<b>Create a Governance Structure:</b> 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
<b>Develop a Stakeholder Registry, RACI Matrix, and Stakeholder Engagement Plan:</b> 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
<b>Resolve Conflicts Promptly:</b> 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
<b>Manage Expectations:</b> 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
<b>Evaluate and Adapt:</b> 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
	<b>Medium Issue:</b> Lack of oversight of the established defect management process could lead to lost/forgotten defects and user frustration and could slow the resolution of similar defects in the future.	M
46	<b>Finding Update:</b> IV&V has reviewed the documentation outlining the Help Desk process. IV&V continues to observe increased project focus on both the Help Desk and defect management processes and will monitor adherence to these processes while providing feedback and recommendations based on best practices. Meanwhile, BHA is reviewing the previously provided Help Desk documentation and considering adopting and enforcing the outlined defect management procedures.	

Recommendations	Status
<ol> <li>IV&amp;V recommends to:</li> <li>Send communications to the project stakeholders to clarify the defect management process and the importance of logging all defects.</li> <li>Take steps to assure current and new users understand how to report and/or log defects.</li> <li>Consider designating a defect management lead or champion to oversee adherence to the process and assure all defects are logged.</li> <li>Keep stakeholders informed about defect status, priority, impacts, and resolution timelines. This could increase awareness of the importance of logging defects.</li> <li>Discuss ways to improve the defect logging and management process with the SI and come up with a plan to improve.</li> </ol>	Open



#	Key Findings	Criticality Rating
47	<ul> <li>Medium Issue: The lack of a governance process for restarting production systems can impact service availability and frustrate end-users and hinder accountability.</li> <li>Finding Update: BHA is continuing with the development of a document describing a communication protocol. DDD has provided some key changes, including adjustments to the advance notice period, provider notifications, and specific language preferences, which would further strengthen the protocol and enhance its effectiveness.BHA shared the draft document with DDD and IV&amp;V for initial review.</li> </ul>	M

Recommendations	Status
<ol> <li>IV&amp;V recommends BHA</li> <li>Develop standard procedures for system restarts, including pre-checks, step-by-step instructions, and post-restart verifications.</li> <li>Require formal approvals before initiating a restart, especially for INSPIRE, and document all actions in a centralized system.</li> <li>Define clear escalation paths for when restarts do not go as planned, including identifying contacts for technical support and management approval for additional interventions.</li> <li>Automate Restart Procedures where possible.</li> <li>The governance process is established, it should be effectively communicated to the project team.</li> <li>Provide stakeholders with a clear explanation of the reason for the restart and the lessons learned, while documenting the restart details in the defect record.</li> </ol>	Open



### **Resource Management**

#	Key Findings	Criticality Rating
	<b>Medium Issue:</b> A shortage of BHA project resources could lead to reduced productivity and project delays.	
34	<b>Finding Update:</b> To address a few of the resource challenges the project has faced, in early April 2025, DDD onboarded a Tosca Automated Regression Testing Subject Matter Expert (SME). To support a successful onboarding, DDD provided system demos, training materials, and facilitated collaboration with the CAMHD and SI team. Internal DDD resources have been identified for knowledge transfer related to regression testing. This will enable an effective transition for maintaining the automated testing suite. Additionally, CAMHD and DDD are actively working to identify and secure resources to support the Business Analyst roles.	M

Recommendations	Status
Utilizing peer-to-peer knowledge sharing, allowing experienced team members to informally share their expertise during team meetings. Additionally, creating internal documentation that outlines best practices and processes for developing security policies would serve as a self-service resource for the team.	Open
DDD and CAMHD have further discussions to optimize resource utilization between the two divisions.	Open
BHA should explore options for offloading project team members' daily responsibilities to other staff.	In Progress



### **Resource Management (cont'd)**

Recommendations	Status
BHA should work quickly to create new positions and receive State approval.	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 fulfill the functions for 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 Trends:				
Velocity	<ul><li>project</li><li>Verify the project is</li></ul>	<b>April:</b> R4.11 was deployed to production on 4/3/2025 and a mid-sprint deployment with four (4) User Stories followed on 4/18/2025.	Release	Planned velocity	Actual velocity	Percentage attained	
	on pace to hit the total target number of US/USP	0001 0101100 101101100 011 1/1 10/20201	R4.11	111	103	93	

### Phase 4 Releases Cumulative Variance

Release	Planned velocity	Actual velocity	Cumulative variance
R4.1	309	114	-195
R4.2	85	174	-106
R4.3	85	124	-67
Golden Record Mid-Sprint (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	71	-119
R4.10	111	162	-68
R4.11	<b>1</b> 11	103	-76



### **Project Performance Metrics (cont'd.)**

Metric	Description	IV&V Observations	IV&V Updates
Defect Metrics	<ul> <li>Understand and track the following:</li> <li>Defects by category (bug fixes)</li> <li>USPs assigned to defects in a release vs. USPs assigned to planned US in a release</li> </ul>	April - Velocity was estimated at 111 USPs for R4.11, 103 R4.11 USPs were promoted to production on 4/3/25. 23 of the 103 USPs were for defect fixing.  •78% of the USPs were associated with user stories and requests.  •22%* of the total USPs were associated with defects encountered during the release effort or pulled from the defect backlog.	The defect percentage for April was 22%* which is over the target range of 20% or less of all USPs promoted to production.

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 A**IV&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
<b>B</b>	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be implemented as soon as feasible.
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 April 2025 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
- DOH BHA IT Solution Project Steering Committee
- 10. US# Testing & Request Items
- 11. AER Analytics Bi-weekly Meeting

### Eclipse IV&V® Base Standards and Checklists



### Artifacts reviewed during the April 2025 reporting period:

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

# **Appendix C: Project Trends**

# **Appendix C Project Trends**

	July	August	September		November	December		February		April
User Story Validation										
Test Practice Validation										
Sprint Planning Release /										
Deployme nt Planning										
OJT and KT Sessions Targeted										
Project Performan										
Organizati onal Maturity										
Metrics General Project Manageme nt										
Resource Manageme nt										
Total Open Findings	12	12	14	14	14	14	14	11	10	9
Issue - high	0	0	0	0	0	0	0	0	0	0
Issue - medium	8	8	10	10	10	10	10	7	9	7
lssue -	1	1	1	1	1	1	1	3	0	0
Risk - high Risk -	0	0	0	0	0	0	0	0	0	0
medium_	2	2	2	2	2	2	2	1	1	1
Risk - low	0	0	0	0	0	0	0	0	0	1
Preliminar y Concern	1	1	2	2	2	2	2	0	0	0



**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
DDI	Design Development Implementation
DDD	Developmental Disabilities Division
SI	System Integrator
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
MQD	Med-QUEST Division
CMS	Centers for Medicare & Medicaid Services
AER	Adverse Events Report



# **Appendix E List of Production Defects**

ID - Work -	Divisi -	Title	State	▼ Prior ▼ Severity ▼	Found -T	Created Date -	RCA Categories 🔻
30634 Bug	CAMHD	CAMHD Bug - Credentialing documents not copied into PROD during Data Migration	Completed in QA_Tes	st 3 3 - Medium	PROD	2/16/2021 15:45	j
30726 Bug	DDD	Portal signature fields do not accept touchscreen input	Evaluated_On Hold	2 3 - Medium	PROD	9/17/2021 9:07	7
33550 Bug	CAMHD	Bug: "Progress Notes Associated to Invoices" page not loading	New	3 3 - Medium	PROD	3/31/2023 17:11	
33841 Bug	DDD	Bug - Calculator 3.0 - Users able to schedule service past ISP end date again	Pending Approval	3 3 - Medium	PROD	5/17/2023 8:22	2
34110 Bug	DDD	Bug - Individual Budget unlinking from Service Authorizations	Pending Approval	2 3 - Medium	PROD	7/27/2023 15:40	
34238 Bug	CAMHD	BUG - Assessment Entity Initial Save Time - IMHE	Evaluated_On Hold	2 3 - Medium	Prod	8/17/2023 2:33	3
34242 Bug	DDD	Bug - Case Merge - Contact Notes not merging; Permissions error	New	3 3 - Medium	PROD	8/17/2023 8:44	Į.
34969 Bug	DDD	DDD - Duplicate Provider Plans	Completed in QA_Tes	st 1 3 - Medium	PROD	2/23/2024 5:58	3
		DDD - Cal3.0 - BiMonthly Recurrence authorization not taking into account Unit of					
35278 Bug	DDD	Service	Pending Approval	2 3 - Medium	PROD	6/3/2024 11:53	3
35317 Bug	DDD	DDD - Plan Services with no Provider Plan	Active	2 3 - Medium	PROD	6/24/2024 9:06	3
35450 Bug	DDD	DDD - Calculator not printing correctly	Pending Approval	2 3 - Medium	PROD	7/26/2024 8:36	3
36383 Bug	DDD	DDD - Calculator problem with paid base and add on	New	2 3 - Medium	PROD	9/26/2024 9:19	
36854 Bug	DDD	DDD - Inspire - backed up ISP in the wrong place	Ready for Code Review	w 1 3 - Medium	PROD	10/31/2024 3:13	3
		Both - "On deactivation of Plan Service - deactivate related Provider Plan Service Flow"					
37186 Bug	Both	issue	Completed in QA_Tes	st 1 3 - Medium	PROD	12/6/2024 9:10	Environmental Discrepancies
37663 Bug	DDD	DDD - Data Update to Account for Missing Provider Plan Value on Plan Service	Completed in QA_Tes	st 1 3 - Medium	PROD	1/23/2025 8:01	
37694 Bug	DDD	DDD - TCM batch file date is different in PROD from other environments	Pending Approval	2 3 - Medium	PROD	1/29/2025 8:25	5
37733 Bug	DDD	DDD - Incorrect Columns displaying on Provider Plan subgrid (Action Plan tab of ISP)	Evaluated_On Hold	1 3 - Medium	PROD	2/5/2025 5:37	7
37791 Bug	DDD	DDD - CIT Referral: Create Document Location Flow Failures	Pending Approval	2 3 - Medium	PROD	2/10/2025 9:30	
37793 Bug	DDD	DDD - ISP Report Generation Issues	New	2 3 - Medium	PROD	2/10/2025 10:06	3
38391 Bug	DDD	DDD - Inspire AER - RN signature disappears	Completed in QA_Tes	st 2 3 - Medium	PROD	2/27/2025 8:27	,
38496 Bug	DDD	DDD - CMU Supervisor DashboardLOC subgrid is blank	Completed in QA_Tes	st 1 3 - Medium	PROD	3/5/2025 4:24	Design Errors
38529 Bug	DDD	DDD - AER Remediation Plan of Action Print Name field	Completed in QA_Tes	st 2 3 - Medium	PROD	3/10/2025 3:31	Design Errors
38625 Bug	DDD	DDD - Calculator mid-year changes not saving	New	2 3 - Medium	PROD	3/14/2025 8:14	Į.
		CAMHD - Remove single quotes in texts in Provider Referral "Selected for Service":					
39412 Bug	CAMHD	Creation of Sub-folders in Provider Portal Document flow	Completed in QA_Tes	st 2 3 - Medium	PROD	3/20/2025 10:20	
39797 Bug	DDD	DDD - AER entry error when Provider tried to submit the AER	New	2 3 - Medium	PROD	4/16/2025 5:29	





**Solutions that Matter** 

Segment of the control of the contro	ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner	
registrative registers of the control of the contro	2	Regression testing	As a result of	R3.3 introduced a	To ensure effective Tosca testing, it is	4/30/25 - R4.11 Regression testing was successfully executed from 3/25/2025 to 4/2/2025. CAMHD executed both	Test Practice	Issue	Medium	Open			12/31/2019	Gautam Gulvady	
Section Sectio							Validation			'					
The control of the co			being consistently	deprecated features in	unified resource allocation strategy. Given	In April 2025, the project onboarded a Tosca Automated Regression Testing SME. The overall approach for									
Service of the control of the contro															
Secretary No. 10 Across the control of the control			p												
sections of the control of the contr						for the identified DDD staff.									
And standard lasting and stand															
Leading and the company of the compa															
Service And Controlled Service C			environment.												
special files of the control f															
More any market of the control of th															
with an own filter.  In a contraction of the process of the proces															
Interpretation of a principle of any file of the control of the co															
Section of the Content of the Cont															
For interest the control of the cont						Start to ensure they can enectively maintain and apaste the scripts going forward.									
and continued to the continued and approximately continued to the continue						2/28/25 - Regression Testing for R4.11 is scheduled from 3/25/2025 to 4/2/2025. CAMHD will perform both manual									
service of the control of the contro					<b>3</b> - <b>3</b> - <b>3</b>										
ary such financians of the company o					2. A balanced approach that combines										
and deprecate that will desire the process to the process to the control of the process to the p				used to determine	manual and automated regression testing	work set to begin on 3/10/2025. The SI has uploaded and executed one regression test case for the AER project and									
## discord from the complete of the complete o				why such functionality	to ensure broad test coverage and	is preparing additional regression test scripts with estimated completion before the R4.11 go-live.									
with 19 Min in Justice of Ministry and Section of Secti				was deprecated but	flexibility.										
Social control of Social designation of the				will discuss further		1/31/25 - Regression Testing for R4.10 is scheduled from 1/29/2025 to 2/5/2025. One defect (view on the DDD									
minimum or information south the status of regression or indirect south the status of regression or indirect south the status of regression or individual to the status of				with BHA in January	3. Having board(s) in Azure DevOps or a	supervisor dashboard) has come out of regression testing. CAMHD will conduct a mix of manual and automated									
in white control of regression testing and control of regression testing are controlled on the control of the c				2020.	document on SharePoint that provides	testing, while DDD will focus on manual regression testing. To support future Phase 4 releases beyond R4.10, the									
and transproscy to the case, and transproscy to the properties to contact regional section of a properties of the proper															
up cover districts selection for the contraction of				validation of											
Code quality  Code						project, the SI is preparing to conduct regression testing on AER functionality.									
a reference pounded.  1. We recommend received the County of productions.  2. Outs of multiple youthy concerns the control of the county of th					and stakeholders.										
sub-white department on your invalidation of the productions of position for the production of the pro					1										
Social productions and advantage and advanta															
And the multiple of the common to the properties of the common to the co															
Local quality occurrent. The interest of the project may ordinary concern. The interest of the project may ordinary occurrent the project may occurrent in project may occur the project m															
project may continue to face impactful a force of the two provinced profess, ensuring a force in logarital part of the face of application of the two provinced production defects in the face of application of a	14	Code quality	Due to multiple	System defects			Project Management	Issue	Medium	Open			9/30/2020	Gautam Gulvady	
species designed. Since the constitution of th			quality concerns, the	identified in August	1. Closer collaboration between divisions	Mid-Sprint Deployment (MSD) was also performed on 4/18/25, which included four (4) User Stories.									
system disfects.  In secret individually regarding the seventy and provincy of production defects, an individual or provincy of production defects, and the production of expects and the province period.  In committee of the production of expects and the production of expects			,,	that affected claims	to review reported defects, ensuring a	One of the two previously reported high-severity defects was resolved and deployed with R4.11. The second issue									
were individually addressed during priorid. Well writed that the properties period. Well vinest that the Source Code for continuous inspection of the continuous inspection of code partially and establishing a source code of colines. Overall, the properties of the continuous inspection of code partially and establishing as source code of colines. Overall, the Project Team has responded with a commitment to committee to the committe															
addressed during this reporting period. You've notes that there is a conscious of the production of these production of detects (see Appendix E for details). Bits lace under the production of the production of these production of these production of the production			system defects.												
reporting period.  (WW notes that period continuous inspection of some priority issues; however, remediation efforts remain ongoing WW will obselve months of all period period of egality and establishing a source code quality and established to the code.  a limited number of claims, Overall, the Project train of the project train of the source and project to code all defects reporting the project provincing the project to school; The ASR solution is in production. The project train of the source and project provincing the project to school; The ASR solution is progress to bring discoused in register meeting the second of a source of the project train of the source of the so					priority of production defects.										
osor-facilité or continuous inspection of sone remains ou done de justifice d'autorité par destabliching sour destabliching sour destabliching sour destabliching sour destabliching sour des de l'autorité de l'autorité d'autorité d'															
so one remaining defects till beding selection of the solution of the solution to ensure stability, audictly resolve issues, and help users adjust to the new system (also incomo as Hypercare), help-percare ended on 37/12/35 and institute mumber of claims. Overall, the Project Trans not project time research or claims. Overall, the Project Trans not project time research or claims. Overall, the Project Trans not project time research or claims. Overall, the Project Trans not project time research or claims. Overall, the Project Trans not project time research or claims. Overall, the Project Trans not project time research or claims. Overall, the Project Trans not project time research or claims. Overall, the Project Trans not project time research (all project time research (all project project project time research (all project pro															
defect still being evaluated that affects a limited number of claims. Overall, the Project Team has responded with a domination in the Project Team has responded with a domination in the Project Team has responded with a domination of the Project Team has a commitment to increase project quality and is in the project grainity and is in the project teaminating processes. These currently includes teating provides the total number of the delay currently includes. The AR 11 gold was exploited for 4/3/25. Ph. 10 was deployed to production on 7/3/25. The AR 13 gold was deployed from the Manager form one period to the next. Conducting System Integration (5.7). The Project programmed from the project production for the endower project quality and six in the provides the total number of the project team						closely monitor k4.11, FHIK implementation, any Mid-Sprint Deployments (MSDS), and the AEK solution.									
evaluated that affects scure, and maintainable code.  a limited number of claims. Overall, the Project increases comprehensive protection of the claims of the Project increases comprehensive protection of the Claims. Overall, the Project increases comprehensive protection of the Claims of the Project increases comprehensive protection of the Claims of the Project increases comprehensive protection of the Claims of the Project increases comprehensive protection of the Claims of the Project increases comprehensive protection of the Claims of the Project increases and reduce post-protection of the Claims of the Project increases and reduce post-protection of the Claims of the Project increases of identifying in provements to associated testing processes. These currently include:  a for the project increases comprehensive to the daily scure life to indicate the process of identifying in provements to associated testing a processes. These currently include:  a for the project increases comprehensive to the daily scure life to indicate the provided in the project project in the project project in the Claims of the Project in the Claims						2/21/25. The AER colution is in production. The project team closely manitared the colution to ensure stability.									
a limited number of claims. Overall, the Project Increases comprehensive Project Team has a responded with a commitment to increase project quality and is in the process of identifying improvements to a sociated testing provements. To the deally scrum file to indicate the environment where each defect was a sociated testing processes. These currently include.  Since you can be production defects was defented by the process of identifying processes. These currently include.  The project increases comprehensive testing provided until production defects.  The project increases comprehensive testing provided until production defects.  The project increases comprehensive testing provided until production defects.  The project is prioritizing the product backlog. The AER salutions progress is being discussed in regular method until projects in the deployment of R4. 10 on 1/6/25, the project has identified additional unresolved production defects, including 1 high-sevently defect, in Azuro Evolgo, (ADO) (see Appendix E for details), BHA is prioritizing higher-priority tackers the deployment of R4. 10 on 1/6/25, the project has identified additional unresolved production defects, including 1 high-sevently defect, in Azuro Evolgo, (ADO) (see Appendix E for details), BHA is prioritizing higher-priority tackers and the deployment of R4. 10 on 1/6/25, the project has identified additional unresolved production defects, including 1 high-sevently and will closely more defects. The R4. 11 go-live is scheduled for a/3/255. IVAV continues to express concern about code quality and will closely more defent of the deployment of a horth with a workshore of the defent of a horth with a workshore of the defent, and a high-sevently defect, in Azuro Evolgo, (ADO) (see Appendix E for detail), BHA is prioritizing between the feets, and the deployment of the deployment of the deployment of the deploym															
claims. Overall, the 8-roject increases comprehensive responded with a responded with a commitment to increase project quality and is in the process of identifying improvements to associated testing processes. These currently include:  **Ref 10 over 10 o					secure, and manitumatic code.										
responded with a commitment to increase project for any state on BM tastes and reduce post burdon on BM tastes and reduce post burdon to BM tastes and reduce post production defects.  Increase project quality and is in the process of identifying improvements to a associated testing processes. These currently include:  Performing Revenue  Neutrality Fasting to ensure specified revenue streams are largely unchanged from one period to the next. Conducting System integration  Testing, User  The FA 10 on 2/6/25, the project has identified additional unresolved production defects. In Azure DevOgo (ADO) (see Appendix E for details), BMA is prioritizing higher-priority tasks, which has delayed the resolution of these lower-pointry (sause, although remediation efforts are underway, the project has identified additional unresolved production defects, in cluding 1 high-sevently defect, in Azure DevOgo (ADO) (see Appendix E for details), BMA is prioritizing higher-priority tasks, which has delayed the resolution of these lower-pointry (suce, although remediation efforts are underway.  The FA 11 go-live is scheduled for 4/3/25. NBX continues to express concern about code quality and will closely monitor RA 10, FIR, any MSDs, and the AER solution.  The FA 11 go-live is scheduled for 4/3/25. NBX continues to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to express concern about code quality and will continue to exp					3. The project increases comprehensive		1	1							
responded with a commitment to increase project increase							1	1							
commitment to increase project. Including 1 high-seventy defect, in Auze DevOps (ADO) (see Appendix E for details), BHA is prioritizing higher-priority tasks, which has delayed the resolution of these leower-priority (sues, although remediation efforts are underway. The RA.11 go-live is scheduled for 4/3/25. W&V continues to express concern about code quality and will closely monitor RA.10, FHIR, any MSDs, and the AER solution.  122/8/25 - RA.10 was deployed to production on 2/6/2025. That same day, users reported a critical defect, prompting the deployment of Ab.10, the project has recorded five additional unresolved production defects: two high of defects in production and reports these currently include:  228/25 - RA.10 was deployed to production on or 2/6/2025. That same day, users reported a critical defect, prompting the deployment of Ab.10, the project has recorded five additional unresolved production defects: two high of defects in production and reports these severity, via more low severity, and no low severity, and no low severity, in Acrure DevOps (ADO) —(see Appendix E for details). BHA is prioritizing higher-priority tasks, which has delayed addressing these lower-priority defects, though remediation of the next. Conducting System integration Testing. User underway. Additionally, the AER solution went live on 2/6/2025. User vernains concerned about code quality and will concerned a critical defect, prompting the deployment of AB.10, the project has recorded five additional unresolved production defects: two high of defects are underway. Additionally, the AER solution.  22/8/25 - RA.10 was deployed to production of efects: two high of defects in production and reports the severity, two medium severity, and no low severity, in Acrure DevOps (ADO) (see Appendix E for details), BHA is provided in the AER solution.  22/8/25 - RA.10 was deployed to production of efects to the control of the AER solution.  42/8/25 - RA.10 was deployed or production of efects to the control of the AER solution.  42/8/25 -				,	01		1	1							
increase project quality and is in the process of identifying improvements to associated testing by processes. These currently include. S. The SI vendor add a "Found in" column process of identifying processes. These currently include. S. The SI vendor provides the total number Performing Revenue Neutrality Testing to ensure expected revenue streams are largely unchanged from one period to the next. Conducting System Integration Testing, Use System Integration Testing, Use Testing,				commitment to				1							
monitor R4.10, FHIR, any MSDs, and the AER solution.  monitor R4.10, FHIR, any MSDs, and the AER solution.  monitor R4.10, FHIR, any MSDs, and the AER solution.  2/28/25 - R4.10 was deployed to production on 2/6/2025. That same day, users reported a critical defect, prompting the deployment of a hotfix with a workaround on 2/7/2025.  5. The SI vendor provides the total number of defects in production and reports these numbers regularly to BHA.  6. The project evaluate existing project aslaf skills and experience level to ensure were deployed the same day. The R4.10 go-live is scheduled for 4/3/2025. IVRV remains concerned about code quality and will continue to monitor R4.10, the project has a fine deployment of R4.10 go-live is scheduled for 4/3/2025. The R4.10 go-live is scheduled for 2/6/2025. Currently, 25 unresolved production defects remain, including (refer to Appendix E for a list of unresolved production defects. The SI miditated that BHA prioritizes higher-priority asks, delight project that ask					1		1	1							
improvements to associated testing processes. 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  environment where each defect was associated testing go associated testing processes. These currently include: Performing Revenue Neutrality Testing to ensure expected freevenue streams are largely unchanged from one period to the next. Conducting System Integration Testing, User  environment where each defect was identified.  2/28/25 - R4.10 was deployed to production on 2/6/2025. That same day, users reported a critical defect, prompting the deployment of R4.10, the project has recorded five addition on 2/7/2025.  5. The SI vendor provides the total number of defects in production and reports these severity, van due no we sevently, in Azure Devotops (ADO)—(see Appendix E for details). BHA is prioritizing higher-priority tasks, which has delayed addressing these lower-priority defects, though remediation efforts are underway. Additionally, the AER solution.  6. The project evaluate existing project staff skills and experience level to ensure they meet BHA support requirements.  1/31/25 - The R4.10 go-live is scheduled for 2/6/2025. Currently, 25 unresolved production defects: two high of effects, though remediation efforts are underway. Additionally, the AER solution.  8/31/25 - The R4.10 go-live is scheduled for 2/6/2025. Currently, 25 unresolved production defects remain, including (refer to Appendix E for a list of unresolved production defects remain, including (refer to Appendix E for a list of unresolved production defects two high of effects from defects, though remediation of lower-priority defects. Efforts are underway 1.7/2025.  8/2/8/25 - R4.10 was deployed to production of 2/6/2025. Live high is deployed to production defects: two high is everify, two high is everify, two medium severity, and no live for defaults, though is everify to the for defaults, and is eve				quality and is in the			1	1							
associated testing processes. These currently include:  S. The SI vendor provides the total number of defects in production and reports these numbers regularly to BHA.  Between the performing Revenue Neutrality Testing to ensure expected revenue streams are largely unchanged from one period to the next. Conducting System Integration  Testing, User  Identified.  2/28/25 - R4.10 was deployed to production on 2/6/2025. That same day, users reported a critical defect, prompting the deployment of a bottix with a workaround on 2/7/2025.  1/28/25 - R4.10 was deployed to production on 2/6/2025. That same day, users reported a critical defect, prompting the deployment of a bottix with a workaround on 27/2025.  1/28/25 - R4.10 was deployed to production on 2/6/2025. That same day, users reported a critical defect, prompting the deployment of a bottix with a workaround on 27/2025.  1/28/25 - R4.10 was deployed to production on 2/6/2025. That same day, users reported a critical defect, prompting the deployment of a bottix of 84.10, the project has recorded five additional unresolved production defects: two high severity, which as delayed addressing these lower-priority defects, though remediation efforts are underway. Additionally, the AER solution on efforts are underway. Additionally the AER solution on efforts are underway. Additionally the AER solution on efforts are underway. Additional unresolved production defects: two high severity, which as delayed addressing these lower-priority defects, though remediation to environity defects, though remediation to every priority defects, though remediation to every priority defects, though re				, , 0		monitor R4.10, FHIR, any MSDs, and the AER solution.	1	1							
processes. 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  S. The SI vendor provides the total number (Following the deployment of a hotfix with a workaround on 2/7/2025. If be deployment of a hotfix with a workaround on 2/7/2025. If be deployment of a hotfix with a workaround on 2/7/2025. If be deployment of a hotfix with a workaround on 2/7/2025. If be deployment of R4.10, the project has recorded five additional unresolved production defects: two high of defects, though remediation efforts are underway. Additionally, the AER solution went live on 2/1/2025 and a Mid-Sprint Deployment (MSD)  with 2 new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV8V remains concerned about code quality and will continue to monitor R4.10, FHIR, any MSDs, and the AER solution.  ### 13/11/25 - The R4.10 go-live is scheduled for 2/6/2025. Currently, 25 unresolved production defects: two high of defects through remediation efforts are underways. Additional unresolved production defects: two high of defects through remediation and more portive and with a workaround on 2/7/2025.  ### 14 Explorite is a production and reports these severity, two medium severity, and one lower-priority defects. Efforth a MIR is priority asks, which has delayed addressing these lower-priority defects. Efforth a MIR is priority asks, which has delayed addressing these lower-priority defects. Efforth a MIR is possible to testing and a Mid-Sprint Deployment (MSD)  with 2 new items are deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV8V remains concerned about code quality and will continue to monitor R4.10, FHIR, any MSDs, and the AER solution.  #### 14 In the priority defects. Efforth a MIR is priority defects. Efforth a MIR is priority defects. Efforth a MIR is priority defects. Efforth a different several and more portional to the every invention of the p							1	1							
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  1. The project perform CAMHD revenue negation of the performing the performing the deployment of R4.10, the project has recorded five additional unresolved production defects: two high severity, two medium severity, and one low severity, in Azure DevOps (ADO)—(see Appendix E for details). BHA is prioritizing higher-priority tasks, which has delayed addressing these lower-priority defects, though remediation efforts are underway. Additionally, the AER solution went live on 2/21/2025 and a Mid-Sprint Deployment (MSD) with 1 new Agreement and the prioritizing higher-priority tasks, which has delayed addressing these lower-priority defects, though remediation efforts are underway. Additionally, the AER solution went live on 2/21/2025 and a Mid-Sprint Deployment (MSD) with 2 new Agreement and Priority tasks, which has delayed addressing these lower-priority defects, though remediation efforts are underway. The R4.11 go leve is exceuded of or 4/3/2025. V&V remains concerned about code quality and will continue to monitor R4.10, FHIR, any MSDs, and the AER solution  1/31/25 - The R4.10 go-live is scheduled for 2/6/2025. Currently, 25 unresolved production defects: two high servity, two medium severity, in Azure DevOps (ADO)—(see Appendix E for details). BHA is prioritizing higher-priority tasks, which has delayed addressing these lower-priority tasks, which has delayed addressing these					identified.		1	1							
Performing Revenue Neutrality Testing to ensure expected revenue streams are largely unchanged from one period to the next. Conducting System Integration Testing, User Testing, User  Performing Revenue Neutrality Testing to ensure expected revenue streams are largely unchanged from one period to the next. Conducting System Integration Testing, User  Performing Revenue Neutrality Testing to enumbers regularly to BHA. Severity, two medium severity, and nole low severity, in Azure DevOps (ADO)—(see Appendix E for details). BHA is prioritzing flisher-priority tasks, which has delayed addressing these lower-priority defects, though remediation reforts are underway. Additionally, the AER solution went live on 2/12/1/2025 and a Mid-Sprint Deployment (MSD) with 2 new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV&V remains concerned subtraction of the details). BHA is prioritzing flisher-priority defects, though remediation tegrotic on 2/12/1/2025 and a Mid-Sprint Deployment (MSD) with 2 new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV&V remains concerned subtraction of the details, BHA is prioritzing flisher-priority defects, though remediation tegrotic on 2/12/1/2025 and a Mid-Sprint Deployment (MSD) with 2 new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV&V remains concerned subtraction of the AER solution.  1/3/125 - The R4.10 go-live is scheduled for 2/6/2025. Currently, 25 unresolved production defects remain, including (refer to Appendix E for a list of unresolved production defects remain, including terms of the AER solution.  1/3/125 - The R4.10 go-live is scheduled for 2/6/2025. Currently, 25 unresolved production defects remain, including terms of the AER solution.  1/3/125 - The R4.10 go-live is scheduled for 2/6/2025. Currently, 25 unresolved production defects remain, including terms of the AER solution.  1/3/125 - The R4.10 go-live is scheduled for 2/6/2025. Use N remains concerned to subtraction t					Laaraaaaaa		I	I							
Neutrality Testing to ensure expected frevenue streams are largely unchanged from one period to the next. Conducting System Integration 7. The project perform CAMHD revenue Festing Nor Perform CAMHD revenue Festing Nor Perform Camera							1	1							
ensure expected revenue streams are largely unchanged from one period to the next. Conducting System Integration Testing, User enutrality fisca balance testing on a meutrality fisca balance testing on a neutrality fisca balance testing on a feet of the service							1	1							
revenue streams are largely unchanged from one period to the next. Conducting System Integration Testing. User enutrality fiscal balance testing on a meutrality fiscal balance testing on a meutrality fiscal balance testing on a feet of the period to the next. Conducting System Integration Testing. User enutrality fiscal balance testing on a feet of the project valuate existing project with 2 new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV&V remains concerned with 2 new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV&V remains concerned solution. The All project period to monitor R4.10 go-live is scheduled for 4/3/2025. IV&V remains concerned solution of the AER solution. The All project period to monitor R4.10 go-live is scheduled for 4/3/2025. IV&V remains concerned solution of the AER solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution deposition of the AER solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution of the AER solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution of the AER solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution of the AER solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution of the AER solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution of the AER solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution. The ALI go-live is scheduled for 4/3/2025. IV&V remains concerned solution. The ALI go-live is scheduled for 4/3/2025. IV&V					numbers regularly to BHA.		I	I							
largely unchanged from one period to the next. Conducting  System Integration  Testing, User  We can be a superior to the next of the next					l		1	1							
from one period to they meet BHA support requirements.  they meet BHA support requirements.  1/31/25 - The R4.10 go-live is scheduled for 2/6/2025. Currently, 25 unresolved production defects remain, including (refer to Appendix E for a list of unresolved production defects). The SI indicated that BHA prioritizes higher-priority  Testing, User neutrality fiscal balance testing on a tasks, delaying the resolution of lower-priority defects. Efforts are underway to address these issues. The FHIR							1	1							
the next. Conducting System Integration 7. The project perform CAMHD revenue (refer to Appendix E for a list of unresolved production defects.) The Si Indicated that BHA prioritizes higher-priority Testing, User equivality fiscal balance testing on a tasks, delaying the resolution of lower-priority defects. Efforts are underways to address these issues. The FHIR						about code quality and will continue to monitor K4.10, FHIR, any MSDs, and the AER solution.	I	I							
System Integration 7. The project perform CAMHD revenue (refer to Appendix E for a list of unresolved production defects). The SI indicated that BHA prioritizes higher-priority  Testing, User neutrality fiscal balance testing on a tasks, delaying the resolution of lower-priority defects. Efforts are underway to address these issues. The FHIR					triey meet Bria Support requirements.	1/21/25. The PA 10 go live is scheduled for 2/6/2025. Currently, 25 upressived production defect on the control individual	I	I							
Testing, User neutrality fiscal balance testing on a tasks, delaying the resolution of lower-priority defects. Efforts are underway to address these issues. The FHIR					7. The project perform CAMHD revenue		1	1							
							I	I							
Acceptance Testing. Injuraterly basis to ensure revenues are as develonment was completed and deployed to production on 1/29/75, with delaws due to issues related to integrating		<u> </u>	<u> </u>	Acceptance Testing.	quarterly basis to ensure revenues are as	development was completed and deployed to production on 1/29/25, with delays due to issues related to integrating		<u> </u>		<u> </u>				<u> </u>	

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner	
34	Limited BHA resources	Shortage of	Key BHA project	1. IV&V recommends that BHA implement	4/30/25 -To address a few of the resource challenges the project has faced, in early April 2025, DDD onboarded a	Resource	Issue	Medium	Open			8/18/2023	Michael Fors	
		Behavioral Health	resources have	a structured knowledge transfer process	Tosca Automated Regression Testing Subject Matter Expert (SME). To support a successful onboarding, DDD provided							, , ,		
		Administration (BHA)	reported constraints	when key personnel retire, including cross-	system demos, training materials, and facilitated collaboration with the CAMHD and SI team. Internal DDD resources									
		project resources	on how much time	training and documenting critical	have been identified for knowledge transfer related to regression testing. This will enable an effective transition for									
		could lead to reduced		knowledge in the Dynamics Help Desk	maintaining the automated testing suite. Additionally, CAMHD and DDD are actively working to identify and secure									
		productivity and		system. Regular updates to the knowledge	resources to support the Business Analyst roles.									
		project delays.	of the Child and	base will maintain its accuracy, preserve										
			Adolescent Mental	essential information, and support smooth										
			Health Division (CAMHD) System	operational continuity.	creating knowledge transfer articles to capture key information, but some gaps remain. A key challenge is converting issues into clear, documented articles, as informal communication (emails, calls, or ad hoc discussions) can bypass									
			Management Office	Utilizing peer-to-peer knowledge	the help desk system. To improve consistency and visibility, BHA is working to ensure all relevant issues are properly									
			Manager and CAMHD		logged as help desk cases when appropriate. To further address the resourcing challenge, DDD will be onboarding a									
			Inspire Project Lead	members to informally share their	Tosca Automated Regression Testing Subject Matter Expert (SME) in early April 2025 to improve cross-training and									
			could further impact	expertise during team meetings.	support. The kickoff meeting took place on 3/17/25. As part of this project, PCG will work with DDD to identify the									
			the project if DOH	Additionally, creating internal	resources and processes for the ongoing maintenance of regression testing scripts. Additionally, training will be									
			cannot acquire	documentation that outlines best practices										
			suitable resources.	and processes for developing security	, and the second									
			The lack of capacity of	policies would serve as a self-service	2/28/25 - BHA is developing a succession plan to address the potential departure of key personnel and is actively									
			the DOH test script	resource for the team.	working on having resources document knowledge as team members transition. This proactive approach aims to									
			developer has slowed		ensure continuity and preserve essential information. One example of this effort is creating a knowledge base within									
			DOH's automated test	3. DDD and CAMHD have further	the Help Desk system in Dynamics, which serves as a centralized resource for troubleshooting and support processes.									
			script development.	discussions to optimize resource utilization	By documenting processes, workflows, and troubleshooting steps, BHA ensures that future staff can access the same									
			If BHA is unable to	between the two divisions.	information and continue operations smoothly, even as experienced team members move on.									
			fully staff the project											
			and their existing	BHA should explore options for	1/31/25 - IV&V was informed that some cross-training had been conducted, but concerns remain regarding the									
				offloading project team members' daily	insufficient knowledge transfer for critical tasks. While a limited amount of knowledge transfer occurred concerning									
			be constrained, the	responsibilities to other staff.	the provider portal, it was highlighted that more comprehensive cross-training is needed, particularly for the									
			project could	E BUILD alternate and annual a	provider and customer portals. This would help reduce the risks associated with knowledge gaps and ensure									
			experience a	5. BHA should work quickly to create new	continuity in operations, especially in the event of key personnel unavailability. DDD plans to onboard a Tosca									
			reduction in productivity and	positions and receive State approval.	Automated Regression Testing Subject Matter Expert (SME) to address the resourcing issue and improve cross- training. The plans and timeline for Tosca automated regression testing are being reviewed, with plans to commence									
			project delays.	6. BHA should identify tasks and duties that										
			project delays.	they can ask the SI to assume, as permitted	101 ( 01 3) I) E0E3.									
				by the contract, which are presently being	12/31/24 - IV&V is concerned that limited resources at RHA could cause project delays and affect system quality. For									
39	Deployment process.	Due to on-going	Several post-	Implement a streamlined Root Cause	4/30/25 - R4.11 was successfully deployed on 4/3/2025, with Smoke Testing successfully completed on 4/4/25. A	Release/Deployment	Issue	Low	Open				Gautam Gulvady	
		deployment processes	production bugs have		Mid-Sprint Deployment (MSD) was also conducted on 4/18/25, which included four (4) User Stories. One earlier high-	Planning								
		and technical	been encountered in	deployment causes and prevent	severity defect was traced to a Microsoft service error and was resolved on 4/18/25. A second high-severity issue									
		execution issues, the Project may continue	the Phase 4 release, R4.4.	recurrence. To manage resource constraints, consider timeboxing RCA	was later identified as deployment-related. While an RCA was documented and shared via email, the issue was not logged in Azure DevOps (ADO) as per standard procedures and was instead tracked informally. Additional unresolved									
		to encounter defects	Regarding the bug,	efforts—e.g., 1–2 hours per defect or a set	production defects have been identified following the R4.11 deployment, and the project team is currently working									
		and challenges, e.g.,	"Human Services	number of hours weekly. Within this	to confirm the number of new defects. Root Cause Analyses (RCAs) are not currently being consistently documented									
		when releases are in	Research Institute	timeframe, focus on gathering context,	for production defects, and the project has yet to effectively leverage RCA findings to reduce post-production defect									
		production or in		analyzing causes, and proposing corrective	rates. The project team acknowledges the value of establishing a formal RCA process, and further discussions are									
		meeting projected	production" (bug#	actions. Project PMs can track these	planned. Implementing a robust RCA process may help reduce defect recurrence by addressing unresolved or									
		timelines for	34886	actions to ensure follow-through.	unidentified root causes. IV&V will continue to monitor the deployment quality of R4.11, FHIR, MSDs, and the AER									
		production and non-	https://dev.azure.com	-	solution to identify any deployment-related defects.									
		production		2. The Project should consider automating			1				1			
1		deployments.		deployments for resource savings,	3/31/25 - It remains unclear whether RCAs (Root Cause Analyses) are adequately documented for defects deployed		1							
			ems/edit/34886),	increased efficiency, consistency, faster	into production, and whether the project is effectively utilizing RCAs to minimize post-production defects. BHA has		I				İ			
			what is in	time to market, improved collaboration	indicated that resource constraints have impeded some RCA efforts. Neglecting to implement RCA processes could		1							
			development and	and reliability, scalability, version control	result in heightened defect rates, including recurring issues due to unidentified and/or unresolved root causes. With		I				İ			
1			deployed is vastly different from what	integration, and rollback capability.	the R4.11 go-live scheduled for 4/3/25, IV&V will continue to monitor the deployment quality of R4.10, FHIR, MSDs,		1							
1			was deployed to	Ensure there are adequate and qualified	and the AER solution to identify any deployment-related defects.		1							
İ			was deployed to production.	resources to support the c3urrent	3/30/3E. The BA O deployment related defect is yet to be added at 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100 and 100		I				İ			
1	1	1	p. Gaaction.	deployment processes. This may require	2/28/25 - The R4.9 deployment-related defect is yet to be addressed. R4.10 was deployed to production on 2/6/2025. That same day, users reported a critical defect, prompting the deployment of a hotfix with a workaround		1							
					27 07 2023. That same day, users reported a critical defect, prompting the deployment of a flothix with a workaround		1							
			The root cause for	the support from RSM resources to provide	on 2/7/2025. Since the R4.10 deployment, five additional unresolved production defects have been logged in Azure									
			The root cause for these errors is	the support from RSM resources to provide assistance and knowledge transfer for	on 2/7/2025. Since the R4.10 deployment, five additional unresolved production defects have been logged in Azure DevOps (ADO): two high severity, two medium severity, and one low severity. Their Root Cause Analysis (RCA) is still								ļ	
			these errors is	assistance and knowledge transfer for	DevOps (ADO): two high severity, two medium severity, and one low severity. Their Root Cause Analysis (RCA) is still									
					DevOps (ADO): two high severity, two medium severity, and one low severity. Their Root Cause Analysis (RCA) is still pending. Additionally, the AER solution went live on 2/21/2025, and a Mid-Sprint Deployment (MSD) with two (2)									
			these errors is currently being	assistance and knowledge transfer for some of the more complex deployment	DevOps (ADO): two high severity, two medium severity, and one low severity. Their Root Cause Analysis (RCA) is still pending. Additionally, the AER solution went live on 2/21/2025, and a Mid-Sprint Deployment (MSD) with two (2) new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV8V will continue to monitor									
			these errors is currently being	assistance and knowledge transfer for some of the more complex deployment	DevOps (ADO): two high severity, two medium severity, and one low severity. Their Root Cause Analysis (RCA) is still pending. Additionally, the AER solution went live on 2/21/2025, and a Mid-Sprint Deployment (MSD) with two (2)									
			these errors is currently being investigated.	assistance and knowledge transfer for some of the more complex deployment components.	DevOps (ADO): two high severity, two medium severity, and one low severity. Their Root Cause Analysis (RCA) is still pending. Additionally, the AER solution went live on 2/21/2025, and a Mid-Sprint Deployment (MSD) with two (2) new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV8V will continue to monitor									
			these errors is currently being investigated. Repeatable	assistance and knowledge transfer for some of the more complex deployment components.  4. As appropriate, consult with RSM on	DevOps (ADO): two high severity, two medium severity, and one low severity. Their Root Cause Analysis (RCA) is still pending. Additionally, the AER solution went live on 2/21/2025, and a Mid-Sprint Deployment (MSD) with two (2) new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV&V will continue to monitor the deployment quality of R4.10, FHIR, any MSDs, and the AER solution.									
			these errors is currently being investigated. Repeatable documented release and deployment and resources experienced	assistance and knowledge transfer for some of the more complex deployment components.  4. As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	DevOps (ADO): two high severity, two medium severity, and one low severity. Their Root Cause Analysis (RCA) is still pending. Additionally, the AER solution went live on 2/21/2025, and a Mid-Sprint Deployment (MSD) with two (2) new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV&V will continue to monitor the deployment quality of R4.10, FHIR, any MSDs, and the AER solution.  1/31/25 - R4.9 encountered deployment issues, prompting the creation of a defect in ADO. BHA is actively working to									
			these errors is currently being investigated. Repeatable documented release and deployment and resources experienced with deployments will	assistance and knowledge transfer for some of the more complex deployment components.  4. As appropriate, consult with RSM on best practices that BHA could employ to support deployment.  5. Request the assistance of the RSM	DevOps (ADO): two high severity, two medium severity, and one low severity. Their Root Cause Analysis (RCA) is still pending, Additionally, the AER solution went live on 2/21/2025, and a Mid-Sprint Deployment (MSD) with two (2) new items were deployed the same day. The R4.11 go-live is scheduled for 4/3/2025. IV&V will continue to monitor the deployment quality of R4.10, FHIR, any MSDs, and the AER solution.  1/31/25 - R4.9 encountered deployment issues, prompting the creation of a defect in ADO. BHA is actively working to resolve these issues involving missing web resources and workflows. The R4.10 go-live is scheduled for 2/6/2025. The FHIR development was completed and deployed to production on 1/29/25, with delays due to issues related to integrating with Microsoft and Apple Health. The AER solution go-live is scheduled for 2/21/2025. N&V will continue									
			these errors is currently being investigated. Repeatable documented release and deployment and resources experienced	assistance and knowledge transfer for some of the more complex deployment components.  4. As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	DevOps (ADO): two high severity, two medium severity, and one low severity. Their Root Cause Analysis (RCA) is still pending. Additionally, the AER solution went live on 2/21/2025, and a Mid-Sprint Deployment (MSD) with two (2) new items were deployed the same day. The RR.11 go-live is scheduled for 4/3/2025. IV&V will continue to monitor the deployment quality of R4.10, FHIR, any MSDs, and the AER solution.  1/31/25 - R4.9 encountered deployment issues, prompting the creation of a defect in ADO. BHA is actively working to resolve these issues involving missing web resources and workflows. The R4.10 go-live is scheduled for 2/6/2025. The IRIR development was completed and deployed to production on 1/29/25, with delays due to issues related to							1/25/2024 - The R4		

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner	
40	Limited testing	Limited testing	There is a limited	Make efforts to implement a streamlined	4/30/25 - R4.11 was successfully deployed on 4/3/2025, with Smoke Testing successfully completed on 4/4/25. A	Test Practice	Issue	Medium	Open			1/31/2024	Gautam Gulvady	
		processes can lead to	understanding of the	Root Cause Analysis (RCA) process to	Mid-Sprint Deployment (MSD) was also performed on 4/18/25, which included four (4) User Stories. Additional	Validation			'				· .	
Ī		poor-quality software,	testing processes and		unresolved production defects have been identified following the R4.11 deployment, and the project team is								j	
		project delays and	the roles and	recurrence. Due to project resource	currently working to confirm the number of new defects. The project team continues to address other outstanding									
		extended user	responsibilities of	constraints, propose timeboxing RCA	production defects (see Appendix E for details). The project team has enhanced smoke test scripts to provide more									
		acceptance testing.	those involved in the	efforts for each defect introduced into	comprehensive coverage, including functionality such as the Provider Portal. To further strengthen quality assurance,									
			process. There is no	production. Timeboxing involves allocating	the project onboarded a Tosca automated regression testing expert in early April 2025, with work scheduled to begin									
			formal process for the		shortly thereafter. This regression testing effort is expected to span April and May 2025. The expert will focus on									
			development, review,		repairing existing Tosca scripts and reinitiating automated testing efforts.									
			and approval of test	focused Root Cause Analysis (RCA)	2/24/25 71 452 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									
			scenarios, test cases, and test results to	activities. These activities may include	3/31/25 - The AER solution is in production. The project team closely monitored the solution to ensure stability,									
			ensure adequate	potential causes, and proposing corrective	quickly resolve issues, and help users adjust to the new system (also known as Hypercare); Hypercare ended on 3/21/25 and the project is prioritizing the product backlog. The AER team worked diligently to close all defects									
			participation and	actions, all within the specified timeframe.	reported during Hypercare.									
			approval from state	Project PM(s) can oversee the tracking of	Since the deployment of R4.10 on 2/6/25, the project has identified additional unresolved production defects,									
			staff.	corrective actions to ensure completion.	including 1 high-severity defect, in Azure DevOps (ADO) (see Appendix E for details), despite testing at the unit.									
			When testing user		system integration (SIT), regression, joint, and smoke testing levels. In response, the System Integrator (SI) is									
			stories 34564 and	IV&V recommends that, after fixing a	enhancing smoke test scripts to provide more comprehensive coverage, including functionality such as the Provider									
				defect, the SI incorporate relevant test	Portal. To further strengthen quality assurance, the project will be onboarding Tosca automated regression testing									
			test tasks did not	cases to validate these fixes in subsequent	expert in early April 2025, with work scheduled to begin subsequently. The expert will focus on repairing existing									
			reflect the real use	releases.	Tosca scripts and reinitiating automated testing efforts.									
			cases to give											
			stakeholders adequate	IV&V has requested discussions on various	2/28/25 - R4.10 was deployed to production on 2/6/2025. Since the deployment of R4.10, five additional unresolved									
			confidence that the	aspects of the INSPIRE testing process with	production defects have been recorded in Azure DevOps (ADO) (see Appendix E for details): two high severity, two									
			user story could be	a focus on process such as tracking test	medium severity, and one low severity—despite testing at the unit, SIT, regression, joint, and smoke testing levels. In									
			tested. As a result,	coverage and requirements traceability,	response, the SI has committed to enhancing Smoke Test scripts to include more comprehensive testing, such as for									
			time was expended by	considering new development of Access	the Provider Portal.									
			testing resources,	Rules, Document management/digitization.	The project plans to onboard an Automated Regression Testing Tool (Tosca) expert, with work planned to begin									
			testing was		sometime in the month of March 2025. The project hopes to utilize this expert to repair their existing Tosca scripts so									
			inadequate, and a	A Stakeholder Register helps identify and	they can restart automated testing efforts.									
			user story may have	understand all project stakeholders, ensuring their needs are met and risks are	User Acceptance Testing for AER functionality was completed successfully with BHA approving the AER testing deliverables. The AER solution went live on 2/21/2025.									
			functionality when it	*	deliverables. The AER solution went live on 2/21/2025.									
			did not	managed through effective	1/31/25 - IV&V has been requesting a walkthrough of the INSPIRE testing process since 10/2024, which the SI has not									
41	Backlog meetings	The absence of	Currently, product	Separate dedicated product backlog review	4/30/25 - IV&V was invited to attend the DDD Backlog Prioritization Meeting. Several key items were discussed,	Sprint Planning	Risk	Low	Open			1/26/2024	Gautam Gulvady	
		separate dedicated	backlog reviews are	meetings (during sprints) would allow	including:									
		product backlog	done during design	clarifying any ambiguities or uncertainties,	- Apple Health									
		review meetings can	meetings and/or	re-prioritization, estimation, and	- Calculator									
		lead to unclear	weekly issues	refinement of backlog items. This would	- Provider and Customer Portal Documents									
		priorities,	meetings. This can	allow the project team to avoid situations	While the meeting addressed these items, many of the backlog items still require estimation. DDD is currently									
		misalignment with			working to complete these estimations. IV&V is reducing the risk rating from medium to low due to the progress									
			focus, limited stakeholder	sprint would have to be taken.	made in backlog prioritization and ongoing efforts to complete estimations.									
				NO.	2/34/35									
			in managing	IVV recommends scheduling separate dedicated product backlog review meetings	3/31/25- Product Backlog meetings are being scheduled, and the IV&V team has been invited to attend. These meetings are essential for aligning priorities, managing technical dependencies, and ensuring that backlog items are									
		creep.	complexity, and	(during sprints) where all relevant	well-defined for development and testing, helping to maintain project velocity and minimize rework.									
		p-	delayed decision	stakeholders are invited to review the	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th									
			making.	product backlog and scheduled at the	2/28/25 - BHA plans to schedule other backlog review meetings and will notify IV&V accordingly. While some									
			A product backlog	appropriate time(s) such that there is	meetings have already occurred, a consistent backlog review schedule is still being established. Efforts are also									
			review is an essential	sufficient time to plan the design,	underway to improve the backlog review process. Regular meetings and process enhancements will help ensure									
I			part of agile project	development, and implementation (DDI) of	alignment, facilitate timely issue resolution, and keep the project moving forward efficiently.								]	
			management,	the next release(s).										
			particularly in Scrum.	1	1/31/25 - BHA remains satisfied with the backlog prioritization. However, CAMHD, having conducted surveys and									
			It's a collaborative	1	user group interviews in 2019 and 2020, is concerned that gathering feedback from a broader user base might lead									
			meeting where the	1	to additional requests without proper prioritization. DDD mentioned that the next product backlog meeting is									
			Scrum team, including	1	scheduled for Monday, 2/2/2025, due to current team availability and ongoing commitments. Additionally, IV&V will									
			the Product Owner,	1	be invited to attend these backlog meetings.									
I			Scrum Master, and	1									]	
			development team	1	12/31/24 -IV&V observed two CAMHD backlog prioritization meetings and will continue to monitor the process									
			members, inspect and	1	regularly. While CAMHD and DDD are generally satisfied with the backlog prioritization, there are areas for									
			adapt the product	1	improvement, particularly in balancing input from a broader user base and ensuring that federal compliance and									
			backlog.	1	performance-related features are given appropriate attention in the backlog. By refining these aspects, both teams								]	
			The product backlog	1	can improve the backlog prioritization process.									
			review is an important	.[	11/30/24 - The DDD team has scheduled a meeting for this month (November) to review the product backlog. During									
1			Scrum ceremony that	1	this session, the team will assess the current backlog items, prioritize them according to business value and urgency,								]	
I			helps keep the backlog		and ensure they align with the overall project goals. BHA plans to invite the IV&V team to participate in the backlog								]	
1	1		relevant, up-to-date.	1	review meetings.									

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner	
46	Defect management.	Neglecting the established defect management process could lead to lost/forgotten defects, user frustration, and could slow resolution of similar defects in the future.		IV&V recommends to:  1. The project records the history of a defect's severity in the corresponding ticket's description/notes section in ADO. For example, when a hotfix is deployed to mitigate a defect initially classified as "Critical" severity rating.  2. Based on Best Practice wipdating the defect management documentation and having regular refresher training on the defect management process.  2. Send communications to the project stakeholders to clarify the defect management process.  3. Take steps to assure current and new users understand how to report and/or log defects.  4. Consider designating a defect management lead or champion to oversee adherence to the process and assure all defects are logged.  5. Keep stakeholders informed about defect status, priority, impacts, and resolution timelines. This could increase awareness of the importance of logging all defects.  6. Discuss ways to improve the defect logging and management process with the SI and come up with a plan to improve.	4/30/25 - IV&V has reviewed the documentation outlining the Help Desk process. IV&V continues to observe increased project focus on both the Help Desk and defect management processes, and will monitor adherence to these processes while providing feedback and recommendations based on best practices Meanwhile, BHA is reviewing the previously provided Help Desk documentation and considering adopting and enforcing the outlined defect management proceedure.  3/31/25 - In March 2025, the SI provided documentation that was originally created in 2019, outlining the Help Desk process. IV&V is continuing its review of the process and will provide feedback and recommendations based on best practices in April 2025. Notably, the project has placed increased attention on this area, which is a positive development. As a result of this heightened focus, IV&V has observed a corresponding rise in the number of defects being logged in Azure DevOps (ADO), indicating stronger adherence to reporting protocols and greater transparency in issue tracking. Productive discussions are underway to address critical defects. By reviewing the Help Desk process and addressing any gaps, IV&V anticipates improvements in the overall defect management approach. BHA usually receives issues by email or helpdesk calls, with most reports submitted by email. Depending on the severity of the defect, BHA personnel may consult with other team members and flag high-severity defects, perorting them to the SI. While the current process is generally effective, there is room to speed up how critical defects are handled, particularly by enhancing how these issues are initially logged.  2/28/25 - A high-priority defect occurred on 2/6/2025, bringing to light an opportunity to strengthen the project's defect management process. BHA encountered some challenges that resulted in a delay in addressing the defect. In February, there were productive discussions on addressing critical defects. The SI has provided a document outlining the Help Desk process, which IV&V		Issue	Medium	Open			9/30/2024	Gautam Gulvady	
47	Production restarts.	The lack of a governance process for restarting production systems can impact service availability and frustrate end-users and hinder accountability.		IV&V recommends BHA  1. Develop standard procedures for system restarts, including a checklist to determine when a restart is necessary, pre-checks, step-by-step instructions, and post-restart verifications.  2. Require formal approvals before initiating a restart, especially for INSPIRE, and document all actions in a centralized system.  3. Define clear escalation paths for when restarts do not go as planned, including identifying contacts for technical support and management approval for additional interventions.  4. Automate Restart Procedures where possible.  5. The governance process is established, it should be effectively communicated to the project team.  6. Provide stakeholders with a clear explanation of the reason for the restart and the lessons learned, while documenting the restart details in the defect record.	11/30/2024 - In recent meetings with DDD and CAMHD, IV&V discussed the issue of some defects reported to Heliodack via ahono no rather channels not bined loseed no addressed DND noted that staff find the process of loseine 4/30/25 - BHA is continuing with the development of a document describing a communication protocol. BHA has provided some key changes, including adjustments to the advance notice period, provider notifications, and specific language preferences, which would further strengthen the protocol and enhance its effectiveness. BHA shared the draft document with DDD and IV&V for initial review.  3/31/25 - Based on discussions with key members of the deployment team, IV&V continues to recommend documenting processes, procedures, and communication protocols to eliminate ambiguity and promote a shared understanding among stakeholders. The deployment team is currently finalizing a communication protocol.  2/28/25 - There has been no progress for this reporting period.  1/31/25 - When an issue requiring a production Portal restart occurred only once, certain project stakeholders convened to discuss and implement the necessary steps. IV&V recommends documenting the actions taken during that meeting as part of the process for production system restarts. Documenting processes and procedures removes ambiguity and ensures a common understanding among stakeholders.  12/31/24 - BHA suggested that the deployment team or the Help Desk team may be best suited to document the process. IV&V remains concerned that no further progress has been made and will continue to make recommendations on how BHA could resolve this issue and be prepared for a production restart.  11/30/24 - No progress has been made for this reporting period.	Project Management	Issue	Medium	Open			9/30/2024	Gautam Gulvady	