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June 18, 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 http://ets.hawaii.gov (see "Reports").

Sincerely,

Christine M. Sakuda Chief Information Officer State of Hawai'i

Attachments (2)





Hawaii BHA Integrated Case Management System Project – Phase 4

IV&V Report for the period of

May 1 - May 31, 2025

Final Submitted: June 13, 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 appears to be making good progress towards the planned monthly release to add more features to the system. The most recent release introduced new features to enhance case management and reporting efficiency, and that should improve system usability.

The project continues to face challenges, with some bugs being released to production. IV&V remains concerned that the root causes of these issues are not always thoroughly analyzed to determine potential process improvements to prevent similar defects from recurring. IV&V continues to recommend implementing sufficient root cause analysis (RCA) practices to reduce the number of bugs released to production.

The project is stepping up efforts to improve backlog refinement and prioritization of system enhancements and bug fixes. With a limited annual budget for system changes, these activities will help the project focus on implementing the most critical updates within budget constraints.

BHA is continuing efforts to address BHA's limited resources, possibly adding an additional business analyst to the project. They are also considering acquiring additional security resources to mitigate potential operational and compliance risks related to their significant backlog of security related activities.

Testing is progressing through a mix of manual and automated methods. The project's new test automation contractor is making progress toward improving the test automation processes and repairing some automated test scripts. This work focuses on building a stronger automation framework that will enhance testing efficiency and scalability over time.



Mar	Apr	May	Category	IV&V Observations	
G	G	G	Sprint Planning	The project is stepping up efforts to improve backlog refinement and prioritization of system enhancements and bug fixes. With a limited annual budget for system changes, these activities will help the project focus on implementing the most critical updates within budget constraints.	
G	G	G	User Story (US) Validation	There are no active findings in the User Story (US) Validation category, which remai 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	Testing is progressing through a mix of manual and automated methods. Manual regression testing remains important for recent releases, while a test automation expert is currently reviewing the existing tests to find ways to improve them. This work focuses on building a stronger automation framework that will enhance testing efficiency and scalability over time.	



Mar	Apr	May	Category	IV&V Observations	
Y	Y	Y	Release / Deployment Planning	The recent release was successfully deployed to production on 5/29/2025. While the project team has indicated that a Root Cause Analysis (RCA) process is in place, formal documentation and clearly defined protocols for initiating RCAs have not yet been provided. In one instance, the team identified the root cause of a production defect related to a Microsoft update. This issue came to light only through detailed root cause analysis. Establishing guidance on triggers and criteria for conducting RCAs could help ensure more consistent application of these practices and further support efforts to address recurring issues.	



Mar	Apr	May	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 May reporting period with no active findings.	
G	G	G	Targeted KT	This category remains Green (low criticality) for the May reporting period. IV&V will continue to monitor.	
G	G	G	Project Performance Metrics	There are no project performance metrics to report for the May 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 May reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.	



Mar	Apr	May	Category	IV&V Observations
				The project appears to be making good progress towards the planned monthly release to add more features to the system. The most recent release introduced new features to enhance case management and reporting efficiency, and that should improve system usability.
Y	Y	Y	Project Management	BHA has made positive progress in discussions around improving the communication protocol, including considering adjustments to advance notice periods, provider notifications, and language preferences to enhance clarity and effectiveness. The updated document is expected to be shared with IV&V for review once it is finalized.

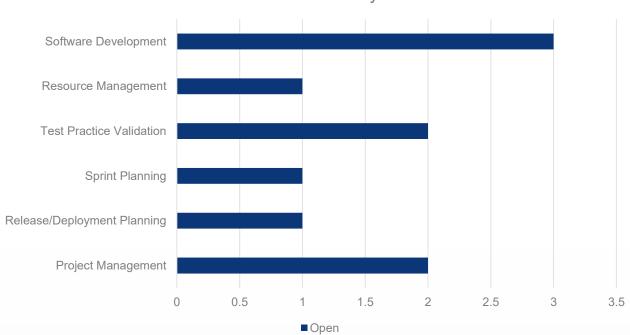


Mar	Apr	May	Category	IV&V Observations
Y	Y	Y	Resource Management	BHA is currently facing resource challenges in security monitoring, including limited staffing, no dedicated personnel for audit log review, and insufficient tools for log analysis. To address this, the team is exploring options such as engaging a cybersecurity consultant, requesting additional funding, and temporarily assigning cybersecurity tasks to existing administrative roles.



As of the May 2025 reporting period, Ten (10) open findings were updated – Seven (7) Medium Issues, One (1) Low Risk and Two (2) Preliminary Concerns, spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, Project Management, Resource Management, assessment areas are currently open.







Assessment Categories

Throughout this project, IV&V verifies and validates activities performed in the following process areas:

- Sprint Planning
- User Story Validation
- Test Practice Validation
- Release / Deployment Planning
- On-the-Job Training (OJT) and Knowledge Transition (KT) Sessions
- Targeted Knowledge Transition (KT)
- Project Performance Metrics
- Organizational Maturity Assessment
- Project Management
- Resource Management



Sprint Planning (cont'd)

#	Key Findings	Criticality Rating
41	Medium Risk: The absence of separate dedicated product backlog review meetings can lead to unclear priorities, misalignment with stakeholders, inadequate refinement, and an increased risk of scope creep. Update: BHA continues to hold backlog review meetings, with the most recent session conducted in April 2025. These efforts represent a positive step toward aligning priorities, managing technical dependencies, and clearly defining backlog items to support development and testing. While no sessions have yet been scheduled for May, IV&V understands that the team is still acclimating to roles and processes. IV&V plans to attend future backlog prioritization meetings to support this effort.	

Recommendations	Status
BHA continues to conduct these meetings regularly and mature the practice over time, as they provide tangible value in sustaining project velocity and reducing rework.	Open
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
2	Medium Issue: The lack of comprehensive automated regression testing has likely led to post-production defects, causing user frustration. Finding Update: Regression testing was successfully executed from 5/19/2025 to 5/28/2025. PCG's Phase 1 analysis of DDD's test infrastructure has facilitated its selection of a hybrid approach centered	M
	on creating automated regression tests. The Tosca Automated Regression Testing SME is streamlining the DDD tests to integrate with CAMHD tests, an effort expected to reduce manual testing time, improve test reliability, and provide a unified framework.	

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.	In Progress
Schedule priorities should be reevaluated by distributing the work according to the resource bandwidth. This will ensure that the schedule is not impacted and that the work is done efficiently between regression testing and Golden Record (GR) tasks.	In Progress
Pursue and complete additional formal training in Azure DevOps and Tricentis for test automation as soon as possible and complete efforts to automate the two primary regression test scripts.	In Progress
Determine if current regression testing timeframes are adequate, and if not, add more time to the pre-production regression test efforts for all release deployments.	In Progress



Test Practice Validation (cont'd)

#	Key Findings	Criticality Rating
40	Medium Issue: Limited testing processes can lead to poor-quality software, project delays, and extended user acceptance testing. Finding Update: R4.12 was deployed to production on 5/29/2025, followed by successful smoke testing on 5/30/2025. However, users subsequently reported three production defects that were expected to have been identified during smoke testing. R4.12 regression testing was conducted from 5/19/2025 to 5/28/2025 and completed successfully. CAMHD and DDD focused on manual regression testing. Additionally, the Tosca automation expert is reviewing current functionality to identify optimization opportunities and is developing recommendations and effort estimates to enhance the automated regression testing framework. The project team continues to work on resolving outstanding production defects (see Appendix E). IV&V will continue to monitor key areas, including R4.12, FHIR implementation, any Mid-Sprint Deployments (MSDs), and the AER solution for quality issues.	M

Recommendations	Status
IV&V recommends enhancing the smoke testing scripts to better align with high-risk and business-critical workflows. As part of this effort, it may be helpful to review recent production defects to identify areas where test coverage could be improved. Expanding smoke test scenarios to include key functional paths with a history of defects, along with exploring opportunities for automation, can contribute to more efficient and consistent post-deployment validation. These enhancements are intended to support stronger release readiness and help minimize the risk of post-deployment issues.	Open



Test Practice Validation (cont'd)

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
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.	



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: R4.12 was successfully deployed to production on 5/29/2025. However, there was a misunderstanding about whether one of the items on the deploy list was actually deployed. IV&V is having discussions with the deployment team on how the process can be improved to avoid such misunderstandings from recurring. While the project team reports that a Root Cause Analysis (RCA) process exists, IV&V has not received documentation of a formalized process. Additionally, formal protocols and defined criteria for initiating RCAs have not yet been established. Specifically, there is no documented guidance outlining the triggers, thresholds, or conditions under which an RCA is required (e.g., severity, recurrence, or business impact of defects). This gap limits the consistent and effective application of RCA practices, reducing their utility in addressing and preventing recurring production issues. IV&V encourages timely adoption of these practices to support long-term quality improvement and will continue monitoring deployment quality across R4.12, FHIR, MSDs, and the AER solution for any related defect trends.	
Rec	ommendations	Status
inclu stake	project team is recommended to develop and document a formal Root Cause Analysis (RCA) protocol that des defined triggers for initiating an RCA such as severity 1 or 2 production defects, recurring issues, or eholder-reported impacts. The protocol should also establish clear roles and responsibilities for conducting	

The project team is recommended to develop and document a formal Root Cause Analysis (RCA) protocol that includes defined triggers for initiating an RCA such as severity 1 or 2 production defects, recurring issues, or stakeholder-reported impacts. The protocol should also establish clear roles and responsibilities for conducting RCAs and reviewing outcomes, along with setting timeframes for completing RCAs following defect identification or release. Additionally, incorporating standardized templates or tools for documenting RCA findings and associated corrective actions, as well as implementing a tracking mechanism to ensure those actions are carried out and monitored for effectiveness, will strengthen the process. Formalizing these elements will help ensure RCA practices are applied consistently, improve visibility into root causes, and support long-term defect reduction across future releases, including those related to FHIR, MSDs, and AER.

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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.	On-going
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
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.	On-going
As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	On-going
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.	On-going



Release / Deployment Planning (cont'd)

Recommendations	Status
Request assistance from the RSM Solution Architect in reviewing deployment scripts to double-check for accuracy and completeness before commencing deployment activities.	On-going
The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.	On-going
IV&V recommends performing a Root Cause Analysis (RCA) in collaboration with RSM for the continued concerns surrounding environment differences.	On-going
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.	On-going
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.	On-going
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.	On-going



#	Key Findings	Criticality Rating
	Medium Issue: 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	Finding Update: IV&V continues to observe project focus on the Help Desk and defect management processes. BHA is actively reviewing the submitted Help Desk documentation to assess the adoption and enforcement of the documented defect management procedures. IV&V will provide feedback and recommendations to support alignment with industry best practices.	

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



#	Key Findings	Criticality Rating
47	Medium Issue: The lack of a governance process for restarting production systems can impact service availability and frustrate end-users and hinder accountability. Finding Update: BHA has engaged in productive discussions around enhancing the communication protocol, including potential adjustments to advance notice periods, provider notifications, and language preferences, to improve its clarity and effectiveness. However, the updated document has not yet been shared with IV&V for review.	M

Recommendations	Status
IV&V recommends BHA 1. Develop standard procedures for system restarts, including 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.	Open



Resource Management

#	Key Findings	Criticality Rating
	Medium Issue: A shortage of BHA project resources could lead to reduced productivity and project delays.	
34	Finding Update: BHA is currently facing resource challenges in security monitoring, including limited staff for managing security tasks, no dedicated person to review audit logs, and a lack of tools for efficient log analysis. To address these issues, the team is exploring several options, such as engaging a cybersecurity consultant and requesting additional funding for security support. In the short term, they are also exploring the incorporation of cybersecurity tasks into existing administrative 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



Software Development

#	Key Findings	Criticality Rating
	Medium Issue: Due to multiple quality concerns, the project may continue to face impactful system defects.	
14	Finding Update: R4.12 was deployed to production on 5/29/25, followed by successful smoke testing on 5/30/2025. Users have reported three (3) production defects which the project team is analyzing. During May 2025, one new medium-severity production defect was reported. The project team continues remediation of existing production defects (see Appendix E), though resolution of lower-priority issues has been delayed as BHA focuses on higher-priority tasks. Additional production defects may emerge as users continue to engage with the R4.12 functionality post-go-live. IV&V will continue to monitor key areas, including R4.12, FHIR implementation, any Mid-Sprint Deployments (MSDs), and the AER solution.	M

Recommendations	Status
Consider exploring tools and practices that support continuous code quality improvements that could help to establish quality standards and assure high-quality code that is secure and can be easily maintained.	Open
The project increases comprehensive testing prior to joint testing to reduce the burden on BHA testers and reduce post-production defects.	Open
The SI vendor add a "Found In" column to the daily scrum file to indicate the environment where each defect was identified.	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	s. 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
42	Medium Issue: Lack of effective governance and communication among stakeholders can have significant negative impacts on a project in several ways. Update: There are no updates for this reporting period. As no governance issues have been identified, IV&V is closing this finding.	Closed

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



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



Software Development

#	Key Findings	Criticality Rating
52	Preliminary Concern: BHA does not currently have a streamlined report to identify active AER analytics users in production. Finding Update: While BHA can determine the number of active AER analytics solution users in production based on user email addresses, the process is manual and lacks a standardized report. Although the need for a reporting feature has been discussed, no formal request has been made to implement it. This limits efficient user monitoring and may impact future efforts to track adoption or support planning. BHA plans to submit a new request.	

Software Development

#	Key Findings	Criticality Rating
	Preliminary Concern: User activity tracking for viewing records is limited across systems, which may affect transparency and raise potential compliance concerns.	
53	Finding Update: The BHA team is currently assessing whether systems such as the Provider Portal, INSPIRE, and MAX effectively capture user activity, particularly related to viewing records. Although some audit data is available, access is limited and often requires navigating through additional channels. As such, evaluating the feasibility of improving user activity tracking may be investigated/considered as part of future development planning.	



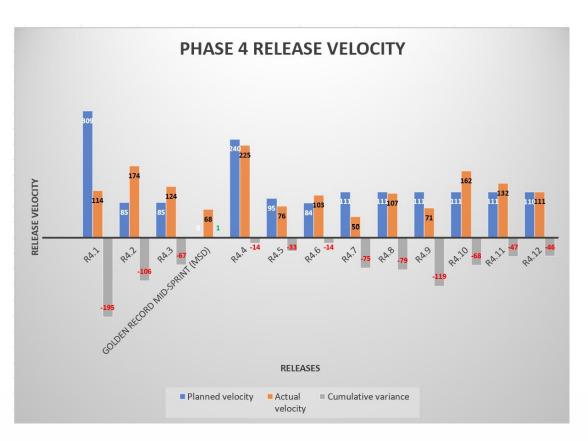
IV&V Findings & Recommendations Project Performance Metrics

Metric	Description	IV&V Observations	IV&V Updates			
	Review and validate the velocity data as reported by the	May: R4.12 was deployed to production on 5/29/2025.	Velocity Metric Trends:			
Velocity	project • Verify the project is on pace to hit the total target number of US/USP		Release	Planned velocity	Actual velocity	Percentage attained
			R4.12	110	111	100

IV&V Findings & Recommendations Project Performance Metrics

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	111	132	-47
R4.12	110	111	-46



Note: The SI has been working on areas not currently reflected in the velocity numbers shown in the table above.

Once the SI provides those velocity figures, IV&V can incorporate them into the table.

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Project Performance Metrics (cont'd.)

Metric	Description	IV&V Observations	IV&V Updates
Defect Metrics	 Understand and track the following: Defects by category (bug fixes) USPs assigned to defects in a release vs. USPs assigned to planned US in a release 	May - Velocity was estimated at 110 USPs for R4.12, 111 R4.12 USPs were promoted to production on 5/29/25. 25 of the 111 USPs were for defect fixing. •77% of the USPs were associated with user stories and requests. •23%* of the total USPs were associated with defects encountered during the release effort or pulled from the defect backlog.	The defect percentage for May was 23%* 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 AIV&V Rating Scales

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

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

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

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

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

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

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

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

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

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

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

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



R

Appendix A

Finding Criticality Ratings

Criticality Rating	Definition
•	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 May 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
- 12. IV&V Interviews

Eclipse IV&V® Base Standards and Checklists



Artifacts reviewed during the May 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

	August	September	October	November	December		February	March	April	May
User Story Validation										
Test Practice Validation										
Sprint Planning Release /										
Deployme nt Planning										
OJT and KT Sessions										
Targeted KT_										
Project Performa nce Metrics										
Organizati onal Maturity Metrics										
General Project Managem ent										
Resource Managem ent										
Total Open Findings	12	14	14	14	14	14	11	10	9	10
Issue - high	0	0	0	0	0	0	0	0	0	0
Issue - medium	8	10	10	10	10	10	7	9	7	7
Issue -	1	1	1	1	1	1	3	0	0	0
Risk - high_	0	0	0	0	0	0	0	0	0	0
Risk - medium	2	2	2	2	2	2	1	1	1	0
Risk -	0	0	0	0	0	0	0	0	1	1
Preliminar y Concern	1	2	2	2	2	2	0	0	0	1



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 Item Type ▼	Divisi ▼		State	▼ Prior ▼	Severity	▼ Founc -	Created Date 🔻	RCA Categories
			Bug - Calculator 3.0 - Users able to schedule service past ISP end date						
1 33841	Bug	DDD	again	Pending Approval	3	3 - Mediu	m PROD	5/17/2023 8:22	
2 34110	Bug	DDD	Bug - Individual Budget unlinking from Service Authorizations	Pending Approval	2	2 3 - Mediu	m PROD	7/27/2023 15:40	
3 34238	Bug	CAMHD	BUG - Assessment Entity Initial Save Time - IMHE	Evaluated_On Hold	2	2 3 - Mediu	m Prod	8/17/2023 2:33	
4 34242	Bug	DDD	Bug - Case Merge - Contact Notes not merging; Permissions error	New		3 - Mediu	m PROD	8/17/2023 8:44	
5 30634	-	CAMHD	CAMHD Bug - Credentialing documents not copied into PROD during Data Migration	Completed in QA_Te		3 - Mediu		2/16/2021 15:45	
6 30726	Bug	DDD	Portal signature fields do not accept touchscreen input	Evaluated_On Hold	2	2 3 - Mediu	m PROD	9/17/2021 9:07	
7 34969	Bug	DDD	DDD - Duplicate Provider Plans	Completed in QA_Te	est 1	L 3 - Mediu	m PROD	2/23/2024 5:58	
8 33550	Bug	CAMHD	Bug: "Progress Notes Associated to Invoices" page not loading	New	3	3 - Mediu	m PROD	3/31/2023 17:11	
9 35278	Bug	DDD	$\label{eq:decomposition} \mbox{DDD-Cal} 3.0 - \mbox{BiMonthly Recurrence authorization not taking into account } \mbox{Unit of Service}$	Pending Approval	2	2 3 - Mediu	m PROD	6/3/2024 11:53	
10 35317	Bug	DDD	DDD - Plan Services with no Provider Plan	Active	2	2 3 - Mediu	m PROD	6/24/2024 9:06	
11 36383	Bug	DDD	DDD - Calculator problem with paid base and add on	New	2	2 3 - Mediu	m PROD	9/26/2024 9:19	
12 36854	Bug	DDD	DDD - Inspire - backed up ISP in the wrong place Both - "On deactivation of Plan Service - deactivate related Provider Plan	Completed in QA_Te	est 1	I 3 - Mediu	m PROD	10/31/2024 3:13	
13 37186	Bug	Both	Service Flow" issue	Completed in QA_Te	est 1	I 3 - Mediu	m PROD	12/6/2024 9:10	Environmental Discrepancie
			DDD - Data Update to Account for Missing Provider Plan Value on Plan						Zimoimonat Bissispansis
14 37663		DDD	Service	Completed in QA_Te		1 3 - Mediu		1/23/2025 8:01	
15 37694	Bug	DDD	DDD - TCM batch file date is different in PROD from other environments	Pending Approval	2	2 3 - Mediu	m PROD	1/29/2025 8:25	
16 37733	Bug	DDD	DDD - Incorrect Columns displaying on Provider Plan subgrid (Action Plan tab of ISP)	Evaluated_On Hold	1	I 3 - Mediu	m PROD	2/5/2025 5:37	
17 37791	Bug	DDD	DDD - CIT Referral: Create Document Location Flow Failures	Pending Approval	2	2 3 - Mediu	m PROD	2/10/2025 9:30	
18 35450	Bug	DDD	DDD - Calculator not printing correctly	Pending Approval	2	2 3 - Mediu	m PROD	7/26/2024 8:36	
19 37793	Bug	DDD	DDD - ISP Report Generation Issues	New		2 3 - Mediu	m PROD	2/10/2025 10:06	
20 38391		DDD	DDD - Inspire AER - RN signature disappears	Completed in QA_Te		2 3 - Mediu		2/27/2025 8:27	
21 38496		DDD	DDD - CMU Supervisor DashboardLOC subgrid is blank	Completed in QA_Te		L 3 - Mediu		3/5/2025 4:24	Design Errors
22 38529	-	DDD	DDD - AER Remediation Plan of Action Print Name field	Completed in QA_Te		2 3 - Mediu		3/10/2025 3:31	•
.2 00020	Dug	555	755 Activenediatem and Active Milk Name lett	Completed in Q/_re	250 2	o ricaia	III THOD	0/10/2020 0.01	Design Errors
23 38625	Bug	DDD	DDD - Calculator mid-year changes not saving	New	2	2 3 - Mediu	m PROD	3/14/2025 8:14	
00440	Dona	CAMUS	CAMHD - Remove single quotes in texts in Provider Referral "Selected for	0		0 M-1	DDOD	0/00/0005 10:00	
24 39412			Service": Creation of Sub-folders in Provider Portal Document flow	Completed in QA_Te		2 3 - Mediu		3/20/2025 10:20	
25 39797	Bug	DDD	DDD - AER entry error when Provider tried to submit the AER	New	- 2	2 3 - Mediu	m PROD	4/16/2025 5:29	
26 39977	Bug	DDD	DDD - ABAS Scores not populating correctly on Case Summary when record is deactivated	Completed in Dev	2	2 3 - Mediu	m PROD	5/6/2025 8:31	





Solutions that Matter

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner	
2	Regression testing	The lack of comprehensive automated regression	R3.3 introduced a defect that deprecated features in	To ensure effective Tosca testing, it is crucial for both divisions to	5/31/25 - Regression testing was successfully executed from 5/19/2025 to 5/28/2025. PCG's Phase 1 analysis of	Test Practice	Issue	Medium	Open			12/31/2019	Gautam Gulvady	
_		testing has likely led to post-production defects,	production specific to Integrated Support and Life	align on a unified resource allocation strategy. Given the limited	DDD's test infrastructure has facilitated its selection of a hybrid approach centered on creating automated regression	Validation						,,	,	
		causing user frustration.		availability of resources, open communication and consensus-	tests. The Tosca Automated Regression Testing SME is streamlining the DDD tests to integrate with CAMHD tests, an									
		-	are other examples of functionality being deprecated after	building are essential for optimizing tester utilization. By	effort expected to reduce manual testing time, improve test reliability, and provide a unified framework.									
			a release, some of which are still being investigated. As of	collaborating to prioritize testing efforts, share critical test cases,										
			this report, IV&V has not evaluated the project's root cause	and identify overlapping areas, the divisions can achieve	4/30/25 - R4.11 Regression testing was successfully executed from 3/25/2025 to 4/2/2025. CAMHD executed both									
			analysis (RCA) process used to determine why such	comprehensive regression testing without overburdening a single	manual and automated tests, while DDD carried out manual regression testing.									
			functionality was deprecated but will discuss further with	resource. This collaborative approach will balance workloads,	In April 2025, the project onboarded a Tosca Automated Regression Testing SME. The overall approach for									
			BHA in January 2020.	streamline processes, and enhance test coverage, minimizing delays	automated regression testing will be finalized by the end of April 2025, with execution continuing through May 2025.									
			Thorough vetting and validation of regression test cases	and bottlenecks. Ultimately, it will enable both divisions to	The INSPIRE project will have an updated suite of automated test scripts, along with knowledge transfer and training									
			are necessary to prevent defects when a release is pushed	efficiently meet their testing objectives.	for the identified DDD staff.									
			live. When defects occur in production, the project should											
			follow a defined and repeatable process for determining	A balanced approach that combines manual and automated	3/31/25 -The SI has updated the AER regression test scripts. Regression testing for R4.11 began on 3/25/25 and is									
			the root cause of the problem.	regression testing to ensure broad test coverage and flexibility.	scheduled for completion by 4/2/25. For this release, CAMHD will perform both manual and automated testing,									
					while DDD will primarily focus on manual regression testing. To ensure continued support for future Phase 4									
				 Having board(s) in Azure DevOps or a document on SharePoint that provides information about the status of regression testing 	releases—R4.12 and beyond—the project will be onboarding a Tosca Automated Regression Testing Subject Matter Expert (SME) in early April 2025, with work scheduled to begin subsequently. This effort is expected to take place in									
				automation, to facilitate visibility and transparency to BHA project	April and May 2025. Upon completion, the INSPIRE project will have a fully updated and comprehensive set of									
				personnel and stakeholders.	automated test scripts. Additionally, documentation, knowledge transfer, and training will be provided to the DDD									
				personner and stakenoiders.	staff to ensure they can effectively maintain and update the scripts going forward.									
				4. IV&V recommends reevaluating the schedule priorities by	Start to crouse they can encestery maintain and aparte the seripts going to ward.									
					2/28/25 - Regression Testing for R4.11 is scheduled from 3/25/2025 to 4/2/2025. CAMHD will perform both manual									
				ensure that the schedule is not impacted and that the work is done	and automated tests, while DDD will focus exclusively on manual regression testing. To support future Phase 4									
				efficiently between regression testing and Golden Record (GR).	releases, including R4.11 and beyond, the project will onboard a Tosca Automated Regression Testing SME, with the									
				, , , , , , , , , , , , , , , , , , , ,	work set to begin on 3/10/2025. The SI has uploaded and executed one regression test case for the AER project and is									
				5. Pursue and complete additional formal training in Azure DevOps	preparing additional regression test scripts with estimated completion before the R4.11 go-live.									
				and Tricentis for test automation as soon and complete efforts to	, g g g g									
				automate the two primary regression test scripts.	1/31/25 - Regression Testing for R4.10 is scheduled from 1/29/2025 to 2/5/2025. One defect (view on the DDD									
				· · · ·	supervisor dashboard) has come out of regression testing. CAMHD will conduct a mix of manual and automated									
				6. IV&V recommends DDD and CAMHD to develop a common and	testing, while DDD will focus on manual regression testing. To support future Phase 4 releases beyond R4.10, the									
				consistent approach across divisions for performing regression	project plans to onboard a Tosca automated regression testing Subject Matter Expert (SME). The plans and timeline									
				testing.	for Tosca automated regression testing are being reviewed, with plans to commence work on 3/1/2025. For the AER									
					project, the SI is preparing to conduct regression testing on AER functionality.									
14	Code quality	Due to multiple quality concerns, the project may	System defects identified in August that affected claims	IV&V recommends:	5/31/25 - R4.12 was deployed to production on 5/29/25, followed by successful smoke testing on 5/30/2025. Users		Issue	Medium	Open			9/30/2020	Gautam Gulvady	
		continue to face impactful system defects.	were due to multi-faceted quality issues were individually	 Closer collaboration between divisions to review reported defects, 	have reported three (3) production defects which the project team is analyzing. During May 2025, one new medium-	Development								
			addressed during this reporting period. IV&V notes that	ensuring a shared understanding and alignment, particularly	severity production defect was reported. The project team continues remediation of existing production defects (see									
			there is one remaining defect still being evaluated that	regarding the severity and priority of production defects.	Appendix E), though resolution of lower-priority issues has been delayed as BHA focuses on higher-priority tasks.									
			affects a limited number of claims. Overall, the Project	L	Additional production defects may emerge as users continue to engage with the R4.12 functionality post-go-live.									
			Team has responded with a commitment to increase	Consider exploring tools and practices that support continuous	IV&V will continue to monitor key areas, including R4.12, FHIR implementation, any Mid-Sprint Deployments (MSDs),									
			project quality and is in the process of identifying improvements to associated testing processes. These	code quality improvements that could help to establish quality standards and assure high-quality code that is secure and can be	and the AER solution.									
			currently include: Performing Revenue Neutrality Testing	easily maintained.	4/30/25 - R4.11 was successfully deployed on 4/3/2025, with Smoke Testing successfully completed on 4/4/25. A									
			to ensure expected revenue streams are largely unchanged	easily maintained.	Mid-Sprint Deployment (MSD) was also performed on 4/18/25, which included four (4) User Stories.									
				3. The project increases comprehensive testing prior to joint testing	One of the two previously reported high-severity defects was resolved and deployed with R4.11. The second issue									
			Testing, User Acceptance Testing, Performance Testing,	to reduce the burden on BHA testers and reduce post-production	appeared to be related to a Microsoft service error and was resolved on 4/18/25, when Microsoft performed a									
			and Regression Testing for Release 3.10. IV&V will	defects.	rollback. Additional unresolved production defects have been identified following the R4.11 deployment, and the	l					1			l
			continue to monitor the testing efforts throughout the		project team is currently working to confirm the number of new defects. The project team continues to address other	l		1	I		1			
			balance of Release 3.10 and validate that enhanced quality	4. The SI vendor add a "Found In" column to the daily scrum file to	outstanding production defects (see Appendix E for details). BHA is currently prioritizing higher-severity tasks, which	l		1	I		1]	
			processes, including industry standard regression testing,	indicate the environment where each defect was identified.	have delayed the the resolution of lower-priority issues; however, remediation efforts remain ongoing. IV&V will									
			continue for Agile Release 3.11 forward. Finally, IV&V		closely monitor R4.11, FHIR implementation, any Mid-Sprint Deployments (MSDs), and the AER solution.	l					1			l
			reviewed and provided feedback on the Help Desk and	5. The SI vendor provides the total number of defects in production		l		1	I		1]	
			Semantic Layer design documents per request and found	and reports these numbers regularly to BHA.	3/31/25 - The AER solution is in production. The project team closely monitored the solution to ensure stability,	l		1	I		1]	
			that both documents lacked design details.		quickly resolve issues, and help users adjust to the new system (also known as Hypercare); Hypercare ended on									
			The identified quality issues have negatively affected DOH	6. The project evaluate existing project staff skills and experience	3/21/25 and the project is prioritizing the product backlog. The AER team worked diligently to close all defects	l					1			l
			billing processes and DOH has stated these are the most	level to ensure they meet BHA support requirements.	reported during Hypercare. The AER solution's progress is being discussed in regular meetings between key	l		1	I		1]	
			impactful defects discovered to date.		stakeholders.	l					1			l
			ĺ	7. The project perform CAMHD revenue neutrality fiscal balance	Since the deployment of R4.10 on 2/6/25, the project has identified additional unresolved production defects,	l		1	I		1]	
			ĺ	testing on a quarterly basis to ensure revenues are as expected.	including 1 high-severity defect, in Azure DevOps (ADO) (see Appendix E for details). BHA is prioritizing higher-	l		1	I		1			
			1		priority tasks, which has delayed the resolution of these lower-priority issues, although remediation efforts are	l					1			l
			1	8. The project assign dedicated resources to provide oversight of	underway.	l					1			l
			1	CAMHD Fiscal Processes.	The R4.11 go-live is scheduled for 4/3/25. IV&V continues to express concern about code quality and will closely	l					1			l
			1	L	monitor R4.10, FHIR, any MSDs, and the AER solution.	l					1			l
			1	The project monitor implemented improvements for effectiveness.	Alphilas page 11 to 11 to 12 to 12 to 13 to 14 to 15 t	l					1			l
			1		2/28/25 - R4.10 was deployed to production on 2/6/2025. That same day, users reported a critical defect, prompting	l					1			l
			ĺ	Performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement.	the deployment of a hotfix with a workaround on 2/7/2025.	l		1	I		1]	
1	1		I and the second	release deployments for continual quality improvement.	Following the deployment of R4.10, the project has recorded five additional unresolved production defects: two high	1	1	1	1	1	1	1	1	

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 Behavioral Health Administration	Key BHA project resources have reported constraints on		5/31/25 - BHA is currently facing resource challenges in security monitoring, including limited staff for managing	Resource	Issue	Medium	Onen			8/18/2023	Michael Fors	
34		(BHA) project resources could lead to reduced	how much time they can devote to the project. The	ľ	security tasks, no dedicated person to review audit logs, and a lack of tools for efficient log analysis. To address these		13300	Wicaidiii	Орен			0/10/1023	WHICHIGETTOTS	
		productivity and project delays.	departure of the Child and Adolescent Mental Health		issues, the team is exploring several options, such as engaging a cybersecurity consultant and requesting additional									
		p, p,,	Division (CAMHD) System Management Office Manager		funding for security support. In the short term, they are also exploring the incorporation of cybersecurity tasks into									
			and CAMHD Inspire Project Lead could further impact the		existing administrative roles.									
			project if DOH cannot acquire suitable resources. The lack											
			of capacity of the DOH test script developer has slowed		4/30/25 -To address a few of the resource challenges the project has faced, in early April 2025, DDD onboarded a									
			DOH's automated test script development.		Tosca Automated Regression Testing Subject Matter Expert (SME). To support a successful onboarding, DDD provided									
			If BHA is unable to fully staff the project and their existing		system demos, training materials, and facilitated collaboration with the CAMHD and SI team. Internal DDD resources									
			resources continue to be constrained, the project could		have been identified for knowledge transfer related to regression testing. This will enable an effective transition for									
			experience a reduction in productivity and project delays.		maintaining the automated testing suite. Additionally, CAMHD and DDD are actively working to identify and secure									
			, , , , , , , , , , , , , , , , , , , ,		resources to support the Business Analyst roles.									
					3/31/25 - BHA is actively documenting knowledge to manage staff transitions and reduce resource strain. The team									
					is 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 the help desk system. To improve consistency and visibility, BHA is working to ensure all relevant issues									
					are properly logged as help desk cases when appropriate. To further address the resourcing challenge, DDD will be									
					onboarding a Tosca Automated Regression Testing Subject Matter Expert (SME) in early April 2025 to improve cross-									
					training and support. The kickoff meeting took place on 3/17/25. As part of this project, PCG will work with DDD to									
					identify the resources and processes for the ongoing maintenance of regression testing scripts. Additionally, training									
					will be scheduled in May 2025.	l		l	l	l	l	1]	
					2/28/25 - BHA is developing a succession plan to address the potential departure of key personnel and is actively	l		l	l	l	l	1]	
					working on having resources document knowledge as team members transition. This proactive approach aims to									
					ensure continuity and preserve essential information. One example of this effort is creating a knowledge base within									
					the Help Desk system in Dynamics, which serves as a centralized resource for troubleshooting and support processes.									
					By documenting processes, workflows, and troubleshooting steps, BHA ensures that future staff can access the same									
					information and continue operations smoothly, even as experienced team members move on.									
					,, , , , , , , , , , , , , , , , , , , ,									
					1/31/25 - IV&V was informed that some cross-training had been conducted, but concerns remain regarding the									
					insufficient knowledge transfer for critical tasks. While a limited amount of knowledge transfer occurred concerning									
					the provider portal, it was highlighted that more comprehensive cross-training is needed, particularly for the									
39	Deployment process.	Due to on-going deployment processes and	Several post-production bugs have been encountered in the	The project team is recommended to develop and document a	5/31/25 - R4.12 was successfully deployed to production on 5/29/2025. However, there was a misunderstanding	Release/Deployment	Issue	Low	Open				Gautam Gulvady	
		technical execution issues, the Project may	Phase 4 release, R4.4.	formal Root Cause Analysis (RCA) protocol that includes defined	about whether one of the items on the deploy list was actually deployed. IV&V is having discussions with the	Planning			·				•	
		continue to encounter defects and challenges, e.g.,	Regarding the bug, "Human Services Research Institute	triggers for initiating an RCA such as severity 1 or 2 production	deployment team on how the process can be improved to avoid such misunderstandings from recurring. While the	_								
		when releases are in production or in meeting	(HSRI) flow is failing in production" (bug# 34886	defects, recurring issues, or stakeholder-reported impacts. The	project team reports that a Root Cause Analysis (RCA) process exists, IV&V has not received documentation of a									
		projected timelines for production and non-	https://dev.azure.com/DOHBHA/DOH%20BHA%20INSPIRE/	protocol should also establish clear roles and responsibilities for	formalized process. Additionally, formal protocols and defined criteria for initiating RCAs have not yet been									
		production deployments.	_workitems/edit/34886), what is in development and	conducting RCAs and reviewing outcomes, along with setting	established. Specifically, there is no documented guidance outlining the triggers, thresholds, or conditions under									
			deployed is vastly different from what was deployed to	timeframes for completing RCAs following defect identification or	which an RCA is required (e.g., severity, recurrence, or business impact of defects). This gap limits the consistent and									
			production.	release. Additionally, incorporating standardized templates or tools	effective application of RCA practices, reducing their utility in addressing and preventing recurring production issues.									
				for documenting RCA findings and associated corrective actions, as	IV&V encourages timely adoption of these practices to support long-term quality improvement and will continue									
			The root cause for these errors is currently being	well as implementing a tracking mechanism to ensure those actions	monitoring deployment quality across R4.12, FHIR, MSDs, and the AER solution for any related defect trends.	l		l	l	l	l	1]	
			investigated.	are carried out and monitored for effectiveness, will strengthen the		l		l	l	l	l	1]	
				process. Formalizing these elements will help ensure RCA practices	4/30/25 - R4.11 was successfully deployed on 4/3/2025, with Smoke Testing successfully completed on 4/4/25. A	l		l	l	l	l	1]	
			Repeatable documented release and deployment and	are applied consistently, improve visibility into root causes, and	Mid-Sprint Deployment (MSD) was also conducted on 4/18/25, which included four (4) User Stories. One earlier high-									
			resources experienced with deployments will help ensure		severity defect was traced to a Microsoft service error and was resolved on 4/18/25. A second high-severity issue	l		l	l	l	l	1]	
			that mistakes are minimized and that functionality is not	those related to FHIR, MSDs, and AER.	was later identified as deployment-related. While an RCA was documented and shared via email, the issue was not	l		l	l	l	l	1]	
			mistakenly deprecated when deployments take place.		logged in Azure DevOps (ADO) as per standard procedures and was instead tracked informally. Additional unresolved	l		l	l	l	l	1]	
				2. Implement a streamlined Root Cause Analysis (RCA) process to	production defects have been identified following the R4.11 deployment, and the project team is currently working	l		l	l	l	l	1]	
				identify deployment causes and prevent recurrence. To manage	to confirm the number of new defects. Root Cause Analyses (RCAs) are not currently being consistently documented	l		l	l	l	l	1]	
				resource constraints, consider timeboxing RCA efforts—e.g., 1–2	for production defects, and the project has yet to effectively leverage RCA findings to reduce post-production defect	l		l	l	l	l	1		
				hours per defect or a set number of hours weekly. Within this	rates. The project team acknowledges the value of establishing a formal RCA process, and further discussions are	l		l	l	l	l	1]	
				timeframe, focus on gathering context, analyzing causes, and	planned. Implementing a robust RCA process may help reduce defect recurrence by addressing unresolved or	l		l	l	l	l	1]	
				proposing corrective actions. Project PMs can track these actions to	unidentified root causes. IV&V will continue to monitor the deployment quality of R4.11, FHIR, MSDs, and the AER	l		l	l	l	l	1]	
				ensure follow-through.	solution to identify any deployment-related defects.	l		l	l	l	l	1]	
						l		l	l	l	l	1		
					3/31/25 - It remains unclear whether RCAs (Root Cause Analyses) are adequately documented for defects deployed	l		l	l	l	l	1]	
				savings, increased efficiency, consistency, faster time to market,	into production, and whether the project is effectively utilizing RCAs to minimize post-production defects. BHA has	l		l	l	l	l	1]	
				improved collaboration and reliability, scalability, version control	indicated that resource constraints have impeded some RCA efforts. Neglecting to implement RCA processes could									
				integration, and rollback capability.	result in heightened defect rates, including recurring issues due to unidentified and/or unresolved root causes. With	l		l	l	l	l	1]	
1					the R4.11 go-live scheduled for 4/3/25, IV&V will continue to monitor the deployment quality of R4.10, FHIR, MSDs,	l		l	l	l	l	1]	
1				4. Ensure there are adequate and qualified resources to support the	and the AER solution to identify any deployment-related defects.	l		l	l	l	l	1]	
	1			c3urrent deployment processes. This may require the support from						1				
				RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components.	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							1/25/2024 - The R		

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 processes can lead to poor-quality	There is a limited understanding of the testing processes	IV&V recommends enhancing the smoke testing scripts to better	5/31/25 - R4.12 was deployed to production on 5/29/2025, followed by successful smoke testing on 5/30/2025.	Test Practice	Issue	Medium	Onen			1/31/2024	Gautam Gulvady	
	Elillica testing	software, project delays and extended user	and the roles and responsibilities of those involved in the	align with high-risk and business-critical workflows.	However, users subsequently reported three production defects that were expected to have been identified during	Validation	13300	Wicdiani	Орен			1/31/2024	Guatam Guivady	
		acceptance testing.	process. There is no formal process for the development,	As part of this effort, it may be helpful to review recent production	smoke testing. R4.12 regression testing was conducted from 5/19/2025 to 5/28/2025 and completed successfully.	Validation								
		acceptance resums.	review, and approval of test scenarios, test cases, and test	defects to identify areas where test coverage could be improved.	CAMHD and DDD focused on manual regression testing. Additionally, the Tosca automation expert is reviewing									
			results to ensure adequate participation and approval from		current functionality to identify optimization opportunities and is developing recommendations and effort estimates									
			state staff.	a history of defects, along with exploring opportunities for	to enhance the automated regression testing framework. The project team continues to work on resolving									
			When testing user stories 34564 and 34756 on 1/31/24,	automation, can contribute to more efficient and consistent post-	outstanding production defects (see Appendix E). IV&V will continue to monitor key areas, including R4.12, FHIR									
			the test tasks did not reflect the real use cases to give		implementation, any Mid-Sprint Deployments (MSDs), and the AER solution for quality issues.									
				stronger release readiness and help minimize the risk of post-	, , , , , , , , , , , , , , , , , , , ,									
			be tested. As a result, time was expended by testing		4/30/25 - R4.11 was successfully deployed on 4/3/2025, with Smoke Testing successfully completed on 4/4/25. A									
			resources, testing was inadequate, and a user story may		Mid-Sprint Deployment (MSD) was also performed on 4/18/25, which included four (4) User Stories. Additional									
			have been deemed to meet functionality when it did not.	Make efforts to implement a streamlined Root Cause Analysis (RCA)	unresolved production defects have been identified following the R4.11 deployment, and the project team is									
			•	process to identify the causes of defects and prevent recurrence.	currently working to confirm the number of new defects. The project team continues to address other outstanding									
				Due to project resource constraints, propose timeboxing RCA efforts	production defects (see Appendix E for details). The project team has enhanced smoke test scripts to provide more									
				for each defect introduced into production. Timeboxing involves	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									
				of hours per week) for focused Root Cause Analysis (RCA) activities.	shortly thereafter. This regression testing effort is expected to span April and May 2025. The expert will focus on									
				These activities may include quickly gathering defect context,	repairing existing Tosca scripts and reinitiating automated testing efforts.									
				analyzing potential causes, and proposing corrective actions, all										
				within the specified timeframe. Project PM(s) can oversee the	3/31/25 - The AER solution is in production. The project team closely monitored the solution to ensure stability,									
				tracking of corrective actions to ensure completion.	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									
				IV&V recommends that, after fixing a defect, the SI incorporate	reported during Hypercare.									
					Since the deployment of R4.10 on 2/6/25, the project has identified additional unresolved production defects,									
				· ·	including 1 high-severity defect, in Azure DevOps (ADO) (see Appendix E for details), despite testing at the unit,									
				IV&V has requested discussions on various aspects of the INSPIRE	system integration (SIT), regression, joint, and smoke testing levels. In response, the System Integrator (SI) is									
				testing process with a focus on process such as tracking test	enhancing smoke test scripts to provide more comprehensive coverage, including functionality such as the Provider									
				coverage and requirements traceability, considering new	Portal. To further strengthen quality assurance, the project will be onboarding Tosca automated regression testing									
				development of Access Rules, Document management/digitization.	expert in early April 2025, with work scheduled to begin subsequently. The expert will focus on repairing existing									
					Tosca scripts and reinitiating automated testing efforts.									
				A Stakeholder Register helps identify and understand all project										
				stakeholders, ensuring their needs are met and risks are managed	2/28/25 - R4.10 was deployed to production on 2/6/2025. Since the deployment of R4.10, five additional unresolved									
				through effective communication. A RACI clarifies roles and	production defects have been recorded in Azure DevOps (ADO) (see Appendix E for details): two high severity, two									
41	Backlog meetings	The absence of separate dedicated product	Currently, product backlog reviews are done during design	IV&V recommends:	5/31/25 - BHA continues to hold backlog review meetings, with the most recent session conducted in April 2025.	Sprint Planning	Risk	Low	Open			1/26/2024	Gautam Gulvady	
		backlog review meetings can lead to unclear	meetings and/or weekly issues meetings. This can lead to,	BHA continue to conduct these meetings regularly and mature	These efforts represent a positive step toward aligning priorities, managing technical dependencies, and clearly	Sprint Planning	NISK	LOW	Орен			1/20/2024	,	
1		backlog review meetings can lead to unclear priorities, misalignment with stakeholders,	meetings and/or weekly issues meetings. This can lead to,	BHA continue to conduct these meetings regularly and mature	These efforts represent a positive step toward aligning priorities, managing technical dependencies, and clearly	Sprint Planning	NISK	LOW	Орен			1/26/2024	,	
1				BHA continue to conduct these meetings regularly and mature		Sprint Planning	Nisk	204	орен			1/26/2024	,	
		priorities, misalignment with stakeholders,	meetings and/or weekly issues meetings. This can lead to, e.g., scattered focus, limited stakeholder engagement,	BHA continue to conduct these meetings regularly and mature the practice over time, as they provide tangible value in sustaining	These efforts represent a positive step toward aligning priorities, managing technical dependencies, and clearly defining backlog items to support development and testing. While no sessions have yet been scheduled for May,	Sprint Planning	NISK	LOW .	Орен			1/20/2024	,	
		priorities, misalignment with stakeholders,	meetings and/or weekly issues meetings. This can lead to, e.g., scattered focus, limited stakeholder engagement,	BHA continue to conduct these meetings regularly and mature the practice over time, as they provide tangible value in sustaining	These efforts represent a positive step toward aligning priorities, managing technical dependencies, and clearly defining backlog it lems to support development and testing. While no sessions have yet been scheduled for May, IV&V understands that the team is still acclimating to roles and processes. IV&V plans to attend future backlog	Sprint Planning	NISK	EGW	Орен			1/26/2024	,	
		priorities, misalignment with stakeholders,	meetings and/or weekly issues meetings. This can lead to, e.g., scattered focus, limited stakeholder engagement, difficulty in managing complexity, and delayed decision making.	BHA continue to conduct these meetings regularly and mature the practice over time, as they provide tangible value in sustaining project velocity and reducing rework.	These efforts represent a positive step toward aligning priorities, managing technical dependencies, and clearly defining backlog it lems to support development and testing. While no sessions have yet been scheduled for May, IV&V understands that the team is still acclimating to roles and processes. IV&V plans to attend future backlog	Sprint Framing	11.5%	eo.	Орен			1/26/2024	,	
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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 trustration, and could slow resolution of similar defects in the future.	Failure to follow the established defect management process can result in defects being overlooked, inconsistently tracked, or unresolved—leading to increased user fustration and reduced trust in the system. This breakdown also impairs the project team's ability to analyze trends, implement root cause fixes, and prioritize effectively. Over time, neglecting structured defect handling may slow resolution cycles, introduce rework, and degrade overall software quality and service reliability.	example, when a hotfix is deployed to mitigate a defect initially classified as "Circlat" the description/notes section should document that the defect originally had a "Critical" severity rating. 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 and the importance of logging all defects. 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.	in issue tracking. Productive discussions are underway to address critical defects. By reviewing the Help Desk process and addressing any pags. N/BW antiqueste improvements in the overall defect management approach. BHA suspive 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 flig high-severity defects, reporting them to the St. While the our 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 fallenges 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 N&V will review in March 2025 to further determine the risk. 1/31/25 - During this reporting period, there continues to be a delay in creating tickets in Azure DevOps (ADO) for defects. IN&V remains concerned about the project's deviation from the Defect Management process. N&V, BHA and defects. IN&V remains concerned about the project's deviation from the Defect Management process. N&V, BHA and	Project Management	Issue	Medium	Open			9/30/2024	Gautam Gulvady	
					the SI will continue discussions to identify process gaps and determine next steps. 12/31/24 - During this reporting period, users encountered production issues related to the Calculator, including an									
47	Production restarts.	The lack of a governance process for restarting production systems can impact service availability and frustrate end-users and hinder accountability.	Without a defined governance process for restarting production systems, there is increased risk of uncoordinated actions that may lead to unexpected downtime, delayed service restoration, or data integrity issues. This lack of structure can firstrate end-users, reduce confidence in system reliability, and hinder accountability when incidents occur, ultimately affecting BHA's ability to deliver timely and consistent services.	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 Johanned, 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	3/31/25 - BHA has engaged in productive discussions around enhancing the communication protocol, including potential adjustments to advance notice periods, provider notifications, and language preferences, to improve its clarity and effectiveness. However, the updated document has not yet been shared with IV8V for review. 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 truther strengthen the protocol and enhance its effectiveness. BHA shared the draft document with DDD and IV8V for initial review. 3/31/25 - Based on discussions with key members of the deployment team, IV8V 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 restant occurred only once, certain project stakeholders convened to discuss and implement the necessary steps. IV8V 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. 1/31/24 - BHA suggested that the deployment team or the Help Desk team may be best suited to document the process. IV8V renains 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. 1/30/24 - No progress has been made for this reporting period.	Project Management	Issue	Medium	Open			9/30/2024	Gautam Gulvady	

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner	
52	AER	RHA does not currently have a streamlined report	While BHA can determine the number of active AER			Software	Preliminary Concern		Open			5/27/2025	Gautam Gulvady	
32			analytics solution users in production based on user email			Development	r remining y concern		Орен			3/2//2023	Guatam Guivady	
			addresses, the process is manual and lacks a standardized			Development								
			report. Although the need for a reporting feature has been											
			discussed, no formal request has been made to implement											
			it. This limits efficient user monitoring and may impact											
			future efforts to track adoption or support planning. BHA											
			plans to submit a new request.											
53	Monitoring and	Usor activity tracking for viewing records is limited	The BHA team is currently assessing whether systems such			Software	Preliminary Concern	t	Open		t	5/16/2025	Susmitha Rajan	
			as the Provider Portal, INSPIRE, and MAX effectively			Development	r reminiary Concern		Орен			3/10/2023	Susminia ndjdli	
						pevelopment								
		raise potential compliance concerns.	capture user activity, particularly related to viewing			İ		1	l	l	1			
			records. Although some audit data is available, access is											
			limited and often requires navigating through additional											
			channels. As such, evaluating the feasibility of improving					1	l	l	1	1		
			user activity tracking may be investigated/considered as											
			part of future development planning.			İ		1	l	l	1			
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