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July 14, 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 June 1 – June 30, 2025

Final Submitted: July 09, 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 steady progress, with the next system release scheduled to go live on 7/30/2025. This upcoming release will include new features intended to expand system functionality and improve operational efficiency.

The project continues to make efforts to improve their defect tracking and help desk operations as they seek to reduce risks around system downtime and operational inefficiencies. IV&V remains concerned about risks associated with defects being deployed into the production system and the lack of comprehensive root cause analysis (RCA) activities. While the project team has acknowledged these gaps, they have indicated that efforts to address them are still evolving, and they may consider prioritizing RCA efforts later once higher priority functionality has been implemented.

Test automation efforts are progressing under the guidance of the testing automation tool (Tosca) SME, who continues to repair and develop new automated tests to increase testing efficiency, help reduce manual testing, improve system reliability, and improve the overall testing infrastructure.

IV&V remains concerned that BHA continues to face staffing shortages and constraints, which have at times limited the BHA project team's effectiveness in supporting this project. BHA is implementing cross-training to better balance workloads and increase team flexibility, while also exploring additional resources to address capacity constraints and maintain focus on critical project activities.



Apr	May	Jun	Category	IV&V Observations
•	L		Sprint Planning	BHA is actively committed to managing its backlog effectively, focusing on aligning development efforts closely with business priorities. The product owner of DDD works closely with team members to understand business needs and prioritize user stories. There are some challenges with visibility into available user story points and the allocation of work across internal and external resources. CAMHD's backlog meetings are held monthly. Overall, there is room for improvement in planning and coordination to optimize the use of available capacity.
O		L	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.
M	M	M	Test Practice Validation	Test automation efforts are progressing under the guidance of the testing automation tool (Tosca) SME, who continues to refine and develop new automated tests to enhance testing efficiency, reduce manual testing, improve system reliability, and enhance the overall testing infrastructure.



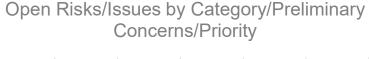
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Apr	May	Jun	Category	IV&V Observations
M	M	M	Release / Deployment Planning	The recent Mid-sprint Deployment (MSD), comprising of defect fixes, was successfully deployed to production on 6/28/2025. While the project team has acknowledged these gaps, they have indicated that efforts to address them are still evolving, and they may consider prioritizing RCA efforts later once higher priority functionality has been implemented.
0	•	•	On-The-Job- Training (OJT) and Knowledge Transfer (KT) Sessions	This category remains Green (low criticality) for the June reporting period with no active findings.
		L	Targeted KT	This category remains Green (low criticality) for the June reporting period. IV&V will continue to monitor.
	L	L	Project Performance Metrics	There are no project performance metrics to report for the June reporting period. IV&V will keep this category's criticality rating Green (low criticality) and will continue to monitor.
	L	•	Organizational Maturity Assessment (OMA)	This category remains Green (low criticality) for the June reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.

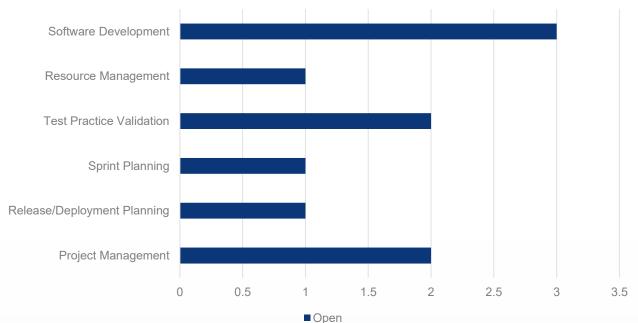


Apr	May	Jun	Category	IV&V Observations
•		•	Project Management	The project continues to make steady progress, with the next system release scheduled to go live on 7/30/2025. This upcoming release will include new features intended to expand system functionality and improve operational efficiency. BHA has provided IV&V with the updated document describing the Production System Restart Communication Protocol. IV&V will review the document and provide feedback based on industry best practices.
M	M	M	Resource Management	BHA faces ongoing resource constraints and has identified cybersecurity tasks such as drafting policies, reviewing procedures, and implementing security protocols that are currently managed alongside regular workloads. These tasks could benefit from dedicated resources with cybersecurity expertise. BHA is implementing cross-training to better balance workloads and increase team flexibility, while also exploring additional resources to address capacity constraints and maintain focus on critical project activities.



As of the June 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 is actively committed to managing its backlog effectively, focusing on aligning development efforts closely with business priorities. The product owner of DDD works closely with team members to understand business needs and prioritize user stories. Requests come from business leads and are then translated into development tasks. There are challenges with visibility into available user story points and the assignment of work across internal and external resources, which may make it difficult to accurately assess the capacity of the team and effectively assign work. Prioritization is based on business needs rather than just story points, with an effort to group related tasks for improved efficiency. CAMHD's backlog meetings are held monthly. Overall, there is room for	L

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 for Release 4.13 is on track for 7/21/2025 to 7/29/2025 and is expected to incorporate manual and automated testing. The Tosca Automated Regression Testing SME is progressing with the automation of DDD test scenarios per the timeline. This effort is intended to reduce manual testing effort, enhance test reliability, and establish a more unified and scalable test framework. To support the accuracy and effectiveness of the automation effort, end-to-end flow recordings of each DDD module have been requested to help with business logic implementation, with particular emphasis on complex, role-based workflows.	M

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
	Medium Issue: Limited testing processes can lead to poor-quality software, project delays, and extended user acceptance testing.	
40	Finding Update: Since the R4.12 deployment to production on 5/29/2025, users have reported five (5) production defects (two (2) high severity and three (3) medium severity) which the project team is actively remediating. This underscores the risk associated with insufficient test coverage across business-critical workflows. Regression testing for R4.13 is scheduled for 7/21/2025 to 7/29/2025 and is expected to include both manual and automated testing. The Tosca Automated Regression Testing SME continues to automate DDD test scenarios an important step toward improving test reliability and reducing manual effort. However, overall test coverage remains limited. Without broader and more comprehensive testing, the risk of post-deployment issues remains elevated. Expanding the scope and depth of testing particularly across high-risk and business-critical workflows, is essential to ensure system stability and reduce defect recurrence in future releases.	M

Recommendations	Status
IV&V recommends enhancing 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.	Open



Release / Deployment Planning (cont'd)

#	Key Findings	Criticality Rating
	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.	
39	Finding Update: A Mid-sprint deployment (MSD) with two (2) defect fixes was successfully deployed on 6/28/2025. IV&V has not yet received documentation of a formalized Root Cause Analysis (RCA) process, including for deployment-related issues. The project team has acknowledged the importance of RCA. While this finding highlights deployments, the absence of defined RCA protocols and criteria such as severity, recurrence, or business impact of defects extends across the broader project. The project team has acknowledged these gaps, they have indicated that efforts to address them are still evolving, and they may consider prioritizing RCA efforts later once higher priority functionality has been implemented. Establishing this framework could help ensure consistent application, support effective remediation of recurring issues, and reduce long-term risk. IV&V will continue to monitor deployment quality across R4.12, FHIR, Mid-Sprint Deployments (MSDs), and the AER solution for any emerging defect trends.	L

Recommendations	Status
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.	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 SI resources to provide assistance and knowledge transfer for some more complex deployment components.	On-going
As appropriate, consult with SI on best practices that BHA could employ to support deployment.	On-going
Request the assistance of the SI 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 SI 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 SI 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



Project Management (cont'd)

#	Key Findings	Criticality Rating
46	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.	
	Finding Update: IV&V will continue to monitor the adherence to the Help Desk and defect management processes.	

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



Project Management (cont'd)

#	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 provided IV&V with the updated document describing the Production System	M
	Restart Communication Protocol. IV&V will review the document and provide feedback based on industry best practices.	

Recommendations	Status
Develop standard procedures for system restarts, including pre-checks, step-by-step instructions, and post-restart verifications.	Open
Require formal approvals before initiating a restart, especially for INSPIRE, and document all actions in a centralized system.	Open
Define clear escalation paths for when restarts do not go as planned, including identifying contacts for technical support and management approval for additional interventions.	Open
Automate Restart Procedures where possible.	Open
The governance process is established, it should be effectively communicated to the project team.	Open
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 continues to face ongoing resource constraints. The project has identified cybersecurity work that would benefit from support by individuals with a relevant background. The project has proactively identified tasks such as drafting security policies, reviewing procedures, and implementing protocols and security monitoring as functions that are currently handled alongside regular workloads. These tasks could be strengthened by the involvement of resources with a cybersecurity background. While external teams, such as Enterprise Technology Services (ETS) and the Health Information Systems Office (HISO), provide valuable support, there is currently no centralized ownership or accountability for cybersecurity within the project team. BHA is implementing cross-training to better balance workloads and increase team flexibility, while also exploring additional resources to address capacity constraints and maintain focus on critical project activities.	M

Recommendations	Status
Consider identifying key security-related activities such as policy development, monitoring, or access oversight that could benefit from additional support. This could help provide clarity for discussions regarding the potential adjustment of existing roles or exploration of alternative solutions. A high-level overview of these activities may assist leadership in evaluating and addressing any potential gaps over time.	Open
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: Since the R4.12 deployment to production on 5/29/2025, users have reported five (5) production defects (two (2) high severity and three (3) medium severity) which the project team is actively remediating. While remediation of existing production defects (see Appendix E) is ongoing, resolution of lower-priority issues has been delayed due to the project's focus on higher-priority tasks.	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
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

Project Management (cont'd)

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



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: BHA submitted a formal request to develop a reporting feature to identify active AER analytics users in production. The project has created a User Request in Azure DevOPs (ADO).	



Software Development

#	Key Findings	Criticality Rating
Prelimina affect tran Finding U editing be system us accessing	Preliminary Concern: User activity tracking for viewing records is limited across systems, which may affect transparency and raise potential compliance concerns.	
53	Finding Update: Currently, gaps exist in monitoring record viewing activity, with only creation and editing being tracked. Previous efforts to log viewing were stalled, likely due to storage concerns. The system uses a business unit hierarchy in Dynamics to control access but does not distinguish between accessing and actively reading records. While random audits are performed monthly by CAMHD/DDD, this process is manual and lacks formal policy backing. This approach may present challenges for ensuring HIPAA compliance and identifying unauthorized access to sensitive data. Without a detailed audit trail for viewing activity, suspicious behavior, particularly from users with higher level permissions may go unnoticed. BHA intends to confirm the minimum required data for HIPAA compliance with legal/compliance (e.g., user ID and timestamp) and evaluate the effectiveness of current audits.	

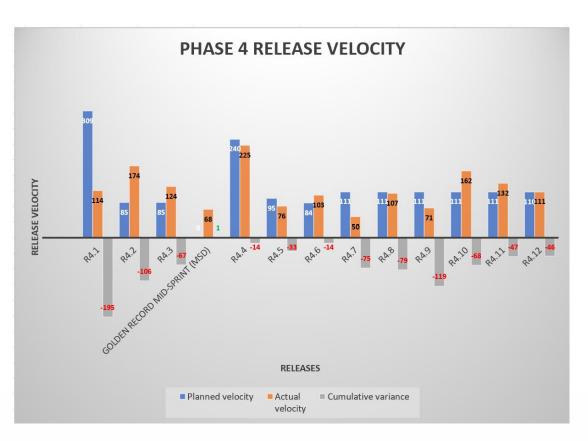
Project Performance Metrics

Metric	Description	IV&V Observations	IV&V Updates						
	Review and validate the velocity data as		Velocity	Metric Tre	nds:				
Velocity	reported by the project	June: A Mid-sprint deployment to production occurred on 6/28/2025. R4.13 is planned for	Release	Planned velocity	Actual velocity	Percentage attained			
velocity	 Verify the project is on pace to hit the total target number of US/USP 	production deployment on 7/30/2025.	R4.13	126	-	-			

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 	June - A Mid-sprint deployment to production occurred on 6/28/2025. R4.13 is planned for production deployment on 7/30/2025.	N/A

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

Appendix A: IV&V Rating Scales

Appendix AIV&V Rating Scales

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

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

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

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

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

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

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

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

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

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

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

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



Appendix A

Finding Criticality Ratings

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



Appendix B Inputs

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

Meetings attended during the June 2025 reporting period:

- 1. Daily Scrum Meetings
- 2. Daily Design Meetings
- Twice-Weekly Project Issues Meetings
- 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. IV&V Interviews

Eclipse IV&V® Base Standards and Checklists

Artifacts reviewed during the June 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

	September	October	November	December	January	February		April	May	June
User Story Validation										
Test Practice Validation Sprint Planning										
Release / Deployment Planning										
OJT and KT Sessions										
Targeted KT_										
Project Performanc e Metrics										
Organizatio nal Maturity Metrics										
General Project Managemen t										
Resource Managemen t										
Total Open Findings	14	14	14	14	14	11	10	9	10	10
Issue - high	0	0	0	0	0	0	0	0	0	0
Issue - medium	10	10	10	10	10	7	9	7	7	6
Issue - low	1	1	1	1	1	3	0	0	0	2
Risk - high	0	0	0	0	0	0	0	0	0	0
Risk - medium	2	2	2	2	2	1	1	1	0	0
Risk - low	0	0	0	0	0	0	0	1	1	1
Preliminary Concern	2	2	2	2	2	0	0	0	1	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	Ty ▼ Divisi ▼		State	Prior Severity Found	Created Date RCA Categories	▼ RCA Description
		Bug - Calculator 3.0 - Users able to schedule service past ISP end				
1 33841 Bug	DDD	date again	Pending Approval	3 3 - Medium PROD	5/17/2023 8:22	
2 34110 Bug	DDD	Bug - Individual Budget unlinking from Service Authorizations	New	2 3 - Medium PROD	7/27/2023 15:40	
3 34238 Bug	CAMHD	BUG - Assessment Entity Initial Save Time - IMHE	Evaluated_On Hold	2 3 - Medium Prod	8/17/2023 2:33	
4 34242 Bug	DDD	Bug - Case Merge - Contact Notes not merging; Permissions error	New	3 3 - Medium PROD	8/17/2023 8:44	
		CAMHD Bug - Credentialing documents not copied into PROD				
5 30634 Bug	CAMHD	during Data Migration	Completed in QA_Test	3 3 - Medium PROD	2/16/2021 15:45	
6 30726 Bug	DDD	Portal signature fields do not accept touchscreen input	Evaluated_On Hold	2 3 - Medium PROD	9/17/2021 9:07	
7 35317 Bug	DDD	DDD - Plan Services with no Provider Plan	Active	2 3 - Medium PROD	6/24/2024 9:06	
8 33550 Bug	CAMHD	Bug: "Progress Notes Associated to Invoices" page not loading	New	3 3 - Medium PROD	3/31/2023 17:11	
9 35450 Bug	DDD	DDD - Calculator not printing correctly	Pending Approval	2 3 - Medium PROD	7/26/2024 8:36	
10 36383 Bug	DDD	DDD - Calculator problem with paid base and add on	New	2 3 - Medium PROD	9/26/2024 9:19	
		DDD - TCM batch file date is different in PROD from other				
11 37694 Bug	DDD	environments	Pending Approval	2 3 - Medium PROD	1/29/2025 8:25	
		DDD - Incorrect Columns displaying on Provider Plan subgrid				
12 37733 Bug	DDD	(Action Plan tab of ISP)	Evaluated_On Hold	1 3 - Medium PROD	2/5/2025 5:37	
13 37791 Bug	DDD	DDD - CIT Referral: Create Document Location Flow Failures	Pending Approval	2 3 - Medium PROD	2/10/2025 9:30	
14 37793 Bug	DDD	DDD - ISP Report Generation Issues	New	2 3 - Medium PROD	2/10/2025 10:06	
15 39797 Bug	DDD	DDD - AER entry error when Provider tried to submit the AER	New	2 3 - Medium PROD	4/16/2025 5:29	
		DDD - ABAS Scores not populating correctly on Case Summary				
16 39977 Bug	DDD	when record is deactivated	Active	2 3 - Medium PROD	5/6/2025 8:31	
		Both -SharePoint: Flows > When an Application is				<div><div><div></div><div><div><div><aiv><aiv><aiv><aiv><aiv><aiv><div><aiv><aiv><aiv><aiv><aiv><aiv><aiv><a< td=""></a<></aiv></aiv></aiv></aiv></aiv></aiv></aiv></div></aiv></aiv></aiv></aiv></aiv></aiv></div></div></div></div></div>
17 40113 Bug	Both	Created/Modified Customer Document Locations (PROD)	Completed in QA_Test	1 2 - High PROD	5/30/2025 11:06 Microsoft Issues	ocation
18 40160 Bug	DDD	AER - Power BI AER dashboard	Completed in QA_Test	2 3 - Medium PROD	6/5/2025 4:27	
19 40233 Bug	DDD	AER - OCB supervisor not receiving AER notification emails	Pending Approval	2 3 - Medium PROD	6/9/2025 10:50	
20 40291 Bug	CAMHD	CAMHD - Progress Note entity Units and Adjusted Units fields are no longer coordinated	Approved	1 2 - High PROD	6/11/2025 0:49	





Solutions that Matter

ID Sh	hort Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner	
Re	egression testing	The lack of comprehensive automated regression testing has likely led to post-production defects, causing user frustration.	R3.3 introduced a defect that deprecated features in production specific to integrated Support and Life Trajectory functionally, DDO has informed IV&V that there are other examples of functionality being depresental after a release, some of which are still being investigated. As of this report, IV&V has not evaluated the project's cost cause analysis (ICAL) process used to determine why such functionality was deprecated but will discuss further with BHA in January 2020. Thorough vetting and validation of regression test cases are necessary to prevent defects when a release is pushed live. When defects occur in production, the project should follow a defined and repeatable process for determining the root cause of the problem.	provides information about the status of regression testing automation, to facilitate visibility and transparency to BHA project personnel and stakeholders.	The INSPIRE project will have an updated suite of automated test scripts, along with knowledge transfer and training for the identified DDD staff.	Test Practice Validation	houe	Medium	Open			12/31/2019	Gautam Gulvady	
				4. IVBV recommends reevaluating the schedule priorities by distributing the work according to the resource bandwidth. This will ensure that the schedule is not impacted and that the work is done efficiently between regression testing and Golden Record (GR). 5. Pursue and complete additional formal training in Ansure DevOps and Tricentis for test automation as soon and complete efforts to automate the two primary regression test scripts. 6. IVBV recommends DDD and CAMHO to develop a common and	\$33,125.—The SI has updated the ARR regression test scripts. Regression testing for R4.11 began on 3/25/25 and is scheduled for completion by 4/27.55. for this release, CAMINUM plerofform both manual and automated testing, while DDD will primarily focus on manual regression testing. To ensure continued support for future Phase 4 releases—R4.12 and beyond—the project will be orbiosoffing a focus Automated Regression Testing. Subject Matter Expert (RME) in early April 2025, with work scheduled to begin subsequently. This effort is expected to take place in April and May 2025. Upon completion, the INSPRE project will have a fully updated and comprehensive set of automated test scripts. Additionally, documentation, incowledge transfer, and training will be provided to the DDD staff to ensure they can effectively maintain and update the scripts going forward. 2/28/25 – Regression Testing for R4.11 is scheduled from 3/25/2025 to 4/2/2025. CAMIHO will perform both manual and									
				consistent approach across divisions for performing regression testing.	automated tests, while DDD will focus exclusively on manual regression testing. To support future Phase 4 releases, including R4.11 and beyond, the project will onboard a Toxca 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 preparing additional regression test scripts with estimated completion before the R4.11 g.o-live.									
Co	ode quality	Due to multiple quality concerns, the project may continue to face impactful system defects.	Acceptance Testing, Performance Testing, and Regression Testing for Release 3.10. IV&V will continue to monitor the testing efforts throughout the balance of Release 3.10 and validate that enhanced quality processes, including industry standard regression testing.	INBV recommends: 1. Closer collaboration between divisions to review reported defects, ensuring a shared understanding and alignment, particularly regarding the seventry and priority of production defects. 2. 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 seven and can be easily maintained. 3. The project increases comprehensive testing prior to joint testing to	630/125 - Since the R4.12 deployment to production on 5/29/2025, users have reported five (5) production defects (two (2) high severity and three (3) medium severity which the project team is actively remediating. While remediation of existing production defects (see Appendix 6) is orgoing, resolution of lower-priority issues has been delayed due to the project's focus on higher periority tasks. VAV will continue to monitor between several production and 8.12 defect resolution (13/125-814.2) was delayed to production of 5/29/15, followed by successful monitor testing on 5/30/2025. Users have reported the most on 5/29/15, followed by successful monitor testing on 5/30/2025. Users have reported the most office of the several 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 defect (see Appendix 6), 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 eneage with the R412 functionally prote golive.	Software Development	Issue	Medium	Open			9/30/2020	Gautam Gulvady	
			continue for Agile Releases 3.11 forward. Finally, IV&V reviewed and provided feedback on the Help Deks and Semantic Layer design documents per request and found that both documents lacked design details. The identified qualify issues have negatively affected DOH billing processes and DOH has stated these are the most impactful defects discovered to date.	reduce the burden on BHA testers and reduce post-production defects. 4. The SI vendor add a "Found in" column to the daily scrum file to indicate the environment where each defect was identified. 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 staff skills and experience level to ensure they meet BHA support requirements.	4/30/25 - R4.11 was successfully deployed on 4/3/205, with Smoke Teating successfully completed on 4/4/25. A Mid- Sprint Deployment (MSD) was also performed on 4/18/25, which included four (4) User Stories. One of the two personally 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 recoived on 4/18/25, when Microsoft performed a rollback. Additional unresolved production defects have been demitted following the R4.11 deployment, and the project ream is currently working to confirm the number of new defects. The project team continues to address other outstanding production effects (see Appendix for defails), Bifs is currently profitting highly-se-everly tasks, which have delayed the the resolution of lower-priority fauses, however, emediation efforts remain ongoing, VMSV will closely monitor R4.11, PHR implementation, any Mid-Sprint Deployments (MSD), and the ARR solution.									
				on a quarterly basis to ensure revenues are as expected. 8. The project assign dedicated resources to provide oversight of CAMMD Fiscal Processes. 9. The project monitor implemented improvements for effectiveness.	\$13,135. The AER colution is in production. The project team closely monitored the colution to ensure stability, quickly resolve issues, and help users adjust to the new system (also known as Hypercare): Hypercare lended on 3/21/25 and the project is prioriting; the product backler, The AER team worked diligently to obe all defects reported during Hypercare. The AER solution's progress is being discussed in regular meetings between key stakeholders. Since the deployment of Rs. 100 n 3/25/2, the project has deferred in experience production defects, including 1 high-severity defect, in Autor DecOps (ADO) (see Appendix For details). SHA is prioritizing higher priority tasks, which has deleyed the resolution of these lover-priority sizeus, which produce the stable of the AER of the AE									
Lit	imited BHA resource:	s Shortage of Behavioral Health Administration	Key BHA project resources have reported constraints on how much time they can devote to	11. BHA and the SI collaborate on the necessary revisions to the	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. R5/30/25 - BHA continues to face nonjoing resource constraints. The project has identified cybersecurity work that would	Resource	Issue	Medium	Open			8/18/2023	Michael Fors	
		(BHA) project resources could lead to reduced productivity and project delays.	the project. The departure of the Child and Adolescent Mental Health Division (CAMHD) System Management Office Manager and CAMHD Inspire Project Lead could further impact	1.Consider identifying key security-related activities such as policy development, motioning, or access overlight that could benefit from additional support. This could help provide clarity for discussions regarding the potential adjustment of existing roles or exploration of alternative solutions. A high-level overview of these activities may assist leadership in evaluating and addressing any potential gaps over time. 2. BHA implement a structured knowledge transfer process when key	benefit from support by individuals with a relevant background. The project has proactively identified tasks such as drafting security goildies, relevant postiogs, and postiogs and security monitoring as functions that are currently handled alongside regular workloads. These tasks could be strengthened by the involvement of resources with a dysensourly background. While extens teams, such as functions it response to relevant postions of the relevant pos	Management								
				personnel retire, including cross-training and documenting critical howdedge in the Dynamics Help Desk system. Regular updates to the knowledge base will maintain its accuracy, preserve essential information, and support smooth operational continuity. 3. Utilizing peer-to-peer knowledge sharing, allowing experienced team members to informally share their expertise during team meetings. Additionally, creating internal documentation that outline best	5/31/25 - 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 ophereuity 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. 4/30/25-To address a few of the resource challenges the project has faced, in early April 2025, DDD onboarded a Tosca									
				practices and processes for developing security policies would serve as a self-service resource for the team. 4. DDD and CAMHD have further discussions to optimize resource utilization between the two divisions.	Automated Regression Testing Subject Matter Expert (SME). To support a successful onboarding, DOD provided system demos, training materials, and facilitated collaboration with the CAMHD and St team. Internal DOD resource 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.									
				BHA should explore options for offloading project team members' daily responsibilities to other staff. BHA should work quickly to create new positions and receive State	\$/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 dest system. To improve consistency and valuibility, BHA is working to ensure all relevant issues are properly logged as help dest system. To improve consistency and valuibility, BHA is working to ensure all relevant issues are properly logged as help dest system. To improve consistency and valuibility, BHA is working to ensure all relevant issues are properly logged as help dest system. To improve the system of the s									
				approval. 7. 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.	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 juke on 3/17/25. As part of this project, TeC 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.									

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39	Deployment process.	Due to on-going deployment processes and technical execution issues, the Project may continue to encounter defects and challenges, e.g., when releases are in production or in meeting projected timelines for production and non-production deployments.	Several post-production bugs have been encountered in the Phase 4 release, R4.4. Regarding the bug-"Human Services Research Institute (HSRI) flow is failing in production' (bug# 34886 https://dev.aures.com/DOHBHA/DOHS/208HAX/20INSPIEE/_workitems/edit/34886), what is in development and deployed is vastly different from what was deployed to production. The root cause for these errors is currently being investigated.	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,	RCA protocols and criteria such as severity, recurrence, or business impact of defects entends across the broader project. The project team has acknowledged these gaps, they have indicated that efforts to address them are still evolving, and they may consider prioritizing RCA efforts at a later date once higher priority functionality has been implemented. Establishing this framework conduct help ensure consistent application, support effective remediation of recurring issues, and reduce long-	Release/Deployment Planning	Issue	Low	Open				Gautam Gulvady	
			Repeatable documented release and deployment and resources experienced with deployments will help ensure that mistakes are minimized and that functionality is not mistakenly deprecated when deployments take place.	Incorporating standardized templates or tools for documenting RCA findings and associated corrective action, 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	term risk. IV&V will continue to monitor deployment quality across R4.12, FHIR, Mid-Sprint Deployments (MSDa), and the AER solution for any emerging defect trends. \$731/25 - R4.12 was successfully deployed to production on \$7/29/2025. 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 insunderstandings 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 orteria for initiating RCAs have not yet been established. Specifically, there is no documented guidance outlings the triggest, thresholds, or conditions under which an RCA is required (e.g., exertly, 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 procurious prosuction sizes. WAY encourages: timely apolition of the practices to support tong-free defects).									
40	Limited testing	Limited testing processes can lead to poor-quality software, project delays and extended user acceptance testing.	There is a limited understanding of the testing processes and the roles and responsibilities those involved in the process. There is no formal process for the development, review, and approval of test scenarios, test cases, and test results to ensure adequate participation and anonroul from state staff.	overall to better align with high-risk and business-critical workflows. As	may help reduce defect recurrence by addressing unresolved or unidentified root causes. NSV will continue to monitor the deployment quality of R4.11, FHIR, MSDs, and the AER solution to identify any deployment-related defects (6/30/25 - Since the R4.12 deployment to production on 5/29/2025, users have reported five (5) production defects (two (2) 1) high severity and three (3) medium severity) which the project team is actively remediating. This underscores the risk associated with insufficient test coverage across business-critical workflows. Regression testing for R4.13 is scheduled for 1/21/2025 to 7/29/2025 and its executed to include both manual and automathed testing. The Tocas Automated Reversion	Test Practice Validation	Issue	Medium	Open			1/25/2024 - The R4 1/31/2024	Gautam Gulvady	
			When testing user stories 34564 and 34756 on 1,317,174, the test tasks did not reflect the real use cases to give stakeholders adequate confidence that the user story could be tested As a result, time was expended by testing resources, testing was inadequate, and a user story may have been deemed to meet functionality when it did not.	include (incorporating a broader range of testing techniques such as negative testing [e.g., invalid inputs or edge cases), boundary testing, role-based scenario testing, and end-to-end workflow validation. Expanding the scope of testing in this way will help uncover hidden defects, improve system robustness, and reduce the likelihood of post-deployment issue. 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 innimites the risk of post-deployment issues.	Testing SME continues to automate DDI test scenarios an important step toward improving test reliability and reducing manual effort. Newer, overall test coverage remains limited. Without broader and more comprehensive testing, the risk of post-deployment issues remains elevated. Expanding the scope and depth of testing particularly across high-risk and business-critical workflows, is essential to ensure systems stability and reduce defect recurrence in future releases. 5/31/25-88.1.2 was deployed to production on 5/29/2025, followed by successful smoke testing on 5/30/2025. Notweer, 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 5/29/2025 and completed successfully. Cathly and DDD focused on manual regression testing 4/ditionally, 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 monthor key areas, including R4.12, FHIR implementation, any Mid-Sprint Deployments (MSDs), and the AER solution for quality issues.									
				2. 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 tembohing 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(j) can oversee the tracking of corrective actions to ensure completion.	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 existing Tosca scripts and reinitiating automated testing efforts. 3/31/25 - The AER solution is in production. The project team dosely monitored the solution to ensure stability, quickly									
				IV&V recommends that, after fixing a defect, the SI incorporate relevant test cases to validate these fixes in subsequent releases.	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 reported during Hypercare. Since the deployment of R4.10 on 3/6/25, 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, system integration									
41	Backlog meetings	The absonce of separate dedicated product bar- review meetings can lead to undear priorities, misalignment with stakeholders, inadequate refinement, and increased risk of scope creep.	g Currently, product backlog reviews are done during design meetings and/or weekly issues meetings. This can lead to, e.g., scattered forcus, limited stakeholder engagement, difficulty in managing complexity, and delayed decision making. A product backlog review is an essential part of agile project management, particularly in Scrum. It's a collaborative meeting where the Scrum team, including the Product Owner, Scrum Master, and development team members, inspect and adapt the product backlog relevant, up-to-date, and aligned with the project's goals and priorities. Here's a summary what typically happens during a product backlog. This involves discussing each item, understanding its priority, value, and acceptance criteria. 2. Ensuring Clarity. The team ensures that each backlog fiem is clear and well-understood. Any ambiguities or uncertaintiles are clarified at this stage.	practice over time, as they provide tangible value in sustaining project velocity and reducing rework. 2. CAMHD and DDD implement a structured feedback management process with a prioritization framework to ensure that all new requests are throughly evaluated and aligned with project goals before being added to the backlog.	6/30/25 - BHA is actively committed to managing its backlog effectively, focusing on aligning development efforts closely and thus the surprise. The product owner of DDD works closely with brainer members to understand business needs and prioritize user stories. Requests come from business leads and are then translated into development tasks. There are challenges with visuality into available user story points and the assignment of work across internal and external resources, which may make it difficult to accurately assess the capacity of the team and effectively assign work. Prioritization is based on business needs rather than just story points, with an effort to group related tasks for improved efficiency. CAMHO'S backlog meetings are held monthly. Overall, there is room for improvement in planning and coordination to optimize the use of available capacity. 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 teams is still acclimating to roles and processes. IV&V plans to attend future backlog prioritization meetings to support this effort. 4/30/25 - IV&V was invited to attend the DDD Backlog Prioritization Meeting. Several key items were discussed, including: -Apple Health	Sprint Planning	RUM	LOW	upen			1/26/2024	Gautam Gulvady	
			techniques like story points or relative sizing to estimate the effort required for each item. A Re-prioritization Based on new inshight, changes in requirements, or stakeholder feedback, the team may need to re-prioritize items in the backlog. 5. Removing or Adding Items: Items that are no longer relevant or necessary may be removed from the backlog. New items that emerge or are identified as important may be added. 6. Refinement: Backlog refinement may also occur during the review. This involves breakin down large items into smaller, more manageable ones, or adding more detail to Items as needed.	 N/8V recommends scheduling separate dedicated product backlog review meetings (during Sprints) where all relevant stakeholders are invited to review her 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). 	"Are iteman "Calculations" Calculations and Customer Portal Documents -Provider these estimations. VRAV is reducing the risk rating from mendium to low due to the progress made in backlog prioritization and engoing efforts to complete estimations. 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 well-defined for development and testing, helping to maintain project velocity and minimize revoors.									
			2. Collaboration: The review is a collaborative effort involving the entire Scrum Issm. It's a opportunity for open discussion and sharing of diess to sense verveyone is aligned on the goals and priorities. 8. Updating Documentation: Any updates or changes made during the review should be documented to ensure transparency and visibility for all stakeholders. 9. Feedback Loop: The review often generates feedback that can be used to improve the backing management process or refine future backing Items. 3. Sprint Planning Preparation: The outcomes of the product backing review help inform		2/28/25 - BHA plans to schedule other backlog review meetings and will notify IV&V accordingly. While some meetings have already occurred, a consistent backlog review schedule is still being established. Efforts are also underway to improve the backlog review process. Regular meetings and process enhancements will help ensure alignment, facilitate timely issue resolution, and keep the project moving forward efficiently. 1/31/25 - BHA remains satisfied with the backlog prioritization. However, CAMHD, having conducted surveys and user group interview in 2019 and 2020, is concerned that gathering feedback from a broader user base might head to additional.									

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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.	Failure to follow the established defect management process can result in defects being overlooked, inconsistently tracked, or unresolved—leading to increased user frustration neduced trust in the system. This breadown also impairs the project team's shilling to analyze trends, implement noct 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.	IV&V recommends: 1. The project records the history of a defect's severity in the corresponding tistes' description/notes section in ADD. For example, when a hottlik is deployed to mitigate a defect initially classified as "Critical," the description/notes section should document that the defect originally had a "Critical" severity rating.	6/30/25 - IV&V will continue to monitor the adherence to the Help Desk and defect management processes. 5/31/25 - 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.	Project Manageme	nt Issue	Low	Open			9/30/2024	Gautam Gulvady	
				2. Based on Best Practices, updating the defect management documentation and having regular refresher training on the defect management process. 3. 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. 5. Keep stakeholders informed about defect status, priority, impacts, and resolution timelines. This could increase awareness of the importance of logging defects. 6. Discuss ways to improve the defect logging and management process with the 3 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. Intelline III, Bit is reviewing the previously provided Help Desk documentation and considering adopting and enforcing the outlined defect management procedures. 3/31/25 - In March 2025, the SI provided documentation that was originally created in 2019, outlining the Help Desk process. IX&V is continuing its review of the process and unity provide feedback and recommendations based on hest practices in April 2025. Notably, the project has placed increased attention on this area, which is a positive development. As a result of this helphered focus, IX&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. Si previowing the Help Desk process and addressing any paps, IX&V anticipates improvements in the overall defects and the severity of the defect. Bit A personnel may opposite any paps, IX&V anticipates improvements in the overall defects and proving the Help Desk process and addressing any paps, IX&V anticipates improvements in the overall defects are participated by the process and addressing any paps, IX&V anticipates improvements in the overall 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 strengthem the projects's defect management process. Bit Ancountered some challenges that resulted in a delay in addressing the defect. In February, there were producted discussions and defects are handled, particularly by enhancing how these issues are initially logged. 2/28/25 - A high-priority d									
47		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 frustrate end exists, reduce confidence in system reliability, and hinder accountability when incidents occur, ultimately affecting BHA's ability to deliver timely and consistent services.	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 intsprint, 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 cross-	12/31/24 - During this reporting period, users encountered production issues related to the Calculator, including an inability of 26/30/25 - BMA has provided NWA with the updated document describing the Production System Restart Communication Protocol. IVEX will review the document and provide feetback based on industry best practices. \$731/25 - BMA has engaged in productive discussions around enhancing the communication protocol, including potential adjustments to advance notice periods, provider onlicitations, and language perferences, to Improve its Carrity and effectiveness. However, the updated document has not yet been shared with IV&V for review. 4/30/25 - BMA is continuing with the development of a document describing a communication protocol. BMA has provided some key changes, including adjustments to the advance notice period, provider notifications, and psecific language preferences, which would further strengthen the protocol and enhance its effectiveness. BMA shared the draft document with DDD and they 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 protocol by eliminate ambiguity and gromote a shared understanding among stakeholders. The deployment team is communication protocol and enhance its effectiveness. BMA shared the draft document with DDD and the processes, procedures, and communication protocol by eliminate ambiguity and gromote a shared understanding among stakeholders. The deployment team is communication protocol and enhance its effectiveness and protocol and prot	Project Manageme	nt Issue	Medium	Open			9/30/2024	Gautam Gulvady	
52	AER		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.		6/30/25 - BHA submitted a formal request to develop a reporting feature to identify active AER analytics users in production. The project has created a User Request in Ature DevOPs (ADO).	Software Development	Preliminary Concern		Open			5/27/2025	Gautam Gulvady	

ID :	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner	
53	tracking gaps	User activity tracking for viewing records is limite across systems, which may affect transparency ar raise potential compliance concerns.	d The BNA team is currently assessing whether systems such as the Provider Portal, INSPRE, of and MAX effectively capture user activity, particularly related to weinig records. Although some audit data is available, access is limited and other requires navaginal truly additional channels. As such, evaluating the feasibility of improving user activity tracking may be investigated/considered as part of fluture development planning.		6/30/25 - Currently, gaps exist in monitoring record viewing activity, with only creation and editing being tracked. Previous efforts to log viewing were stalled, likely due to storage concerns. The system uses a business unit hierarchy in Dynamics to control access but does not distinguish between accessing and actively reading records. While random audits are performe monthly by CAMHO/DOD, this process is manual and lacks formal policy backing. This approach may present challenges for ensuring HIPAA compliance and tentrifying mutualthrised access to sensitive data. Without a detailed audit trail for viewing activity, suspicious behavior, particularly from users with higher-level permissions, may go unnoticed. BHA intends to confirm the minimum required tast for HIPAA compliance with legal/compliance (e.g., user ID and timestamp) and evaluate the effectiveness of current audits.	Development	Preliminary Concern		Open			5/16/2025	Susmitha Rajan	