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DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES | KA 'OIHANA LOIHELUA LAWELAWE LAULĀ

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

A handwritten signature in blue ink, appearing to read "CS".

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*

*September 1 – September 30, 2025*

*Final Submitted: October 14, 2025*

# Agenda

Executive Summary

IV&V Findings & Recommendations

Appendices

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



# Executive Summary

The project is on track for its release on 10/1/2025, with development activities nearing completion.

Earlier this month, BHA completed a mid-sprint deployment to fix high-severity production defects, including formatting issues in invoice reporting and provider portal diagnosis record download issues. SI stated that Root Cause Analysis (RCA) is carried out for critical and high-priority production defects. The BHA deployment team is now better equipped to anticipate upcoming changes and coordinate release activities.

BHA is pursuing the addition of an IT resource to support both project and operational activities. This added capacity may help reduce the burden on current project team members, enabling them to concentrate more fully on project responsibilities.

Automated testing efforts (using TOSCA) have progressed, with 9 of the planned 25 modules now completed. The first set of automated tests were successfully executed during the recent sprint marking a key milestone in maturing testing practices. The TOSCA SME is now focused on the remaining 16 modules, with the goal of reducing manual testing efforts and enabling BHA testers to focus on higher-priority project activities.

# Executive Summary

Jun	Jul	Aug	Category	IV&V Observations
<span>L</span>	<span>L</span>	<span>L</span>	<b>Sprint Planning</b>	BHA has enhanced sprint backlog planning to better align with evolving priorities and workload. The SI has added a resource and redistributed tasks, enabling team members to take on additional items and driving steady progress. While a few complex items are progressing more slowly than expected due to ongoing dependencies, planning improvements are helping to maintain project stability and focus on resolution.
<span>L</span>	<span>L</span>	<span>L</span>	<b>User Story (US) Validation</b>	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.
<span>M</span>	<span>M</span>	<span>M</span>	<b>Test Practice Validation</b>	Automated testing with TOSCA has progressed, completing 9 of 25 modules. The first automated tests ran successfully in the recent sprint, marking a key milestone. The TOSCA SME is now focused on the remaining 16 modules to reduce manual testing and free BHA testers for higher-priority work.

# Executive Summary

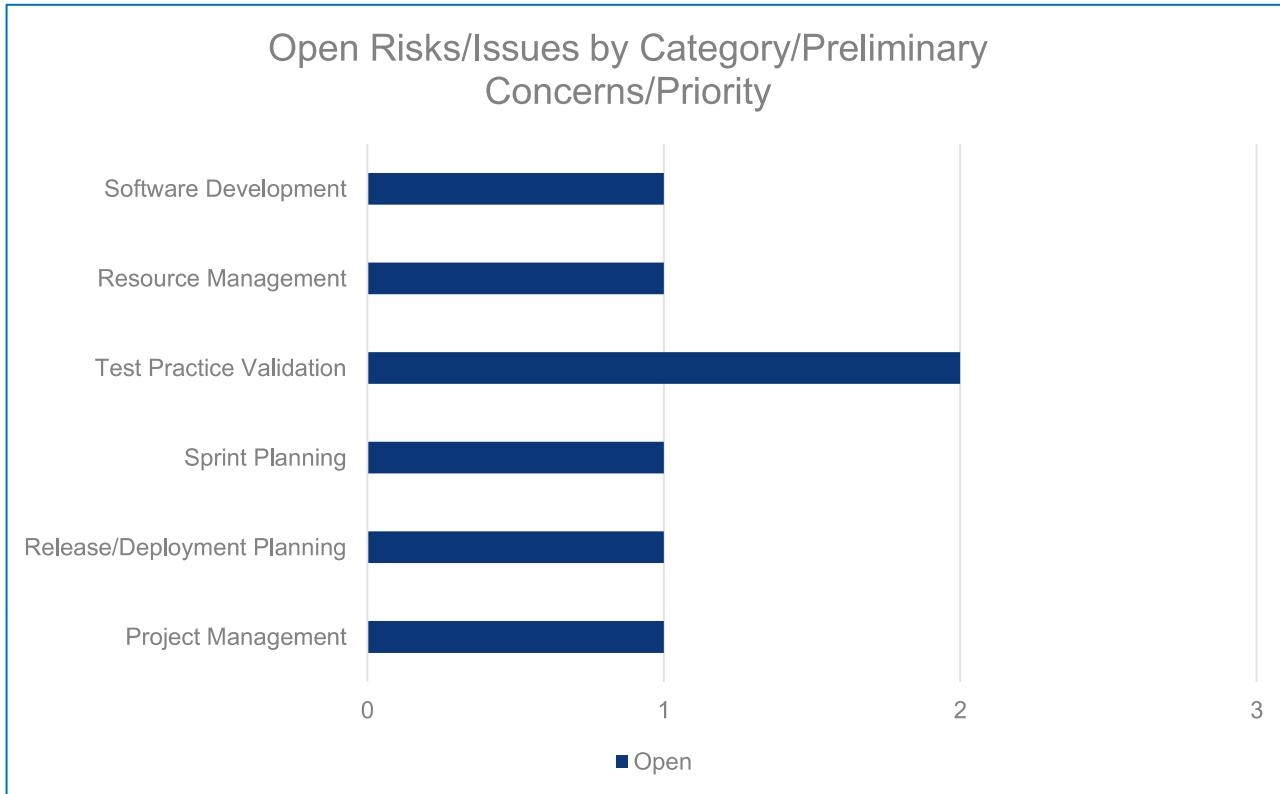
Jun	Jul	Aug	Category	IV&V Observations
(M)	(M)	(M)	<b>Release / Deployment Planning</b>	Communication surrounding releases has improved, resulting in a more streamlined deployment process. SI stated that Root Cause Analysis (RCA) is carried out for critical and high-priority production defects.
(L)	(L)	(L)	<b>On-The-Job-Training (OJT) and Knowledge Transfer (KT) Sessions</b>	This category remains Green (low criticality) for the September reporting period with no active findings.
(L)	(L)	(L)	<b>Targeted KT</b>	This category remains Green (low criticality) for the September reporting period. IV&V will continue to monitor.
(L)	(L)	(L)	<b>Project Performance Metrics</b>	There are no project performance metrics to report for the September reporting period. IV&V will keep this category's criticality rating Green (low criticality) and will continue to monitor.
(L)	(L)	(L)	<b>Organizational Maturity Assessment (OMA)</b>	This category remains Green (low criticality) for the September reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.

# Executive Summary

Jun	Jul	Aug	Category	IV&V Observations
L	L	L	<b>Project Management</b>	<p>The project is on track for its 10/1/2025 release, with development activities nearing completion.</p> <p>The project team consistently logs and tracks defects, with a continued focus on field-reported issues to drive improvements and enhance user satisfaction.</p>
M	M	M	<b>Resource Management</b>	<p>BHA is pursuing the addition of an IT resource to support both project and operational activities. This added capacity may help reduce the burden on current project team members, enabling them to concentrate more fully on project responsibilities.</p>

# Executive Summary

As of the September 2025 reporting period, seven (7) open findings. Three (3) Medium Issues, one(1) Low Risks, Three (3) Low Issues, spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, Project Management, Resource Management, assessment areas are currently open.



# IV&V Findings & Recommendations

# IV&V Findings & Recommendations

## 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

# IV&V Findings & Recommendations

## Sprint Planning (cont'd)

#	Key Findings	Criticality Rating
41	<p><b>Low Risk:</b> The absence of separate dedicated product backlog review meetings can lead to unclear priorities, misalignment with stakeholders, inadequate refinement, and an increased risk of scope creep.</p> <p><b>Update:</b> BHA has been refining sprint backlog planning to better align with evolving priorities and workload. The SI has added a resource and redistributed tasks, enabling team members to take on additional items and driving steady progress. A few involved items remain in motion, particularly regarding eligibility data retrieval and parsing, which are impacted by an ongoing issue with a console application that spans multiple areas. This remains a key dependency and is being addressed in collaboration with external teams. While a few work items are progressing more slowly than anticipated, the planning efforts are helping to maintain stability, and work continues with a focus on resolution.</p>	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



# IV&V Findings & Recommendations

## Test Practice Validation

#	Key Findings	Criticality Rating
2	<p><b>Medium Issue:</b> The lack of comprehensive automated regression testing has likely led to post-production defects, causing user frustration.</p> <p><b>Finding Update:</b> Regression testing for Release 4.14 remains on track for the period of 9/22/25 to 9/30/25, with go-live scheduled for 10/1/25. CAMHD and DDD are currently executing both manual tests and a subset of recently completed automated tests, developed by the Tosca Automation Regression Testing SME. The TOSCA SME continues to make progress on automating DDD test scenarios, with near-target completion anticipated by February 2026.</p>	<span style="color: yellow;">M</span>

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.	In-Progress

# IV&V Findings & Recommendations

## 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
IV&V recommends DDD and CAMHD to develop a common and consistent approach across divisions for performing regression testing.	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

# IV&V Findings & Recommendations

## Test Practice Validation (cont'd)

#	Key Findings	Criticality Rating
40	<p><b>Medium Issue:</b> Limited testing processes can lead to poor-quality software, project delays, and extended user acceptance testing.</p> <p><b>Finding Update:</b> Alongside the ongoing automated regression test development for DDD, IV&amp;V recommends that BHA assess high-risk areas where enhanced test coverage would add value. IV&amp;V will continue to monitor areas where added test coverage may benefit. At this stage, the project awaits further advancement.</p>	

Recommendations	Status
<p>IV&amp;V recommends enhancing testing scripts to better align with high-risk and business-critical workflows. This may 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 issues.</p> <p>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.</p>	In Progress

# IV&V Findings & Recommendations

## 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.	In Progress
IV&V recommends that, after fixing a defect, the SI incorporate relevant test cases to validate these fixes in subsequent releases.	In Progress
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

# IV&V Findings & Recommendations

## Release / Deployment Planning (cont'd)

#	Key Findings	Criticality Rating
39	<p><b>Low Issue:</b> 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.</p> <p><b>Finding Update:</b> Communication of release notes to the deployment team continues to improve for enhanced readiness and preparation for deployments. The SI indicated that Root Cause Analysis (RCA) is performed on critical and high-priority production defects. IV&amp;V will continue to monitor release results and track the project's progress in improving its deployment process.</p>	<span>L</span>
Recommendations		Status
IV&V recommends that the project consider targeted efforts to reduce recurring defects, which may include expanding the scope of Root Cause Analysis (RCA) where appropriate.		Open
<p>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.</p> <p>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.</p>		In Progress

# IV&V Findings & Recommendations

## 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.	In Progress
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.	Open
As appropriate, consult with the SI on best practices that BHA could employ to support deployment.	In Progress
Request the assistance of the SI's 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.	In Progress
Request assistance from the SI's Solution Architect in reviewing deployment scripts to double-check for accuracy and completeness before commencing deployment activities.	In Progress

# IV&V Findings & Recommendations

## Release / Deployment Planning (cont'd)

Recommendations	Status
The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.	In Progress
IV&V recommends performing a Root Cause Analysis (RCA) in collaboration with SI for the continued concerns surrounding environment differences.	In Progress
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.	In Progress
Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed.	In Progress
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.	In Progress
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.	In Progress

# IV&V Findings & Recommendations

## Project Management (cont'd)

#	Key Findings	Criticality Rating
46	<p><b>Low Issue:</b> Lack of oversight of the established defect management process could lead to lost/forgotten defects and user frustration and could slow the resolution of similar defects in the future.</p> <p><b>Finding Update:</b> IV&amp;V continues to observe the project team consistently logging and actively tracking defects and reported issues as part of the Help Desk and defect management processes. IV&amp;V encourages the team to continue focusing on field-reported issues, such as those involving the Provider portal, to strengthen continuous improvement initiatives and end-user satisfaction.</p>	L
Recommendations		Status
The project records the history of a defect's severity in the corresponding ticket's description/notes section in ADO. For example, when a hotfix is deployed to mitigate a defect initially classified as "Critical," the description/notes section should document that the defect originally had a "Critical" severity rating.		Open
Based on Best Practices, updating the defect management documentation and having regular refresher training on the defect management process.		In Progress
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.		In Progress
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.		In Progress

# IV&V Findings & Recommendations

## Project Management (cont'd)

Recommendations	Status
Discuss ways to improve the defect logging and management process with the SI and come up with a plan to improve.	In Progress

# IV&V Findings & Recommendations

## Resource Management

#	Key Findings	Criticality Rating
34	<p><b>Medium Issue:</b> A shortage of BHA project resources could lead to reduced productivity and project delays.</p> <p><b>Finding Update:</b> BHA is proactively pursuing the addition of a new IT position to help strengthen capacity and support ongoing efforts. At the same time, they are managing a number of competing priorities, which is placing some strain on available resources. In the meantime, the team is managing multiple critical initiatives, including year-end rate change planning, and conducting UAT for document management. With these activities converging, maintaining a balanced workload and clear planning will help support the upcoming 4.15 release and other near-term goals.</p>	<span style="color: yellow;">M</span>

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
BHA implement a structured knowledge transfer process when key personnel retire, including cross-training and documenting critical knowledge in the Dynamics Help Desk system. Regular updates to the knowledge base will maintain its accuracy, preserve essential information, and support smooth operational continuity.	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.	In Progress

# IV&V Findings & Recommendations

## Resource Management (cont'd)

Recommendations	Status
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
BHA should work quickly to create new positions and receive State approval.	In Progress
BHA should identify tasks and duties that they can ask the SI to assume, as permitted by the contract, which are presently being handled by BHA members.	In Progress
BHA should explore the use of contractors to fulfill the functions for open project positions.	In Progress

# IV&V Findings & Recommendations

## Software Development

#	Key Findings	Criticality Rating
14	<p><b>Medium Issue:</b> Due to multiple quality concerns, the project may continue to face impactful system defects.</p> <p><b>Finding Update:</b> Release 4.14 is planned for 10/1/25. Since the last reporting period, the project team has been actively addressing one (1) Critical and one (1) High-severity production defect. Earlier this month, the team deployed two High-severity production defects in a mid-sprint deployment (MSD) on 9/9/25. IV&amp;V continues to monitor code quality, MSDs, and upcoming production releases, with particular attention to new production defects.</p>	<span style="color: yellow;">M</span>

Recommendations	Status
Close collaboration between divisions to review reported defects, ensuring a shared understanding and alignment, particularly regarding the severity and priority of production defects.	Open
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.	In Progress
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

# IV&V Findings & Recommendations

## Project Management (cont'd)

Recommendations	Status
Perform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.	In Progress
The project monitor implemented improvements for effectiveness.	In Progress
Performing an RCA in collaboration with the SI after all future release deployments for continual quality improvements.	In Progress
BHA and the SI collaborate on the necessary revisions to the submitted design deliverables to increase level of detail and quality.	In Progress

# IV&V Findings & Recommendations

## Software Development

#	Key Findings	Criticality Rating
52	<p><b>Preliminary Concern:</b> BHA does not currently have a streamlined report to identify active AER analytics users in production.</p> <p><b>Finding Update:</b> The project team has finalized requirements related to this user request. The plan is to commence with the design.</p>	Closed

# IV&V Findings & Recommendations

## Project Performance Metrics

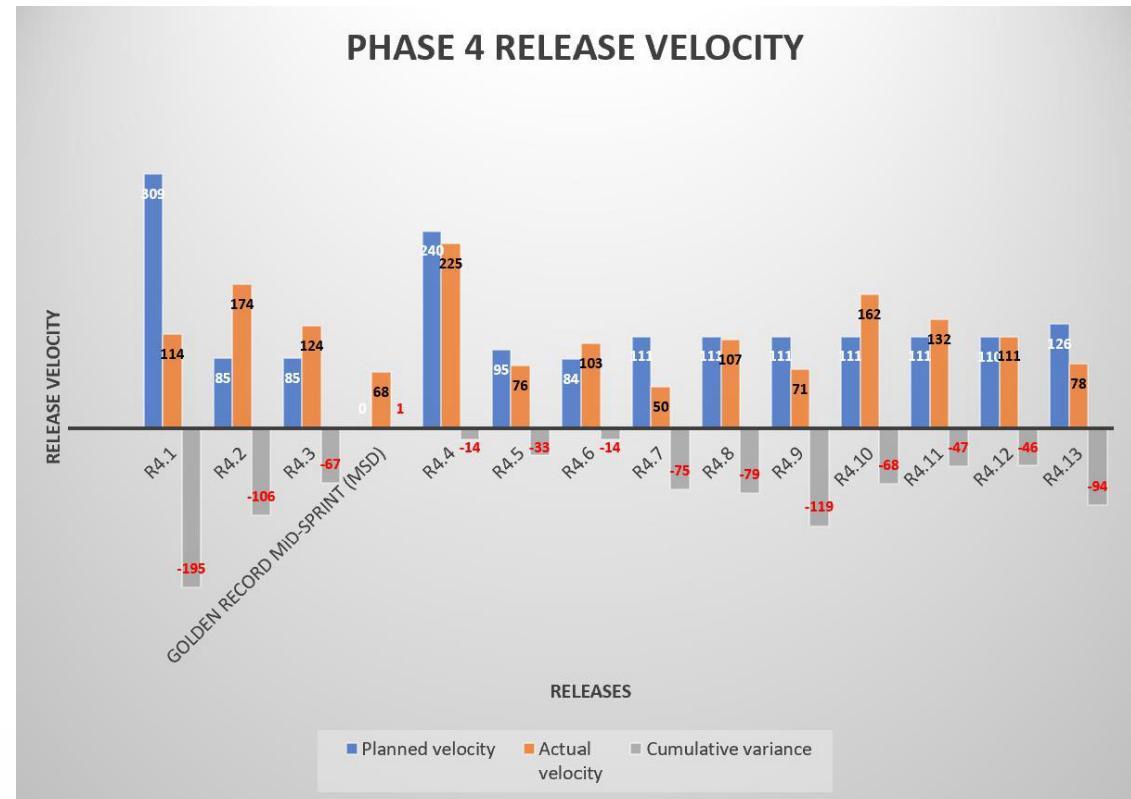
Metric	Description	IV&V Observations	IV&V Updates			
Velocity	<ul style="list-style-type: none"><li>Review and validate the velocity data as reported by the project</li><li>Verify the project is on pace to hit the total target number of US/USP</li></ul>	<p><b>September:</b> A Mid-Sprint Deployment was completed on 9/9/25. R4.14 is planned for production deployment on 10/1/2025.</p>	Velocity Metric Trends:			

# 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
R4.13	126	78	-94



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.

# IV&V Findings & Recommendations

## Project Performance Metrics (cont'd.)

Metric	Description	IV&V Observations	IV&V Updates
Defect Metrics	<p>Understand and track the following:</p> <ul style="list-style-type: none"><li>Defects by category (bug fixes)</li><li>USPs assigned to defects in a release vs. USPs assigned to planned US in a release</li></ul>	<p><b>September</b> – A Mid-Sprint Deployment was completed on 9/9/25. R4.14 is planned for production deployment on 10/1/2025.</p>	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 A

## IV&V Rating Scales

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

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

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

**G** 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.

**Y** 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.

**R** 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
H	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

# Appendix B

## Inputs

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

### Meetings attended during the September 2025 reporting period:

1. Daily Scrum Meetings
2. Daily Design Meetings
3. 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
9. DOH BHA IT Solution Project – Steering Committee
10. Incident Management Discovery
11. Discovery Management Solution Discovery Sessions

### Artifacts reviewed during the September 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
5. Conducted IV&V Interviews.

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



Document



## Appendix C: Project Trends

# Appendix C

## Project Trends

	December	January	February	March	April	May	June	July	August	September
User Story Validation										
Test Practice Validation										
Sprint Planning										
Release / Deployment Planning										
OJT and KT Sessions										
Targeted KT										
Project Performance Metrics										
Organizational Maturity Metrics										
General Project Management										
Resource Management										
Total Open Findings	14	14	11	10	9	10	10	10	8	7
Issue - high	0	0	0	0	0	0	0	0	0	0
Issue - medium	10	10	7	9	7	7	7	7	4	3
Issue - low	1	1	3	0	0	0	0	0	2	3
Risk - high	0	0	0	0	0	0	0	0	0	0
Risk - medium	2	2	1	1	1	0	0	0	0	0
Risk - low	0	0	0	0	1	1	1	1	1	1
Preliminary Concern	2	2	0	0	0	1	2	2	1	0

# Appendix D

## Acronyms and Definitions

Acronyms	Definition
DOH	Department of Health
BHA	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	Division	Title	State	Priority	Severity	Found In	Created Date	RCA Categories
40862	Bug	Both	Both - Console Apps Have Cookie Errors	Ready To Test	1	1 - Critical	PROD	8/20/2025 14:16	Microsoft Issues
40766	Bug	CAMHD	CAMHD - Provider Invoices picking up wrong progress notes (Audio Only)	Completed in QA_Test	1	2 - High	PROD	8/6/2025 5:20	Coding Errors
37791	Bug	DDD	DDD - CIT Referral: Create Document Location Flow Failures	Completed in QA_Test	2	3 - Medium	PROD	2/10/2025 11:30	Design Errors
37793	Bug	DDD	DDD - ISP Report Generation Issues	New	2	3 - Medium	PROD	2/10/2025 12:06	
33841	Bug	DDD	DDD - Calculator 3.0 - Users able to schedule service past ISP end date again	Approved	3	3 - Medium	PROD	5/17/2023 11:22	
34110	Bug	DDD	Bug - Individual Budget unlinking from Service Authorizations	New	2	3 - Medium	PROD	7/27/2023 18:40	
30634	Bug	CAMHD	CAMHD Bug - Credentialing documents not copied into PROD during Data Migration	Completed in QA_Test	3	3 - Medium	PROD	2/16/2021 17:45	
30726	Bug	DDD	Portal signature fields do not accept touchscreen input	Evaluated_On Hold	2	3 - Medium	PROD	9/17/2021 12:07	
33550	Bug	CAMHD	Bug: "Progress Notes Associated to Invoices" page not loading	New	3	3 - Medium	PROD	3/31/2023 20:11	
34242	Bug	DDD	Bug - Case Merge - Contact Notes not merging; Permissions error	New	3	3 - Medium	PROD	8/17/2023 11:44	
40891	Bug	DDD	DDD - Power Automate flow bug - Community Living: Create Document Location	New	2	3 - Medium	PROD	8/25/2025 10:53	
34238	Bug	CAMHD	CAMHD - Assessment Entity Initial Save Time - IMHE	Evaluated_On Hold	2	3 - Medium	Prod	8/17/2023 5:33	
35317	Bug	DDD	DDD - Plan Services with no Provider Plan	Active	2	3 - Medium	PROD	6/24/2024 12:06	
35450	Bug	DDD	DDD - Calculator not printing correctly	Approved	2	3 - Medium	PROD	7/26/2024 11:36	
36383	Bug	DDD	DDD - Calculator problem with paid base and add on	New	2	3 - Medium	PROD	9/26/2024 12:19	
37733	Bug	DDD	DDD - Incorrect Columns displaying on Provider Plan subgrid (Action Plan tab of ISP)	Evaluated_On Hold	1	3 - Medium	PROD	2/5/2025 7:37	
40776	Bug	DDD	DDD - Calculator Objective unchecking problem	New	2	3 - Medium	PROD	8/6/2025 12:46	
40855	Bug	DDD	DDD - Calculator one-time mid-year change ISP report discrepancy	New	2	3 - Medium	PROD	8/20/2025 7:49	



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**Solutions that Matter**

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Type	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner
2	Regression 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 functionality. DDD has informed IV&V that there are other examples of functionality being deprecated after a release, some of which are still being investigated. As of this report, IV&V has not evaluated the project's root cause analysis (RCA) process used to determine why such functionality was deprecated but will discuss further with BHA in January 2020.	1. 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 team can ensure that regression testing is thorough without overutilizing 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.	9/30/25 - Regression testing for Release 4.14 remains on track for the period of 9/27/25 to 9/30/25, with go-live scheduled for 10/1/25. CAMHD and DDD are currently executing both manual tests and a subset of recently completed automated tests, developed by the Tosca Automation Regression Testing SME. The Tosca SME continues to make progress on automating DDD test scenarios, with near-target completion anticipated by February 2026.	Test Practice Validation	Issue	Medium	Open			12/31/2019	Gautam Gulvady
			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.	2. A balanced approach that combines manual and automated regression testing to ensure broad test coverage and flexibility.	7/31/25 - Release 4.13 Regression testing is on track for 7/21/2025 – 7/29/2025, powered by manual test cases while the Tosca license is renewed. Release 4.13 Regression testing was successfully completed on 7/29/2025. The current reliance on manual processes may limit testing efficiency and increase the likelihood of gaps in test coverage, which could lead to some defects being introduced into production. The Tosca Automation Regression Testing SME is ready to resume automated test scenario development as soon as licensing is restored. At IV&V's request, the SI has also begun detailed end-to-end flow recordings to validate DDD key processes, with completion by month-end.								
				3. Having a board 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.	6/30/25 - 6/30/25 - 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.								
				4. IV&V recommends reevaluating the schedule priorities by distributing the work according to the resource bandwidth. This will ensure that the schedule is not impacted and that the work is done efficiently between regression testing and Golden Record (GR).	5/31/25 - 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 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.								
				5. Pursue and complete additional formal training in Azure DevOps and Tricentis for test automation as soon and complete efforts to automate the two primary regression test scripts.	4/30/25 - 4/30/25 - Regression testing was successfully executed from 3/25/2025 to 4/2/2025. CAMHD executed both manual and automated tests, while DDD carried out manual regression testing.								
				6. IV&V recommends DDD and CAMHD to develop a common and consistent approach across divisions for performing regression testing.	In April 2025, the project onboarded a Tosca Automated Regression Testing SME. The overall approach for automated regression testing will be finalized by the end of April 2025, with execution continuing through May 2025.								
				7. 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.	The INSPIRE project will have an updated suite of automated test scripts, along with knowledge transfer and training for the identified DDD staff.								
					3/31/25 - The SI has updated the AER regression test scripts. Regression testing for R4.11 began on 3/25/25 and is 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 Phase 4 releases – R4.12 and beyond—the project will be onboarded a Tosca Automated Regression Testing Subject Matter Expert (SME).								
14	Code quality	Due to multiple quality concerns, the project may continue to face impactful system defects.	System defects identified in August that affected claims were due to multiple quality issues were individually addressed during this reporting period. IV&V notes that there is one remaining defect still being evaluated that affects a limited number of claims. Overall, the Project Team has responded with a commitment to increase project quality and is in the process of identifying improvements to associated testing processes. These currently include: Performing Revenue Neutrality Testing to ensure expected revenue streams are largely unchanged from one period to the next. Conducting System Integration Testing (SIT) to ensure the system is functioning as intended and reliable. 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, continue for Agile Release 3.11 forward. Finally, IV&V provided feedback and provided feedback on the Help Desk and Semantic Layer design documents per request and found that both documents lacked design details.	IV&V recommends:	9/30/25 - Release 4.14 is planned for 10/1/25. Since the last reporting period, the project team has been actively addressing one (1) Critical and one (1) High-severity production defect. Earlier this month, the team deployed two High-severity production defects in a mid-sprint deployment (MSD) on 9/9/25. IV&V continues to monitor code quality, MSDs, and upcoming production releases, with particular attention to new production defects.	Software Development	Issue	Medium	Open			9/30/2020	Gautam Gulvady
			The identified quality issues have negatively affected DOH billing processes and DOH has stated these are the most impactful defects discovered to date.	1. Closer collaboration between divisions to review reported defects, ensuring a shared understanding and alignment, particularly regarding the severity and priority of production defects.	8/31/25 - As of this reporting period, one (1) critical and three (3) high-severity production defects remain unresolved and are actively being addressed by the project team. While progress continues on higher-priority defect remediation (see Appendix E), resolution of lower-severity issues remains deferred due to ongoing resource focus. IV&V continues to monitor code quality closely, with particular attention on the resolution of remaining R4.13 defects, upcoming release readiness, and any Mid-Sprint Deployments (MSDs).								
				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 secure and can be easily maintained.	7/31/25 - At the close of this reporting period, one (1) high-severity production defect remains open and is actively being remediated by the project team. Fixes for two high-severity defects were deployed in R4.13. While remediation efforts for existing production defects continue (see Appendix E), resolution of lower-priority issues has been delayed as IV&V focuses on higher-priority tasks. The R4.13 went live on 7/30/25. IV&V will continue to monitor key areas, including R4.12 defect resolution, future releases and any Mid-Sprint Deployments (MSDs).								
				3. The project increases comprehensive testing prior to joint testing to reduce the burden on BHA testers and reduce post-production defects.	6/30/25 - Since the R4.12 deployment to production on 5/29/25, users have reported five (5) production defects (two (2) high severity and three (3) medium severity) which the project team is actively monitoring. While remediation of existing production defects (see Appendix E) is ongoing, resolution of lower-priority issues has been delayed due to higher priority tasks. IV&V will continue to monitor key areas, including R4.12 defect resolution, FHIR implementation, any Mid-Sprint Deployments (MSDs), and progress on the AER solution.								
				4. The SI vendor add a "Found in" column to the daily scrum file to indicate the environment where each defect was identified.	7/31/25 - The project team has deployed R4.12 to production on 7/29/25, users have reported three (3) production defects (two (2) high severity and three (3) medium severity) which the project team is actively monitoring. While remediation of existing production defects (see Appendix E) is ongoing, resolution of lower-priority issues has been delayed due to higher priority tasks. IV&V will continue to monitor key areas, including R4.12 defect resolution, FHIR implementation, any Mid-Sprint Deployments (MSDs), and progress on the AER solution.								
				5. The SI vendor provides the total number of defects in production and reports these numbers regularly to BHA.	6/30/25 - The project team has deployed R4.12 to production on 7/29/25, users have reported three (3) production defects (two (2) high severity and three (3) medium severity) which the project team is actively monitoring. While remediation of existing production defects (see Appendix E) is ongoing, resolution of lower-priority issues has been delayed due to higher priority tasks. IV&V will continue to monitor key areas, including R4.12 defect resolution, FHIR implementation, any Mid-Sprint Deployments (MSDs), and progress on the AER solution.								
				6. The project evaluate existing project staff skills and experience level to ensure they meet BHA support requirements.	7/31/25 - The project team has deployed R4.12 to production on 7/29/25, users have reported three (3) production defects (two (2) high severity and three (3) medium severity) which the project team is actively monitoring. While remediation of existing production defects (see Appendix E) is ongoing, resolution of lower-priority issues has been delayed due to higher priority tasks. IV&V will continue to monitor key areas, including R4.12 defect resolution, FHIR implementation, any Mid-Sprint Deployments (MSDs), and progress on the AER solution.								
				7. The project perform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.	6/30/25 - The project team has deployed R4.12 to production on 7/29/25, users have reported three (3) production defects (two (2) high severity and three (3) medium severity) which the project team is actively monitoring. While remediation of existing production defects (see Appendix E) is ongoing, resolution of lower-priority issues has been delayed due to higher priority tasks. IV&V will continue to monitor key areas, including R4.12 defect resolution, FHIR implementation, any Mid-Sprint Deployments (MSDs), and progress on the AER solution.								
				8. The project assign dedicated resources to provide oversight of CAMHD Fiscal Processes.	7/31/25 - The project team has deployed R4.12 to production on 7/29/25, users have reported three (3) production defects (two (2) high severity and three (3) medium severity) which the project team is actively monitoring. While remediation of existing production defects (see Appendix E) is ongoing, resolution of lower-priority issues has been delayed due to higher priority tasks. IV&V will continue to monitor key areas, including R4.12 defect resolution, FHIR implementation, any Mid-Sprint Deployments (MSDs), and progress on the AER solution.								
				9. The project monitor implemented improvements for effectiveness.	6/30/25 - The project team has deployed R4.12 to production on 7/29/25, users have reported three (3) production defects (two (2) high severity and three (3) medium severity) which the project team is actively monitoring. While remediation of existing production defects (see Appendix E) is ongoing, resolution of lower-priority issues has been delayed due to higher priority tasks. IV&V will continue to monitor key areas, including R4.12 defect resolution, FHIR implementation, any Mid-Sprint Deployments (MSDs), and progress on the AER solution.								
				10. Performing an RCA in collaboration with the SI after all future release deployments for continual quality improvement.	7/31/25 - The project team has deployed R4.12 to production on 7/29/25, users have reported three (3) production defects (two (2) high severity and three (3) medium severity) which the project team is actively monitoring. While remediation of existing production defects (see Appendix E) is ongoing, resolution of lower-priority issues has been delayed due to higher priority tasks. IV&V will continue to monitor key areas, including R4.12 defect resolution, FHIR implementation, any Mid-Sprint Deployments (MSDs), and progress on the AER solution.								
				11. BHA and the SI collaborate on the necessary revisions to the submitted design.	4/30/25 - R4.11 was successfully deployed on 4/3/2025, with Smoke Testing successfully completed on 4/4/25. A Mid-Sprint Deployment (MSD) was also performed on 4/18/25, which included four (4) User Stories.								
					One of the two previously reported high-severity defects was resolved and deployed with R4.11. The second issue appeared to be related to a Microsoft service error and was resolved on 4/18/25, when Microsoft performed a rollback. Additional unresolved production defects have been identified following the R4.11 deployment, and the project team is currently working to determine the number of new defects. The project team continues to address other outstanding production defects (see Appendix E for details). BHA is currently prioritizing higher-severity tasks, which have delayed the resolution of lower-priority issues; however, remediation efforts remain ongoing. IV&V will closely monitor R4.11, FHIR implementation, any Mid-Sprint Deployments (MSDs), and the AER solution.								
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					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 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.								
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					6/30/25 - 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								

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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, <a href="https://dev.auris.com/DOHBHA/DOHN20BHA/20BSPRE/_workitems/edit/34886">https://dev.auris.com/DOHBHA/DOHN20BHA/20BSPRE/_workitems/edit/34886</a> ), what is in development and deployed is vastly different from what was deployed to production.	1. IV&V recommends that the project consider targeted efforts to reduce recurring defects, which may include expanding the scope of Root Cause Analysis (RCA) where appropriate.	9/30/25 - Communication of release notes to the deployment team continues to improve for enhanced readiness and preparation for deployments. The SI indicated that Root Cause Analysis (RCA) is performed on critical and high-priority production defects. IV&V will continue to monitor release results and track the project's progress in improving its deployment process.	Release/Deployment Planning	Issue	Low	Open			1/25/2024 - The R	Gautam Gulvady
		The root cause for these errors is currently being investigated.	Repeatable documented release and deployment and resources experienced with deployments will help ensure that mistakes are minimized and functionality is not inadvertently deprecated when deployments take place.	2. IV&V recommends the BHA and the SI work together to determine which production defects, including those of higher severity, warrant Root Cause Analysis (RCA), where outcomes may provide valuable insights. Consideration may also be given to defects found in non-production environments, such as recurring defects found during testing.	9/31/25 - Following the R4.13 deployment, one (1) critical and three (3) high-severity production defects remain unresolved. The project team has completed root cause analysis (RCA) for these four (4) defects, and none are related to the deployment. IV&V recommends the team continue performing RCAs to determine root causes. IV&V will continue to monitor release outcomes and the project's progress toward a mature, systemic approach to defect management and deployment.								
				3. The project team is recommended to develop a formal Root Cause Analysis (RCA) process to define the steps required for performing an RCA, such as one or two days of investigation, to determine the root cause of a defect. The RCA process 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 R4.12, and AER.	7/31/25 - The R4.13 went live on 7/30/25. As of this reporting period, one (1) high-severity production defect remains unresolved. Although this finding is focused on deployment, it is considered a defect of higher severity due to its impact on the system's ability to meet its intended purpose, functionality, and business requirements. It is currently being tracked across the project. The project team has acknowledged this deficiency and is prioritizing RCA processes for certain calculator defects. The presence of multiple high-severity defects highlights the importance of proactively implementing a formal RCA framework to prevent recurrence, ensure consistent remediation, and reduce long-term risk exposure. IV&V will continue to monitor deployment quality across releases and Mid-Sprint Deployments (MSDs), with particular attention to emerging defect trends and the project's responsiveness to systemic issues.								
				4. 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 MMs can track these actions to ensure follow-through.	6/30/25 - A Mid-Sprint Deployment (MSD) was successfully deployed on 6/29/25. IV&V has not yet received documentation of a formal Root Cause Analysis (RCA) process, including for the deployment-related issues. The project team has acknowledged the importance of RCA. While this finding highlights deployment, the absence of a defined RCA protocol 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 at a later date once higher priority functionality has been implemented. Establishing this framework could help ensure consistent application, support effective remediation, recurring issues, and reduce long-term risk. IV&V will continue to monitor deployment quality across R4.12, FHIR, MSDs, and the AER solution for any emerging defect trends.								
				5. 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.	5/31/25 - R4.13 was successfully deployed to production on 5/29/25. However, there was a misunderstanding about whether one of the items on the report that 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, format 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.								
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 of 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 approval from state staff. When testing user stories 34564 and 34756 on 1/31/24, the task 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.	1. IV&V recommends enhancing the testing efforts across testing general 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 testing coverage could be improved. This may 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 issues.	9/30/25 - Alongside the ongoing automated regression test development for DDD, IV&V recommends that BHA assess high-risk areas where enhanced test coverage would add value. IV&V will continue to monitor areas where added test coverage may benefit. At this stage, the project awaits further advancement.	Test Practice Validation	Issue	Low	Open			1/31/2024	Gautam Gulvady
				As part of this effort, it may be helpful to review recent production defects to identify areas where coverage could be improved. Expanding scope 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.	6/31/25 - In addition to the ongoing automated regression test development for DDD and the annual performance testing, IV&V recommends that BHA identify high-risk areas where enhanced test coverage would be beneficial. A phased approach is recommended to gradually expand new and/or existing testing processes while working within resource constraints.								
				3. Make efforts to implement a streamlined Root Cause Analysis (RCA) process to identify the causes of defects and prevent recurrence. To propose 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 MMs can oversee the tracking of corrective actions to ensure completion.	7/31/25 - While no specific testing for R4.13 was successfully completed (7/21/25) – 7/29/2025, the team continues to focus on manual testing, especially during Tosca license renewal, to overcome broader limitations in test coverage and execution efficiency. Current practices may not fully exercise high-risk workflows or capture edge-case conditions, increasing the potential for undetected defects to reach production. IV&V encourages BHA to enhance its overall testing strategy to improve both the breadth and depth of test coverage, with a focus on critical business scenarios and high-impact functional paths.								
				3. IV&V recommends that, after fixing a defect, the SI incorporate relevant test cases to validate these fixes in subsequent releases.	6/30/25 - Since the R4.12 deployment on 6/29/2025, 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 user stories. The Tosca Automated Regression Testing (ART) 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.								
				4. IV&V recommends discussions on various aspects of the INSPIRE testing process with a focus on process such as tracking test coverage and requirements traceability, considering new development of Access Rules, Document	5/31/25 - R4.12 was deployed to production on 5/29/2025, followed by successful manual testing on 5/30/2025. However, users subsequently reported three production defects that were expected to have been identified during those testing. R4.12 regression testing was conducted from 5/30/2025 to 6/10/2025 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 of any Mid-Sprint Deployments (MSDs), and the AER solution for quality issues.								
				4. IV&V was successfully deployed on 4/27/25, with Smoke Testing successfully completed on 4/27/25. A Mid-Sprint Deployment (MSD) was also performed on 4/28/25, which included four (4) user stories. Additional unreserved production defects have been identified following the R4.12 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	4/30/25 - R4.11 was successfully deployed on 4/27/25, with Smoke Testing successfully completed on 4/27/25. A Mid-Sprint Deployment (MSD) was also performed on 4/28/25, which included four (4) user stories. Additional unreserved production defects have been identified following the R4.12 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								
41	Backlog meetings	The absence of separate dedicated product backlog review meetings can lead to unclear priorities, misalignment with stakeholders, inadequate refinement, and increased risk of scope creep.	Currently, product backlog reviews are done during design 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.	1. BHA continue to conduct these meetings regularly and mature the project over time, as they provide tangible value in sustaining project velocity and reducing rework.	9/30/25 - BHA has been refining backlog planning to better align with evolving priorities and workload. The SI has added a resource and identified tasks, enabling team members to focus on additional items and driving steady progress. A few involved items remain in motion, particularly regarding eligibility data retrieval and parsing, which are impacted by an ongoing issue with a console application that spans multiple areas. This remains a key dependency and is being addressed in collaboration with external teams. While a few work items are progressing more slowly than anticipated, the planning efforts are helping to maintain stability, and work continues with a focus on resolution.	Sprint Planning	Risk	Low	Open			1/26/2024	Gautam Gulvady
			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.	2. 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.	6/31/25 - BHA has initiated a redistribution of development responsibilities across the team to reduce workload concentration and maintain project momentum. The team has addressed the bottleneck, and access provisioning for additional members is in progress to support this transition. Some development activities may be experiencing delays, potentially related to known issues that are actively being addressed through existing support channels.								
			The product backlog review is a summary of what typically happens during a product backlog review:	3. 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 which items mid-sprint would have to be taken.	7/31/25 - BHA has identified a bottleneck in backlog processing, primarily due to a single team member managing the review, estimation, and assignment of tasks. While backlog items are prioritized, some from the current release cycle have been carried over, indicating a need for additional support in this area. The BHA team is actively working to streamline the process by identifying synergies across backlog items and refining the distribution of responsibilities to enhance efficiency and throughput.								
			1. Inspecting Backlog Items: The team reviews the items on the product backlog. This involves discussing each item, understanding its priority, value, and acceptance criteria.	4. 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).	6/30/25 - 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 improvement in planning and coordination to optimize the use of available resources.								
			2. Ensuring Clarity: The team ensures that each backlog item is clear and well-understood. Any ambiguities or uncertainties are clarified at this stage.	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.	5/31/25 - 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 calibrating to roles and processes. IV&V plans to attend future backlog prioritization meetings to support this effort.								
			3. Estimation: Estimation of backlog items may occur during the review. The team may use story points or relative sizing to estimate the items required for each item.	6. Refinement: Refinement may also occur during the review. This involves breaking down large items into smaller, more manageable ones, or adding more detail to items as needed.	4/30/25 - IV&V was invited to attend the DDD Backlog Prioritization Meeting. Several key items were discussed, including:								
			7. Collaboration: The review is a collaborative effort involving the entire Scrum team. It's an opportunity for open discussion and sharing of ideas to ensure everyone is aligned on the goals and priorities.	1. Apple Health - Calculator - Provider and Customer Portal Documents	Apple Health - Calculator - Provider and Customer Portal Documents								

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Type	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner			
46	Defect management.	Neglecting the established defect management process could lead to lost/forgotten defects, user frustration, and could slow resolution of similar defects in the future.	Failure to follow the established defect management process can result in defects being overlooked, inconsistently tracked, or unresolved—leading to increased user frustration 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.	<p>IV&amp;V recommends:</p> <ol style="list-style-type: none"> <li>1. The project records the history of a defect's severity in the corresponding ticket's description/notes section in ADO. For example, when a hotfix is deployed to mitigate a defect initially classified as "Critical," the description/notes section should document that the defect originally had a "Critical" severity rating.</li> <li>2. Based on Best Practices, updating the defect management documentation and having regular refresher training on the defect management process.</li> <li>3. Send communications to the project stakeholders to clarify the defect management process and the importance of logging all defects.</li> <li>4. Take steps to assure current and new users understand how to report and/or log defects.</li> <li>5. Consider designating a defect management lead or champion to oversee adherence to the process and assure all defects are logged.</li> <li>6. Keep stakeholders informed about defect status, priority, impacts, and resolution timelines. This could increase awareness of the importance of logging defects.</li> <li>6. Discuss ways to improve the defect logging and management process with the SI and come up with a plan to improve.</li> </ol>	<p>9/30/25 - IV&amp;V continues to observe the project team consistently logging and actively tracking defects and reported issues as part of the Help Desk and defect management processes. IV&amp;V encourages the team to continue focusing on field-reported issues, such as those involving the Provider portal, to strengthen continuous improvement initiatives and end-user satisfaction.</p> <p>8/31/25 - IV&amp;V has continued progress in adhering to established Help Desk and defect management processes, as demonstrated by the logging and active tracking of high- and critical-severity defects. This indicates the project team is effectively capturing and managing issues through formal channels. IV&amp;V encourages continued attention to field-reported issues, such as those involving the Provider portal, to further support continuous improvement and enhance end-user satisfaction.</p> <p>7/31/25 - IV&amp;V will continue to assess the project's adherence to Help Desk and defect management processes. IV&amp;V encourages the project team to proactively capture and address feedback from the field such as issues reported with the Provider portals to support continuous improvement and end-user satisfaction.</p> <p>6/30/25 - IV&amp;V will continue to monitor the adherence to the Help Desk and defect management processes.</p> <p>5/31/25 - IV&amp;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&amp;V will provide feedback and recommendations to support alignment with industry best practices.</p> <p>4/30/25 - IV&amp;V has reviewed the documentation outlining the Help Desk process. IV&amp;V continues to observe increased project focus on both the Help Desk and defect management processes, and will monitor adherence to these processes while providing feedback and recommendations based on best practices. Meanwhile, BHA is reviewing the previously provided Help Desk documentation and considering adopting and enforcing the outlined defect management procedures.</p> <p>3/31/25 - In March 2025, the SI provided documentation that was originally created in 2019, outlining the Help Desk process. IV&amp;V is continuing its review of the process, providing feedback and recommendations based on the practices in 2022. Notable improvements include increased adoption on the field, which is a positive development. As a result of this heightened focus, IV&amp;V has observed a corresponding rise in the number of defects being logged in Azure DevOps (ADO), indicating stronger adherence to reporting protocols and greater transparency in issue tracking. Productive discussions are underway to address critical defects. By reviewing the Help Desk process and addressing any gaps, IV&amp;V anticipates improvements in the overall defect management approach. BHA usually receives issues by email or helpdesk calls, with most reports submitted by email. Depending on the severity of the defect, BHA personnel may consult with other team members and flag high-severity defects, reporting them to the SI. While the current process is generally effective, there is room to speed up how critical defects are handled, particularly by enhancing how these issues are initially logged.</p>	Project Management	Issue	Low	Open					9/30/2024	Gautam Gulvady	