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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,

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
October 1 – October 31, 2025*

Final Submitted: November 11, 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 remains on schedule, highlighted by the successful bi-monthly release on October 1, 2025. Key features include an enhancement that enables users to look up adult foster home details within the applicable customer record.

Throughout October, the deployment team executed multiple mid-sprint deployments to resolve identified defects. The team continues to experience deployment challenges, particularly around communication between the SI and BHA deployment team. The team is working on strategies to address these challenges.

Four post-production defects were identified during the last release, including one high-severity and three medium-severity issues. Root Cause Analysis (RCA) continues to be performed to identify trends for improving overall quality and reducing recurring defects.

The project has made efforts to improve their process for organizing and collaborating on user stories. Going forward, where appropriate, user stories will be grouped into broader epics (groups of related user stories) to improve communication, coordination, and overall management. These changes are scheduled for November 2025.

Automated testing efforts (using TOSCA) have completed 4 newly automated modules, bringing the total to 13 out of 24 modules. The project plans to execute these 13 modules in the next regression test cycle.



Executive Summary

Aug	Sep	Oct	Category	IV&V Observations
L	L	L	Sprint Planning	The BHA team is refining sprint planning by adopting an epic-based approach to better organize work and plan multi-release initiatives. This transition moves beyond the “big rock” model toward a more agile, iterative framework. These changes are scheduled for November 2025. A new team member from the SI has strengthened team expertise, and cross-functional collaboration has increased, with clinical, case management, and grievance teams actively engaged in backlog .
L	L	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	Automated testing with TOSCA has completed four new modules, bringing the total to 13 out of 24, halfway to full automation. Automated modules for DDD are planned for execution in the next regression cycle.

Executive Summary

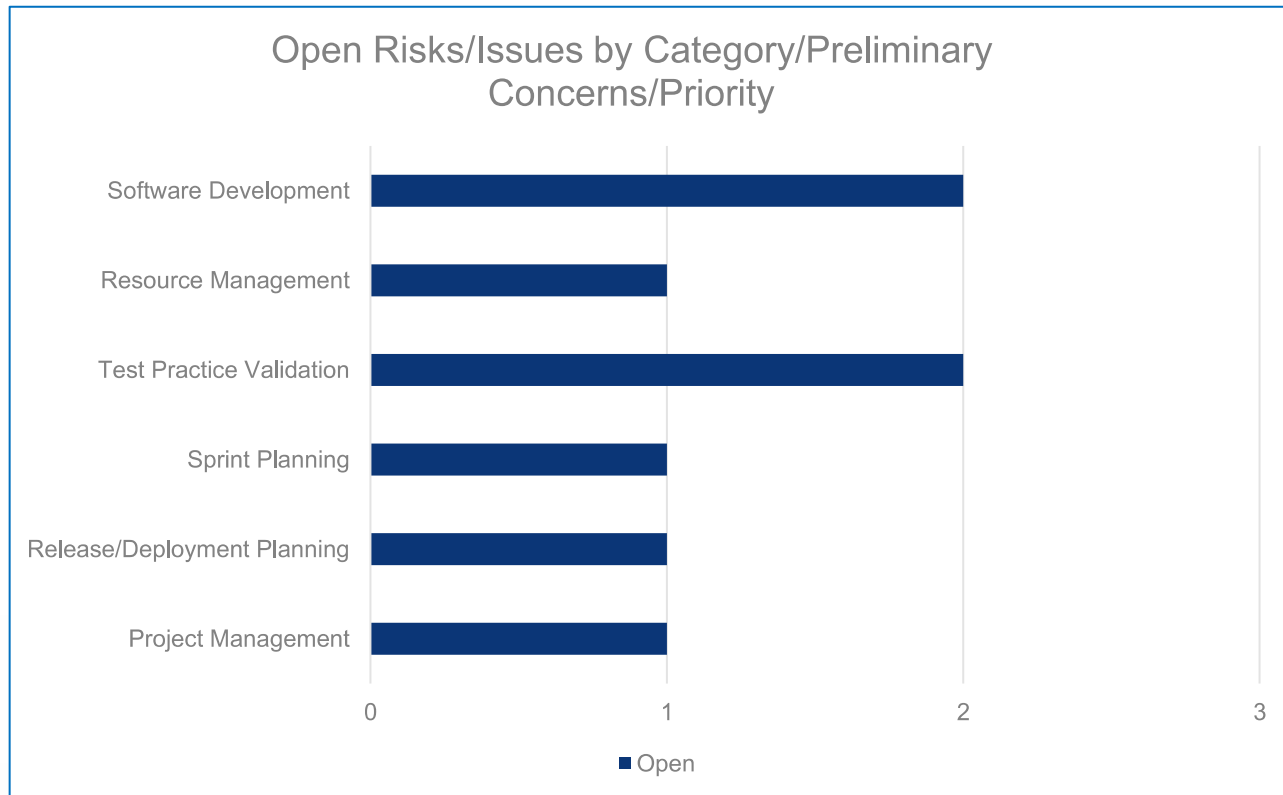
Aug	Sep	Oct	Category	IV&V Observations
M	M	M	Release / Deployment Planning	Following the release of 4.14, production defects are being addressed. Mid-sprint deployments, including a console app fix, introduced some issues. Provider API and Portal report deployments highlighted opportunities to strengthen knowledge transfer and preparation. The team is focusing on improving knowledge sharing and exploring automation for production deployments.
L	L	L	On-The-Job- Training (OJT) and Knowledge Transfer (KT) Sessions	This category remains Green (low criticality) for the October reporting period with no active findings.
L	L	L	Targeted KT	This category remains Green (low criticality) for the October reporting period. IV&V will continue to monitor.
L	L	L	Project Performance Metrics	There are no project performance metrics to report for the October reporting period. IV&V will keep this category's criticality rating Green (low criticality) and will continue to monitor.
L	L	L	Organizational Maturity Assessment (OMA)	This category remains Green (low criticality) for the October reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.

Executive Summary

Aug	Sep	Oct	Category	IV&V Observations
L	L	L	Project Management	<p>The project remains on schedule, highlighted by the successful completion and go-live on October 1, 2025. Key enhancement now allows users to view adult foster home details within customer records.</p> <p>The team continues to closely track defects, focusing on field-reported issues to drive improvements and enhance the user experience.</p>
M	M	M	Resource Management	<p>As the team continues to make progress, limited resources remain a key challenge. The DDD IT Help Desk is currently staffed by three team members who support multiple functions, which may limit capacity and slow issue resolution. Additional cross-trained staff and a dedicated IT training role could help strengthen support. IV&V will continue monitoring to determine whether this area may trend toward high in the coming month.</p>

Executive Summary

As of the October 2025 reporting period, eight (8) open findings. Four (4) Medium Issues, one (1) Low Risk, Two (2) Low Issues, and One (1) Preliminary Concern spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, Project Management, Resource Management, Software Development, assessment areas are currently open.



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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>Low 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.</p> <p>Update: BHA team is currently refining its sprint planning and resource management approach. They are exploring the use of epics to better organize work and plan for larger initiatives that may span multiple releases, moving beyond the current “big rock” approach to a more agile, iterative planning model. A newly integrated team member is actively contributing to E-sign–related efforts, which has strengthened expertise within the team. Collaboration has also improved, with multiple functional areas including clinical, case management, and grievance teams engaged in reviewing and refining backlog items.</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.	In Progress
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.	In Progress
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.	In Progress
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).	In Progress

IV&V Findings & Recommendations

Test Practice Validation

#	Key Findings	Criticality Rating
2	<p>Medium Issue: The lack of comprehensive automated regression testing has likely led to post-production defects, causing user frustration.</p> <p>Finding Update: Regression testing for Release 4.15 is scheduled for 11/20/25 – 12/02/25, with go-live planned for 12/03/25. The Tosca Automation Regression Testing SME will run the automated test scripts completed for DDD, covering approximately 50% of the total tests. CAMHD's automation efforts are currently on hold pending a Tosca upgrade. Automation of the remaining DDD tests is on track for the February 2026 completion target.</p>	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.	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>Low Issue: Limited testing processes can lead to poor-quality software, project delays, and extended user acceptance testing.</p> <p>Finding Update: BHA continues to evaluate high risk areas of the system where additional test coverage could add value. A key post go-live defect revealed that role-based testing was missed on certain steps during the last regression, with the testing team expecting to incorporate this coverage in the next cycle.</p>	L

Recommendations	Status
<p>IV&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>Medium 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.</p> <p>Finding Update: Following Release 4.14 deployment, several production defects were identified and are actively being addressed. Mid-sprint deployments during the month introduced additional issues - most notably a console application fix that resulted in multiple post go-live defects requiring remediation in the next release. Execution issues with the Provider API and Provider Portal report deployments highlighted gaps in knowledge transfer and deployment preparation across the BHA team. Mitigating these risks involves improved knowledge sharing; in addition, automation of production deployments is being explored to reduce reliance on manual execution.</p>	M
Recommendations		Status
IV&V recommends that the project consider targeted efforts to reduce recurring defects, which may include performing Root Cause Analysis (RCA) on all post-production defects.		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.	In-Progress
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>Low 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.</p> <p>Finding Update: IV&V continues to monitor the project team's adherence to the Help Desk and defect management processes and will provide feedback and recommendations to support further alignment with industry best practices.</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>Medium Issue: A shortage of BHA project resources could lead to reduced productivity and project delays.</p> <p>Finding Update: As the team continues to make progress, limited resources remain a key challenge. The DDD IT Help Desk is currently staffed by three team members who support multiple functions, which may limit capacity and slow issue resolution. To enhance support and maintain efficiency, there is a continued need for additional cross-trained staff, along with a dedicated training position focused on IT-related tasks. IV&V will continue monitoring to determine whether this area may trend toward high in the coming month.</p>	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
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>Medium Issue: Due to multiple quality concerns, the project may continue to face impactful system defects.</p> <p>Finding Update: Since the Release 4.14 deployment to Production, One (1) High and three (3) Medium-severity post go-live defects were identified. The project team is actively addressing these defects, which impact key functionality - service authorization generation and data imports via the console application. Root Cause Analysis (RCA) has been conducted, with several defects pending analysis.</p>	M

Recommendations	Status
Closer 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.	Closed

IV&V Findings & Recommendations

Software Development (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
53	Preliminary Concern: The project previously maintained a Lessons Learned document, but it was discontinued. Contributing factors included challenges in ensuring that retrospective discussions remained fully constructive and solution-oriented. As a result, the project currently lacks a comprehensive Lessons Learned document and review process that can be shared across the project to support continuous improvement. The absence of such documentation may limit opportunities to capture insights and drive process enhancements in key areas such as development output, testing effectiveness, and deployment preparation and execution.	

IV&V Findings & Recommendations

Project Performance Metrics

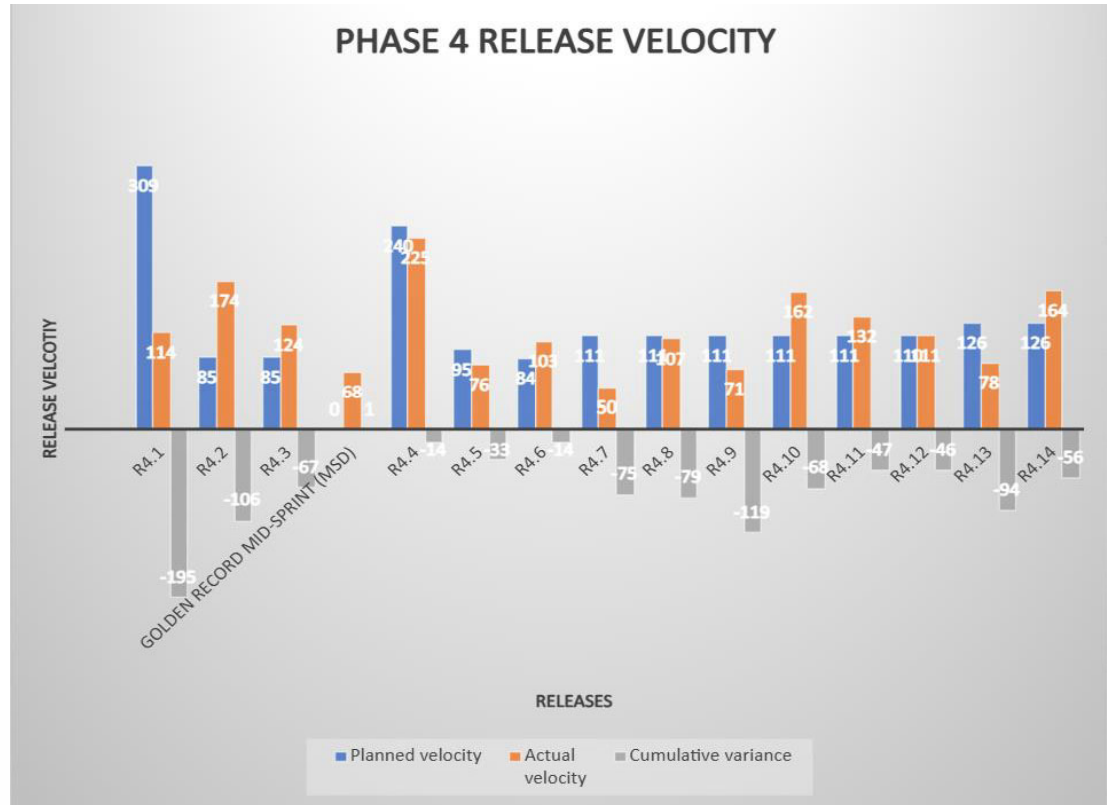
Metric	Description	IV&V Observations	IV&V Updates				
Velocity	<ul style="list-style-type: none">Review and validate the velocity data as reported by the projectVerify the project is on pace to hit the total target number of US/USP	October: R4.14 was deployed to Production on 10/1/2025. Mid-Sprint deployments occurred on 10/3, 10/20 and 10/21. R4.15 is planned for production on 12/3/2025.	Velocity Metric Trends:				
			Release	Planned velocity	Actual velocity	Percentage attained	
			R4.14	126	164	130%	

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
R4.14	126	164	-56



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">• Defects by category (bug fixes)• USPs assigned to defects in a release vs. USPs assigned to planned US in a release	<p>October – Velocity was estimated at 126 USPs for R4.14, 164 USPs were promoted to production on 10/1/25. 43 of the 164 USPs were for defect fixing.</p> <ul style="list-style-type: none">•74% of the USPs were associated with user stories and requests.•26% of the total USPs were associated with defects encountered during the release effort or pulled from the defect backlog.	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

G

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).

Y

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.

R

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.
	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.
	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 October 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 October 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



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Appendix C: Project Trends

Appendix C

Project Trends

	January	February	March	April	May	June	July	August	September	October
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	11	10	9	10	10	10	8	7	8
Issue - high	0	0	0	0	0	0	0	0	0	0
Issue - medium	10	7	9	7	7	7	7	4	3	3
Issue - low	1	3	0	0	0	0	0	2	3	3
Risk - high	0	0	0	0	0	0	0	0	0	0
Risk - medium	2	1	1	1	0	0	0	0	0	0
Risk - low	0	0	0	1	1	1	1	1	1	1
Preliminary Concern	2	0	0	0	1	2	2	1	0	1

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	Division	Title	State	Priority	Severity	Found In	Created Date
41226	Bug	DDD	DDD - Service Authorization Generation Issues	Completed in Dev	1	2 - High	PROD	10/7/2025 9:36
37733	Bug	DDD	DDD - Incorrect Columns displaying on Provider Plan subgrid (Action Plan t	Evaluated_On Hold	1	3 - Medium	PROD	2/5/2025 7:37
41318	Bug	DDD	DDD - Check not parsing fully in INSPIRE	New	2	3 - Medium	PROD	10/24/2025 12:51
41185	Bug	CAMHD	CAMHD - 835 records Owner not being set	Approved	2	3 - Medium	PROD	10/3/2025 11:51
40891	Bug	DDD	DDD - Power Automate flow bug - Community Living: Create Document Loc	Pending Approval	2	3 - Medium	PROD	8/25/2025 10:53
40855	Bug	DDD	DDD - Calculator one-time mid-year change ISP report discrepancy	New	2	3 - Medium	PROD	8/20/2025 7:49
40776	Bug	DDD	DDD - Calculator Objective unchecking problem	Approved	2	3 - Medium	PROD	8/6/2025 12:46
37793	Bug	DDD	DDD - ISP Report Generation Issues	New	2	3 - Medium	PROD	2/10/2025 12:06
36383	Bug	DDD	DDD - Calculator problem with paid base and add on	New	2	3 - Medium	PROD	9/26/2024 12:19
35450	Bug	DDD	DDD - Calculator not printing correctly	Approved	2	3 - Medium	PROD	7/26/2024 11:36
35317	Bug	DDD	DDD - Plan Services with no Provider Plan	Active	2	3 - Medium	PROD	6/24/2024 12:06
34238	Bug	CAMHD	CAMHD - Assessment Entity Initial Save Time - IMHE	Evaluated_On Hold	2	3 - Medium	Prod	8/17/2023 5:33
34110	Bug	DDD	Bug - Individual Budget unlinking from Service Authorizations	New	2	3 - Medium	PROD	7/27/2023 18:40
30726	Bug	DDD	Portal signature fields do not accept touchscreen input	Evaluated_On Hold	2	3 - Medium	PROD	9/17/2021 12:07
34242	Bug	DDD	Bug - Case Merge - Contact Notes not merging; Permissions error	New	3	3 - Medium	PROD	8/17/2023 11:44
33841	Bug	DDD	DDD - Calculator 3.0 - Users able to schedule service past ISP end date aga	Approved	3	3 - Medium	PROD	5/17/2023 11:22
33550	Bug	CAMHD	Bug: "Progress Notes Associated to Invoices" page not loading	New	3	3 - Medium	PROD	3/31/2023 20:11
30634	Bug	CAMHD	CAMHD Bug - Credentialing documents not copied into PROD during Data M	Completed in QA_Test	3	3 - Medium	PROD	2/16/2021 17:45





Solutions that Matter

	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. 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.	1. To ensure effective Tosca testing, it's 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. 2. A balanced approach that combines manual and automated regression testing to ensure broad test coverage and flexibility. 3. 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. 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. 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. 6. IV&V recommends DDD and CAMHD to develop a common and consistent approach across divisions for performing regression testing. 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.	10/31/25 - Regression testing for Release 4.15 is scheduled for 11/20/25 -- 12/02/25, with go-live planned for 12/03/25. The Tosca Automation Regression Testing SME will run the automated test scripts completed for DDD, covering approximately 50% of the total tests. CAMHD's automation efforts are currently on hold pending a Tosca upgrade. Automation of the remaining DDD tests is on track for the February 2026 completion target. Regression testing for Release 4.15 is scheduled for 11/20/25 - 12/02/25, with go-live planned for 12/03/25. The approach will be for DDD and CAMHD to run their test cases, along with The Tosca Automation Regression Testing SME running the automated tests completed in the prior and current month (representing approximately 50% of total tests). Automation of the remaining tests is on track for the February 2026 completion target. 9/30/25 - 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. 8/31/25 - Regression testing for Release 4.14 is scheduled for 9/22/25 - 9/30/25, with go live planned for 10/1/25. The mid-month renewal of Tosca licenses by BHA enabled the Tosca Automation Regression Testing SME to resume development of automated DDD test scenarios and allows CAMHD to restart the execution of automated test scripts. 7/31/25 - Release 4.13 Regression testing for 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. 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. 5/31/25 - Regression testing was successfully executed from 5/19/2025 to 5/28/2025. PCO'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. 4/30/25 - R4.11 Regression testing was successfully executed from 3/25/2025 to 4/2/2025. CAMHD executed both manual and automated tests, while DDD	Test Practice Validation	Issue	Medium	Open					12/31/2019	Gautam Gulvady	
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 multi-faceted 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, User 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, continue for Agile Release 3.11 forward. Finally, IV&V reviewed and provided feedback on the Help Desk and Semantic Layer design documents per request and found that both documents lacked design details. The identified quality issues have negatively affected DOH billing processes and DOH has stated these are the most impactful defects discovered to date.	IV&V recommends: 1. Closer collaboration between divisions to review reported defects, ensuring a shared understanding and alignment, particularly regarding the severity 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 secure and can be easily maintained. 3. The project increases comprehensive testing prior to joint testing to 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. 7. The project perform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected. 8. The project assign dedicated resources to provide oversight of CAMHD Fiscal Processes. 9. The project monitor implemented improvements for effectiveness. 10. Performing an RCA in collaboration with the SI after all future release deployments for continual quality improvement.	4/30/25 - R4.11 Regression testing was successfully executed from 3/25/2025 to 4/2/2025. CAMHD executed both manual and automated tests, while DDD 10/31/25 - Since the Release 4.14 deployment to Production, One (1) High and three (3) Medium-severity post go-live defects were identified. The project team is actively addressing these defects, which impact key functionality - service authorization generation and data imports via the console application. Root Cause Analysis (RCA) has been conducted, with several defects pending analysis. 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. 8/31/2025 - 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 RA.13 defects, upcoming release readiness, and any Mid-Sprint Deployments (MSDs). 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 RA.13. While remediation efforts for existing production defects continue (see Appendix E), resolution of lower-priority issues has been delayed as BHA focuses on higher-priority tasks. The RA.13 went live on 7/30/25. IV&V will continue to monitor key areas, including RA.12 defect resolution, future releases and any Mid-Sprint Deployments (MSDs). 6/30/25 - Since the RA.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. IV&V will continue to monitor key areas, including RA.12 defect resolution, PHR implementation, any Mid-Sprint Deployments (MSDs), and progress on the AER solution. 5/31/25 - RA.12 was deployed to production on 5/29/25, followed by successful smoke testing on 5/30/2025. Users have reported three (3) production defects which the project team is analyzing. During May 2025, one new medium-severity production defect was reported. The project team continues remediation of existing production defects (see Appendix E), though resolution of lower-priority issues has been delayed as BHA focuses on higher-priority tasks. Additional production defects may emerge as users continue to engage with the RA.12 functionality post-go-live. 4/30/25 - RA.11 was successfully deployed on 4/5/2025, 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 RA.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 RA.11 deployment, and the project team is currently working to confirm the number of new defects. The project team continues to address other outstanding production defects (see Appendix E for details). BHA is currently prioritizing higher-severity tasks, which have delayed the resolution of lower-	Software Development	Issue	Medium	Open					9/30/2020	Gautam Gulvady	
34	Limited BHA resources	Shortage of Behavioral Health Administration (BHA) project resources could lead to reduced productivity and project delays.	Key BHA project resources have reported constraints on how much time they can devote to 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 the project if DOH cannot acquire suitable resources. The lack of capacity of the DOH test script developer has slowed DOH's automated test script development. If BHA is unable to fully staff the project and their existing resources continue to be constrained, the project could experience a reduction in productivity and project delays.	IV&V recommends: 1. 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. 2. 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. 3. 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. 4. DDD and CAMHD have further discussions to optimize resource utilization between the two divisions. 5. BHA should explore options for offloading project team members' daily responsibilities to other staff. 6. BHA should work quickly to create new positions and receive State 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. 8. BHA should explore the use of contractors to fulfill the functions for open project positions.	10/31/25 - As the team continues to make progress, limited resources remain a key challenge. The DDD IT Help Desk is currently staffed by three team members who support multiple functions, which may limit capacity and slow issue resolution. To enhance support and maintain efficiency, there is a continued need for additional cross-trained staff, along with a dedicated training position focused on IT-related tasks. IV&V will continue monitoring to determine whether this area may trend toward high in the coming month. 9/30/25 - 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. 8/31/25 - BHA is in the process of recruiting for a supervisory role to help balance workload and support various team functions, including security-related responsibilities. In the interim, existing staff will continue to manage certain security coordination tasks. This gap may impact the timeliness and coverage of security-related activities until dedicated resources are in place. 7/31/25 - BHA continues to address its resource constraints by actively recruiting a supervisory role for the project team. Additionally, they are pursuing a Business Analyst position. They are exploring areas around security which could help with monitoring user activity along with PMF and third-party risk assessments. These developments mark progress in building internal capacity, and the team remains focused on enhancing both support and accountability within the project. 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 resources to address capacity constraints and maintain focus on critical project activities. 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.	Resource Management	Issue	Medium	Open					8/18/2023	Michael Fors	

	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Type	Priority	Status	Closure Reason	Closed Date	Identified Date	Owner					
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.azure.com/DDO/BHA/DO/2020-BHA/ANQ/INSPIRE/_workitems/edit/34886), what is in development and deployed is vastly different from what was deployed to production. 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.	1. IV&V recommends that the project consider targeted efforts to reduce recurring defects, which may include performing Root Cause Analysis (RCA) on all post-production defects. 2. IV&V recommends that BHA and the SI work together to determine which production defects, including those of lower 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. 3. 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 RCA 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. 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 PMs can track these actions to ensure follow-through. 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.	10/31/25 - Following Release 4.14 deployment, several production defects were identified and are actively being addressed. Mid-sprint deployments during the month introduced additional issues - most notably a console application fix that resulted in multiple post go-live defects requiring remediation in the next release. Execution issues with the Provider API and Provider Portal report deployments highlighted gaps in knowledge transfer and deployment preparation between the SI and BHA. Mitigating these risks involves improved knowledge sharing; in addition, automation of production deployments is being explored to reduce reliance on manual execution. 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. 8/31/25 - 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. 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 deployments, the continued absence of defined root cause analysis (RCA) protocols including criteria such as defect severity, recurrence, and business impact reflects a broader and ongoing gap 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. 6/30/25 - 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 formal 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 at a later date 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. 5/31/25 - R4.12 was successfully deployed to production on 5/29/2025. However, there was a misunderstanding about whether one of the items on the deploy list was actually deployed. IV&V is having discussions with the deployment team on how the process can be improved to avoid such	Release/Deployment Planning	Issue	Medium	Open								Gautam Gulvady	
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 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.	1. IV&V recommends enhancing the testing scripts across testing overall 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. 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. 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. 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 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. 3. IV&V recommends that, after fixing a defect, the SI incorporate relevant test cases to validate these fixes in subsequent releases. 4. IV&V has requested discussions on various aspects of the INSPIRE testing process with a focus on process such as tracking test coverage and	10/31/25 - BHA continues to evaluate high risk areas of the system where additional test coverage could add value. A key post go-live defect revealed that role-based testing was missed on certain steps during the last regression, with the testing team expecting to incorporate this coverage in the next cycle. 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. 08/31/25 - 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. 7/31/25 - While regression testing for Release 4.13 was executed successfully as scheduled (7/21/2025 – 7/29/2025), the continued reliance on manual testing, especially during Tosca license renewal, underscores 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. 6/30/25 - 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. 5/31/25 - R4.12 was deployed to production on 5/29/2025, followed by successful smoke testing on 5/30/2025. However, users subsequently reported three production defects that were expected to have been identified during smoke testing. R4.12 regression testing was conducted from 5/19/2025 to 5/28/2025 and completed successfully. CAMHD and DDD focused on manual regression testing. Additionally, the Tosca automation expert is reviewing current functionality to identify optimization opportunities and is developing recommendations and effort estimates to enhance the automated regression testing framework. The project team continues to work on resolving outstanding production defects (see Appendix E). IV&V will continue to monitor key areas, including R4.12, FHIR implementation, any Mid-Sprint Deployments (MSDs), and the AER solution for quality issues.	Test Practice Validation	Issue	Low	Open					1/25/2024 - The R4	1/31/2024	Gautam Gulvady		
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. A product backlog review is an essential part of agile project management, particularly in Scrum. It's a collaborative meeting where the Scrum team, including the Product Owner, Scrum Master, and development team members, inspect and adapt the product backlog. The product backlog review is an important Scrum ceremony that helps keep the backlog relevant, up-to-date, and aligned with the project's goals and priorities. Here's a summary of what typically happens during a product backlog review: 1. Inspecting Backlog Items: The team reviews the items on the product backlog. This involves discussing each item, understanding its priority, value, and acceptance criteria. 2. Ensuring Clarity: The team ensures that each backlog item is clear and well-understood. Any ambiguities or uncertainties are clarified at this stage. 3. Estimation: Estimation of backlog items may occur during the review. The team may use techniques like story points or relative sizing to estimate the effort required for each item. 4. Re-prioritization: Based on new insights, changes in requirements, or stakeholder feedback, the team may need to re-prioritize items in the backlog. 5. Removing or Adding Items: Items that are no longer relevant or necessary may be removed from the backlog. New items that emerge or are identified as important may be added. 6. Refinement: Backlog refinement may also occur during the review. This involves breaking down large items into smaller, more manageable ones, or adding more detail to items as needed. 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	1. BHA continue to conduct these meetings regularly and mature the practice over time, as they provide tangible value in sustaining project velocity and reducing rework. 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. 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 including items mid-sprint would have to be taken. 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 (DDD) of the next release(s).	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 10/31/25 - BHA team is currently refining its sprint planning and resource management approach. They are exploring the use of epics to better organize work and plan for larger initiatives that may span multiple releases, moving beyond the current "big rock" approach to a more agile, iterative planning model. A newly integrated team member is actively contributing to E-sign-related efforts, which has strengthened expertise within the team. Collaboration has also improved, with multiple functional areas including clinical, case management, and grievance teams engaged in reviewing and refining backlog items. 9/30/25 - 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. 8/31/25 - 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. 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. 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 capacity. 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 acclimating to roles and processes. IV&V plans to attend future backlog prioritization meetings to support this effort.	Sprint Planning	Risk	Low	Open					1/26/2024		Gautam Gulvady		

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.	IV&V recommends: 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. 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 SI and come up with a plan to improve.	10/31/25 - IV&V continues to monitor the project team's adherence to the Help Desk and defect management processes and will provide feedback and recommendations to support further alignment with industry best practices. 9/30/25 - IV&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&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. 8/31/2025 - IV&V notes 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&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. 7/31/25 - IV&V will continue to assess the project's adherence to Help Desk and defect management processes. IV&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. 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. 4/30/25 - IV&V has reviewed the documentation outlining the Help Desk process. IV&V continues to observe increased project focus on both the Help Desk and defect management processes, and will monitor adherence to these processes while providing feedback and recommendations based on best practices. . Meanwhile, BHA is reviewing the previously provided Help Desk documentation and considering adopting and enforcing the outlined defect management procedures. 3/31/25 - In March 2025, the SI provided documentation that was originally created in 2019, outlining the Help Desk process. IV&V is continuing its review of the process and will provide feedback and recommendations based on best practices in April 2025. Notably, the project has placed increased attention on this area, which is a positive development. As a result of this heightened focus, IV&V has observed a corresponding rise in the number of defects being logged in Azure DevOps (ADO), indicating stronger adherence to reporting protocols and greater transparency in issue tracking. Productive discussions are underway to address critical defects. By reviewing the Help Desk process and addressing any gaps, IV&V anticipates improvements in the overall defect management approach. BHA usually receives issues by email or helpdesk calls, with most reports submitted by email. Depending on the severity of the defect, BHA	Project Management	Issue	Low	Open				9/30/2024	Gautam Gulvady	
53	Lessons Learned activities	The project previously maintained a Lessons Learned document, but it was discontinued. Contributing factors included challenges in ensuring that retrospective discussions remained fully constructive and solution-oriented. As a result, the project currently lacks a comprehensive Lessons Learned document and review process that can be shared across the project to support continuous improvement. The absence of such documentation may limit opportunities to capture insights and drive process enhancements in key areas such as development output, testing effectiveness, and deployment preparation and execution.	The absence of a documented and consistent Lessons Learned document may limit opportunities for continuous improvement. This could result in challenges during requirements gathering, testing, and deployment activities. Over time, this could lead to increased troubleshooting efforts and reduced system quality, as recurring issues may not be systematically identified or addressed.			Software Development	Preliminary Concern		Open			10/24/2025	Justin Ho		