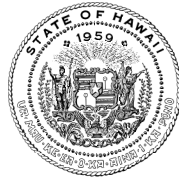


JOSH GREEN, M.D.  
GOVERNOR  
KE KIA'AINA



**DEPT. COMM. 001-131**

KEITH A. REGAN  
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**STATE OF HAWAII | KA MOKU'ĀINA O HAWAII'**  
**DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES | KA 'OIHANA LOIHELU A LAWELAWE LAULĀ**  
**OFFICE OF ENTERPRISE TECHNOLOGY SERVICES | KE'ENA HO'OLANA 'ENEHANA**  
P.O. BOX 119, HONOLULU, HAWAII 96810-0119

December 16, 2024

The Honorable Ronald D. Kouchi  
President of the Senate  
and Members of the Senate  
Thirty-Second State Legislature  
State Capitol, Room 409  
Honolulu, Hawai'i 96813

The Honorable Nadine K. Nakamura  
Speaker and Members of the  
House of Representatives  
Thirty-Second 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  
November 1 – November 30, 2024*

*Final Submitted: December 11, 2024*

# Agenda

Executive Summary

IV&V Findings & Recommendations

Appendices

- A – Rating Scales
- B – Inputs
- C – Project Trends
- D – Acronyms and Definitions



# Executive Summary

The project is steadily advancing in its efforts to enhance the functionality of the INSPIRE system. The project continues to perform regression testing manually due to ongoing issues with BHA's automated testing scripts. IV&V recommends BHA continue making efforts to resolve automated testing script issues in order to realize the benefits of automated testing, which may include reducing human error, more consistent outcomes, better coverage, and reduced production defects.

IV&V remains concerned regarding the occurrence of defects in the production environment (otherwise known as “leakage”), which typically indicates issues with the unit, system integration, and UAT testing. The project has chosen to prioritize the development of new functionalities by allowing many lower-priority defects to remain in production.

The deployment of Fast Healthcare Interoperability Resources (FHIR) has been postponed, with the project now targeting a January 2025 deployment. IV&V continues to be concerned that FHIR development scope creep may slow the implementation of other system features, potentially impacting system effectiveness, diminished user productivity, and user frustration.

IV&V remains concerned that limited BHA resources could create project delays and reduce system quality. IV&V continues to recommend that the project streamline communications between BHA divisions in order to increase the productivity of project decision-making, coordination, and other project activities.

The project is taking steps to improve their overall system and defect tracking governance. BHA leadership remains concerned about the inconsistent logging of defects by users and the Help Desk. BHA has yet to develop a documented governance process for restarting production systems. The lack of good system governance processes can lead to confusion, reduced quality assurance, and inefficient development processes.

BHA is currently satisfied with the system integrator's (SI) adherence to the allocated budget for developing high-effort features, also known as 'Big Rock' items. However, BHA remains concerned about Med-QUEST's long-standing issues with tracking federal financial participation and claims submissions which persist despite repeated efforts to resolve and could impact project funding. The project aims to strengthen their overall project governance by providing well-defined processes.

# Executive Summary

Sep	Oct	Nov	Category	IV&V Observations
Y	Y	Y	<b>Sprint Planning</b>	<p>Sprint reviews and demos are currently conducted on an ad hoc basis, without regular meetings. Demos are informal, often relying on quick conversations or screen sharing, which can result in inconsistent feedback and delayed issue identification. The IV&amp;V team recommends that the System Integrator (SI) vendor establish regular sprint reviews and demos to ensure structured feedback, enhance visibility into completed features, and improve team coordination.</p> <p>The DDD team will hold a meeting in November to review and prioritize the product backlog based on business value and urgency, ensuring alignment with project goals. BHA plans to invite the IV&amp;V team to participate in the backlog review meetings.</p>
G	G	G	<b>User Story (US) Validation</b>	<p>There are no active findings in the User Story (US) Validation category, which remains Green (low criticality) for the September reporting period. IV&amp;V will continue to monitor the US development and validation process in upcoming reporting periods.</p>
Y	Y	Y	<b>Test Practice Validation</b>	<p>The project continues to perform regression testing manually due to ongoing issues with BHA's automated testing scripts. IV&amp;V recommends BHA continue making efforts to resolve automated testing script issues in order to realize the benefits of automated testing, which may include reducing human error, more consistent outcomes, better coverage, and reduced production defects.</p> <p>IV&amp;V has identified key testing areas to discuss with project representatives for a better understanding of the INSPIRE testing process. DDD will organize these meetings.</p>



# Executive Summary

Sep	Oct	Nov	Category	IV&V Observations
Y	Y	Y	<b>Release / Deployment Planning</b>	<p>The Root Cause Analysis (RCA) for the medium severity defect, hot-fixed on October 24, 2024, is still pending. No deployments occurred in November 2024, and R4.9 is set for December 2024. The IV&amp;V team will monitor the quality of the R4.9 deployment and MSDs.</p> <p>BHA plans to digitize approximately 2.5 million paper documents to transition to a paperless system. The current SharePoint site cannot handle the expected volume without a redesign.</p> <p>Although the System Integration (SI) team has been working to enhance a process that typically takes about 15 days and occurs once or twice a year, DDD has decided to pause further development due to SharePoint limitations. If DDD encounters issues with the existing process, it will reevaluate the need for enhancements.</p>



# Executive Summary

Sep	Oct	Nov	Category	IV&V Observations
G	G	G	<b>On-The-Job-Training (OJT) and Knowledge Transfer (KT) Sessions</b>	This category remains Green (low criticality) for the November reporting period with no active findings.
G	G	G	<b>Targeted KT</b>	This category remains Green (low criticality) for the November reporting period. IV&V will continue to monitor.
G	G	G	<b>Project Performance Metrics</b>	There are no project performance metrics to report for the November reporting period. IV&V will keep this category's criticality rating Green (low criticality) and will continue to monitor.
G	G	G	<b>Organizational Maturity Assessment (OMA)</b>	This category remains Green (low criticality) for the November reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.



# Executive Summary

Sep	Oct	Nov	Category	IV&V Observations
Y	Y	Y	<b>Project Management</b>	<p>As of the end of this reporting period, 19 production defects remain open, including 17 medium-severity and two high-severity defects, despite testing at all levels. The SI has reported that BHA's prioritization process focuses on addressing higher-priority tasks, leaving lower-priority defects unresolved.</p> <p>Due to resource challenges at BHA and Microsoft (MS), the project will restart performance tests for both DDD and CAMHD, despite having completed CAMHD earlier. MS has finished testing CAMHD and will test DDD after the R4.9 deployment, with an estimated completion time of 1 to 2 weeks.</p> <p>BHA and IV&amp;V have highlighted the need for tracking costs related to key functionalities like the Provider Portal and FHIR. In September 2024, IV&amp;V suggested using Tags in Azure DevOps for cost tracking, which BHA stakeholders accepted. While BHA is satisfied with the system integrator's budget compliance for major functionalities, they are concerned about Med-QUEST's ongoing challenges in tracking federal financial participation allotments and the claims submission process. These issues have persisted since the project began and remain unresolved despite efforts to address them. These deficiencies require considerable time to make corrections and may require additional funding.</p> <p>The project is taking steps to improve their overall system and defect tracking governance. BHA leadership remains concerned about the inconsistent logging of defects by users and the Help Desk. BHA has yet to develop a documented governance process for restarting production systems. The lack of good system governance processes can lead to confusion, reduced quality assurance, and inefficient development processes.</p> <p>Med-QUEST has corrected the missing Uniform Billing (UB) Claims Forms data and is refining the data and machine learning (ML) model. They will now provide claims data monthly, whereas it was not offered regularly before.</p>





# Executive Summary

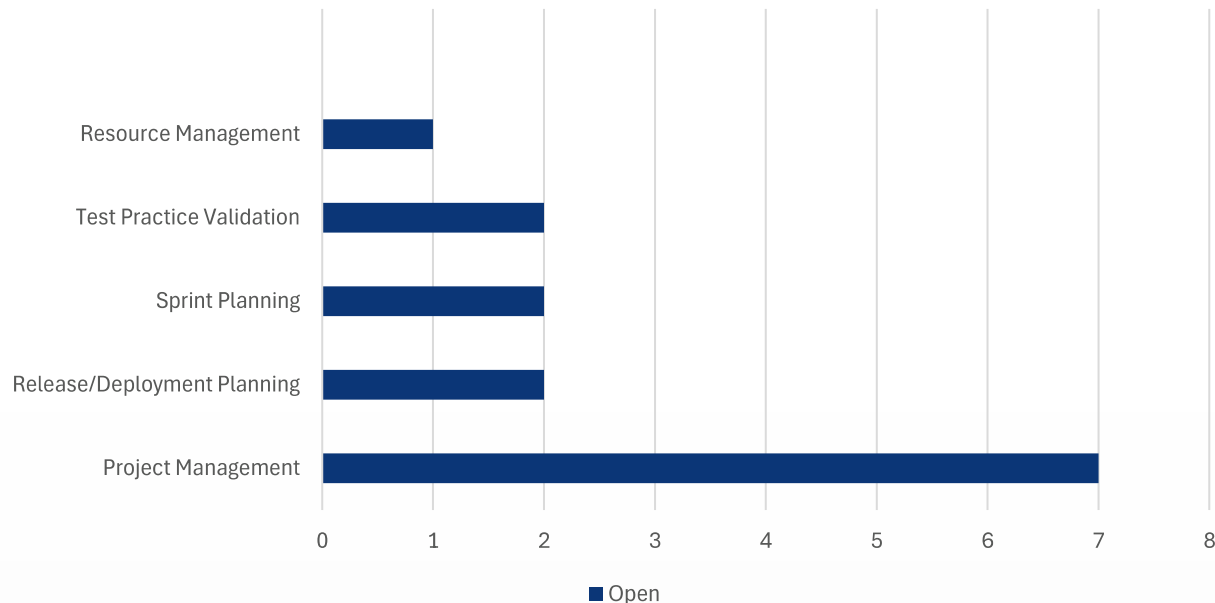
Sep	Oct	Nov	Category	IV&V Observations
Y	Y	Y	Resource Management	IV&V remains concerned that limited BHA resources could create project delays and reduce system quality. BHA requested funding for additional project resources, however the request was not approved by the State. BHA plans to resubmit the request in next year's budget and will continue to look for other resource and funding options. IV&V continues to recommend that the project streamline communications between BHA divisions in order increase productivity of project activities and decision-making.



# Executive Summary

*As of the November 2024 reporting period, eleven (14) open findings were updated – Nine (9) Medium Issues, two (2) Medium Risks, one (1) Low Issue, and two (2) Preliminary Concern spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, Project Management, and Resource Management assessment areas are currently open.*

Open Risks/Issues by Category/Preliminary Concerns/Priority



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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

#	Key Findings	Criticality Rating
31	<p><b>Medium Risk:</b> A lack of regular Sprint Reviews and Sprint Demos will likely lead to misalignments between delivered work and stakeholder needs.</p> <p><b>Finding Update:</b> The project has indicated that sprint reviews and demos are conducted on an ad hoc basis, depending on the completion of features. There are no regular meetings scheduled for sprint reviews. Demos are typically performed informally, often through quick conversations or screen sharing, based on the priority and readiness of the features. This informal approach to demos may result in inconsistent feedback collection and delayed issue identification, which can negatively impact the overall effectiveness of the sprint. IV&amp;V recommends that the SI vendor establish regular sprint reviews and demos to ensure structured feedback, provide more visibility into all completed features, and improve team coordination.</p>	
Recommendations		Status
<p>According to Agile Best Practices, IV&amp;V recommends including Sprint Reviews and Demos in future releases (R4.2 and onwards). At the end of each sprint, conduct a sprint review meeting to demonstrate the completed work to stakeholders and gather feedback. Use this feedback to refine and reprioritize the product backlog. For a two-month sprint, IV&amp;V recommends having more than one (1) demo during the sprint.</p>		In Progress
<p>Create a stakeholder register to identify all stakeholders. List their identification, assessment, and classification. Review the register regularly to plan appropriate stakeholder engagement.</p>		In Progress
<p>Foster active participation from users and stakeholders during both Sprint Reviews and Sprint Demos. Emphasize the value of iterative feedback to guide development and ensure that user needs are consistently met.</p>		In Progress



# IV&V Findings & Recommendations


## Sprint Planning (cont'd)

Recommendations	Status
Establish standardized communication protocols for both Sprint Reviews and Sprint Demos. Encourage teams to deliver concise and informative progress reports, including achievements, challenges, and plans. This will enhance stakeholder engagement and project transparency.	In Progress
Institute a structured documentation process for Sprint Reviews and Sprint Demos. Document key decisions, action items, and insights from each session to ensure accountability and to support ongoing process improvement.	In Progress



# IV&V Findings & Recommendations


## Sprint Planning (cont'd)

#	Key Findings	Criticality Rating
41	<p><b>Medium Risk:</b> 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.</p> <p><b>Finding Update:</b> The DDD team has scheduled a meeting for this month (November) to review the product backlog. During this session, the team will assess the current backlog items, prioritize them according to business value and urgency, and ensure they align with the overall project goals. BHA plans to invite the IV&amp;V team to participate in the backlog review meetings.</p>	
Recommendations		Status
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> As a result of regression testing not being consistently performed, production releases are breaking existing functionality in the production environment.</p> <p><b>Finding Update:</b> For the 3rd consecutive release (releases 4.7 through 4.9), regression testing is being done solely manually. Relying solely on manual regression testing without any automation could introduce risks and inefficiencies such as increased time and effort that may lead to delays, human error, inconsistencies as testing outcomes can vary depending on the individual tester, limited test coverage, risk of production defects since manual testing is prone to human error and the likelihood of defects slipping through to production increases, and the dependence on specific testers' expertise and knowledge.</p> <p>IV&amp;V recommends continuing investing in automated regression testing as it can improve efficiency and reduce the burden on BHA staff and ensure better product quality over time.</p>	
Recommendations		Status
<p>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.</p>		Open
<p>A balanced approach that combines manual and automated regression testing to ensure broad test coverage and flexibility.</p>		Open





# 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
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> Insufficient testing processes can lead to poor-quality software, project delays and extended user acceptance testing.</p> <p><b>Finding Update:</b> IV&amp;V has identified specific testing areas to discuss with the appropriate project representatives to gain a deeper understanding of the INSPIRE testing process. DDD has agreed to facilitate the organization of these meetings.</p>	
Recommendations		Status
IV&V has requested an overview of the testing process, with a focus on process such as tracking test coverage and requirements traceability.		In Progress
A Stakeholder Register helps identify and understand all project stakeholders, ensuring their needs are met and risks are managed through effective communication. A RACI 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> The Root Cause Analysis (RCA) for the medium severity defect (for which a hot fix was deployed on 10/24/24) is still pending. There were no deployments in November 2024; R4.9 is scheduled to be deployed in December 2024. IV&amp;V will monitor the quality of the upcoming R4.9 deployment and MSDs.</p>	
Recommendations		Status
<p>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.</p>		Open
<p>Ensure there are adequate and qualified resources to support the current deployment processes. This may require support from RSM resources to provide assistance and knowledge transfer for some more complex deployment components.</p>		Open




# IV&V Findings & Recommendations

## Release / Deployment Planning (cont'd)

Recommendations	Status
As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	Open
Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with the consistency of configurations across environments, ensuring that the test environment is capable of testing ALL functions of any given release without the need for using multiple test environments.	Open
Request assistance from the RSM Solution Architect in reviewing deployment scripts to double-check for accuracy and completeness before commencing deployment activities.	Open
The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.	Open
IV&V recommends performing a Root Cause Analysis (RCA) in collaboration with RSM for the continued concerns surrounding environment differences.	Open
IV&V recommends updating the Project's Configuration Management Plan to address the current needs of the Project. This should include specific checklists geared at ensuring repeatable promotional processes by DOH.	Open
Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed.	Open
Ensure an operational and fully functional test environment is available to effectively conduct end-to-end regression testing prior to deploying a release to production.	Open
Develop a plan to institutionalize the execution of smoke testing for promotions to non-production and production environments. This will help to ensure that all components needed to test have been properly deployed prior to the actual execution of test activities.	Open


# IV&V Findings & Recommendations

## Release / Deployment Planning

#	Key Findings	Criticality Rating
43	<p><b>Medium Issue:</b> Execution time for the process for updating DDD SharePoint folders was unacceptable.</p> <p><b>Finding Update:</b> BHA plans to launch an initiative to digitize approximately 2.5 million paper documents as part of a broader effort to transition to a paperless system. While the SI has been working on enhancing the existing process which previously required around 15 days to complete, the current SharePoint site cannot accommodate the anticipated volume without a redesign of the SharePoint hierarchy.</p> <p>Considering the low frequency of the process (only once or twice per year) and the challenges posed by the SharePoint limitations, DDD has decided to pause further development on these improvements. However, if DDD encounters difficulties in executing the existing process, it will reevaluate the need for these enhancements.</p>	
Recommendations		Status
IV&V recommends doing an impact analysis, e.g., downstream impact.		Open
IV&V recommends that DDD puts on hold any development utilizing Power Automate for the performance issue encountered in production (marked "TBD" in finding #14 related to "SharePoint Bulk Flows still running") and related User Stores, e.g., "Changes to DDD folders," and defects.		Open
IV&V recommends evaluating other feasible options, e.g., leveraging SharePoint tools and best practices.		Open
A project issue should be opened to identify and manage the resolution of this issue.		Open

# IV&V Findings & Recommendations


## Project Management (cont'd)

#	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> R4.9 is scheduled to be deployed to production on 12/5/2024. In the current production system, there exists 19 outstanding production defects (17 are classified as medium severity and 2 as high severity). These production defects arose despite testing at all levels. The SI has indicated that BHA prioritizes its work, which results in lower-priority defects remaining unresolved in favor of higher-priority tasks. The SI is making a concerted effort to report and fix these production defects as IV&amp;V and BHA remain concerned that code quality issues continue to impact the project, and users continue to be impacted by post-production bugs.</p>	
Recommendations		Status
The project increases comprehensive testing prior to joint testing to reduce the burden on BHA testers and reduce post-production defects.		Open
The SI vendor add a "Found In" column to the daily scrum file to indicate the environment where each defect was identified.		In Progress
The SI vendor provides the total number of defects in production and reports these numbers regularly to BHA.		In Progress
Evaluate existing project staff skills and experience levels to ensure they meet BHA support requirements.		In Progress
Perform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.		In Progress



# IV&V Findings & Recommendations

## Project Management (cont'd)

#	Key Findings	Criticality Rating
33	<p><b>Medium Issue:</b> Performance bottlenecks with the INSPIRE production environment may result in low productivity and poor user experience.</p> <p><b>Finding Update:</b> Due to BHA and Microsoft (MS) resourcing challenges, despite completing the CAMHD performance test earlier, the project decided to execute the test from the beginning for both DDD and CAMHD. MS has completed performance testing the CAMHD functionality and will conduct performance testing for the DDD-scoped items after the deployment of R4.9 to production. The estimated timeline for completion is 1–2 weeks.</p>	
Recommendations		Status
IV&V recommends: BHA execute a performance test during the development of R4.6 (planned completion 5/20/2024), identifying test cases and scenarios that include both DDD and CAMHD functionality, transactions/functionality that are performance intensive, e.g., calculator functionality		In Progress
Conduct load and performance testing for each release that has significant new features/functionality, e.g., Calculator-related transactions.		Open
Create a plan for comprehensive performance testing and address any performance bottlenecks.		Open
Have the benchmark assessments done annually and implementation of Azure App Insights for Power Platform.		Open
Execute test scripts that measure the run-time for execution of long-running transactions. E.g., Calculator functionality/transactions and monitoring results over time.		Open



# IV&V Findings & Recommendations

## Project Management (cont'd)

#	Key Findings	Criticality Rating
42	<p><b>Medium Issue:</b> Lack of effective governance and communication among stakeholders can have significant negative impacts on a project in several ways.</p> <p><b>Finding update:</b> IV&amp;V is unaware of the progress towards mitigating this risk.</p>	
Recommendations		Status
<p><b>Create a Governance Structure:</b> Implement a governance structure that defines decision-making processes, escalation procedures, and accountability mechanisms. Clarify how decisions will be made, who has authority, and how issues will be resolved.</p>		Open
<p><b>Develop a Stakeholder Registry, RACI Matrix, and Stakeholder Engagement Plan:</b> Identify key stakeholders and develop a plan to engage them throughout the project lifecycle. Tailor communication strategies to address the needs and preferences of different stakeholders, ensuring their active involvement and support.</p>		Open
<p><b>Clearly Define Roles and Responsibilities:</b> Clearly outlining the roles and responsibilities of each stakeholder involved in the project, would ensure that everyone understands their duties and how they contribute to the project's success.</p>		Open





# IV&V Findings & Recommendations

## Project Management (cont'd)

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



# IV&V Findings & Recommendations


## Project Management (cont'd)

#	Key Findings	Criticality Rating
45	<p><b>Preliminary Concern:</b> The current process does not allow BHA to track actual costs versus budgeted costs by feature/functionality. The current invoices from the System Integrator (SI) vendor lack sufficient details that would allow BHA to track actual costs versus budgeted costs by, e.g., features such as Provider Portal, Maui Wildfire Communication, FHIR and Golden Record or by user story.</p> <p><b>Finding update:</b> During earlier discussions between BHA and IV&amp;V, DDD emphasized the importance of tracking costs for major functionalities like the Provider Portal and FHIR. In September 2024, IV&amp;V proposed options for cost tracking, including the use of Tags in Azure DevOps (ADO). BHA stakeholders suggested similar straightforward methods, aligning with IV&amp;V's recommendation. Since BHA is currently satisfied with the system integrator's (SI) adherence to the allocated budget for key functionalities, BHA does not consider this as a risk. However, BHA has raised significant concerns about Med-QUEST's ongoing inability to track federal financial participation allotments and its claims submission process, issues that have persisted since the project's inception. These deficiencies require considerable time to make corrections and may require additional funding. Despite previous assurances of procedural improvements, the problem remains unresolved.</p>	N/A



# IV&V Findings & Recommendations


## Project Management (cont'd)

#	Key Findings	Criticality Rating
46	<p><b>Medium Issue:</b> Neglecting the established defect management process could lead to lost/forgotten defects, user frustration, and could slow resolution of similar defects in the future.</p> <p><b>Finding Update:</b> In recent meetings with DDD and CAMHD, IV&amp;V discussed the issue of some defects reported to the Helpdesk via phone or other channels not being logged or addressed. DDD noted that staff find the process of logging such defects cumbersome. However, DDD leadership has emphasized that all defects must be logged. IV&amp;V and BHA to continue these discussions to determine process gaps and the next steps.</p>	
Recommendations		Status
<p>IV&amp;V recommends to:</p> <ol style="list-style-type: none"><li>1. Send communications to the project stakeholders to clarify the defect management process and the importance of logging all defects.</li><li>2. Take steps to assure current and new users understand how to report and/or log defects.</li><li>3. Consider designating a defect management lead or champion to oversee adherence to the process and assure all defects are logged.</li><li>4. Keep stakeholders informed about defect status, priority, impacts, and resolution timelines. This could increase awareness of the importance of logging defects.</li><li>5. Discuss ways to improve the defect logging and management process with the SI and come up with a plan to improve.</li></ol>		Open



# IV&V Findings & Recommendations

## Project Management (cont'd)

#	Key Findings	Criticality Rating
47	<p><b>Medium Issue:</b> The lack of a governance process for restarting production systems can impact service availability and frustrate end-users and hinder accountability.</p> <p><b>Finding Update:</b> No progress has been made for this reporting period.</p>	
Recommendations		Status
<p>IV&amp;V recommends BHA</p> <ol style="list-style-type: none"><li>1. Develop standard procedures for system restarts, including pre-checks, step-by-step instructions, and post-restart verifications.</li><li>2. Require formal approvals before initiating a restart, especially for INSPIRE, and document all actions in a centralized system.</li><li>3. Define clear escalation paths for when restarts do not go as planned, including identifying contacts for technical support and management approval for additional interventions.</li><li>4. Automate Restart Procedures where possible.</li><li>5. The governance process is established, it should be effectively communicated to the project team.</li><li>6. Provide stakeholders with a clear explanation of the reason for the restart and the lessons learned, while documenting the restart details in the defect record.</li></ol>		Open



# IV&V Findings & Recommendations


## Project Management (cont'd)

#	Key Findings	Criticality Rating
48	<p><b>Preliminary Concern:</b> Some AER project requirements are reliant on data provided by external partners (e.g., Dept. of Human Services (DHS)).</p> <p><b>Finding Update:</b> Med-QUEST corrected the data with the missing Uniform Billing (UB) Claims Forms data. The project is continuing the refinement of data and the machine learning (ML) model. Med-QUEST previously did not provide claims data regularly but will now begin providing it on a monthly basis.</p>	N/A



# 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> IV&amp;V remains concerned that limited BHA resources could create project delays and reduce system quality. BHA requested funding for additional project resources, however the request was not approved by the State. BHA plans to resubmit the request in next year's budget and will continue to look for other resource and funding options. IV&amp;V continues to recommend that the project streamline communications between BHA divisions in order to increase the productivity of project activities and decision-making.</p>	
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 backfill vacated project team member positions.		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 fill open project positions.		In Progress



# 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>November:</b> There were no deployments in November 2024.</p>	Velocity Metric Trends:					
			<table border="1"> <thead> <tr> <th>Release</th> <th>Planned velocity</th> <th>Actual velocity</th> <th>Percentage attained</th> </tr> </thead> <tbody> <tr> <td>R4.9</td> <td>111</td> <td>TBD</td> <td>TBD</td> </tr> </tbody> </table>	Release	Planned velocity	Actual velocity	Percentage attained	R4.9
Release	Planned velocity	Actual velocity	Percentage attained					
R4.9	111	TBD	TBD					

### 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 Deployment (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	TBD	TBD



# IV&V Findings & Recommendations

## Project Performance Metrics (cont'd.)

Metric	Description	.	IV&V Updates
<b>Defect Metrics</b>	Understand and track the following: <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>	<b>November</b> - There were no deployments in November 2024.	TBD

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
 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.



The background is a solid blue color. It features several abstract geometric shapes, including squares and rounded rectangles, in various shades of blue and white. Some shapes are solid, while others are outlined. They are scattered across the page, with a higher concentration on the left side. The text 'Appendix B: Inputs' is positioned in the lower-left quadrant.

# 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 August 2024 reporting period:

1. Daily Scrum Meetings
2. Daily Design Meetings
3. Twice Weekly RSM Issues Meeting
4. Weekly BHA-ITS Program Status Meeting
5. Bi-Weekly Check-in: CAMHD
6. Bi-Weekly Check-in: DDD
7. BHA (CAMHD & DDD) IV&V Joint Meeting
8. IV&V Draft IV&V Status Review Meeting with DOH
9. IV&V Draft IV&V Status Review Meeting with RSM and DOH
10. DOH BHA IT Solution Project – Steering Committee
11. US# Testing & Request Items
12. AER Analytics Bi-weekly Meeting

### Artifacts reviewed during the August 2024 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

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



Document



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# Appendix C: Project Trends

# Appendix C

## Project Trends

	February	March	April	May	June	July	August	September	October	November
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	12	11	12	13	13	12	12	14	14	14
Issue - high	12	0	0	0	0	0	0	0	0	0
Issue - medium	12	8	8	8	8	8	8	10	10	10
Issue - low	12	0	1	1	1	1	1	1	1	1
Risk - high	12	0	0	0	0	0	0	0	0	0
Risk - medium	12	2	2	2	2	2	2	2	2	2
Risk - low	12	0	0	0	0	0	0	0	0	0
Preliminary Concern	12	1	1	2	2	1	1	2	2	2



# 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
DDD	Developmental Disabilities Division
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







**Solutions that Matter**

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Type	Priority	Status	Closed Date	Identified Date	Owner
2	Regression testing	As a result of regression testing not being consistently performed, production releases are breaking existing functionality in the production environment.	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.	<p>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 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.</p> <p>2. A balanced approach that combines manual and automated regression testing to ensure broad test coverage and flexibility.</p> <p>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.</p> <p>4. IV&amp;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).</p> <p>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.</p> <p>6. IV&amp;V recommends DDD and CAMHD to develop a common and consistent approach across divisions for performing regression testing.</p> <p>7. Determine if current regression testing timeframes are adequate and if not, add more time to the pre-production regression test efforts for all</p>	<p>11/30/2024 - For the 3rd consecutive release (releases 4.7 through 4.9), regression testing is being done solely manually. Relying solely on manual regression testing without any automation could introduce risks and inefficiencies such as increased time and effort that may lead to delays, human error, inconsistencies as testing outcomes can vary depending on the individual tester, limited test coverage, risk of production defects since manual testing is prone to human error and the likelihood of defects slipping through to production increases, and the dependence on specific testers' expertise and knowledge. IV&amp;V recommends continuing investing in automated regression testing as it can improve efficiency and reduce the burden on BHA staff and ensure better product quality over time.</p> <p>10/31/24 - Automated regression test script (Tosca) issues have yet to be resolved, therefore, regression testing continues to be performed manually. The most recent release (R4.8) was manually tested and successfully deployed to production. CAMHD is currently re-recording the regression test scripts. DDD lacks the necessary resources to perform Tosca testing. DDD requested that IV&amp;V collaborate with DDD to create an assessment plan to evaluate Tosca testing.</p> <p>9/30/24 - Microsoft updated object properties in the Microsoft Dynamics application. According to Tricentis' research, the regression test scripts will need to be re-recorded to enable automated regression testing. As a result, the R4.8 regression testing, which began on 9/23/2024, is being conducted manually. Additionally, in a separate incident, a Microsoft fix related to a previously</p>	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.	<p>The project increases comprehensive testing prior to joint testing to reduce the burden on BHA testers and reduce post-production defects.</p> <p>The SI vendor add a "Found In" column to the daily scrum file to indicate the environment where each defect was identified.</p> <p>The SI vendor provides the total number of defects in production and reports these numbers regularly to BHA.</p> <p>Evaluate existing project staff skills and experience level to ensure they meet BHA support requirements.</p> <p>Perform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.</p> <p>Assign dedicated resources to provide oversight of CAMHD Fiscal Processes.</p> <p>Monitor implemented improvements for effectiveness.</p> <p>IV&amp;V recommends performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement.</p> <p>BHA and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase level of detail and quality.</p> <p>Perform typical project testing including System Integration, User Acceptance, Performance, and Regression Testing. Dedicate sufficient time in between releases for BHA and RSM to execute/implement RCA correction actions to reduce the volume of unplanned rework.</p>	<p>11/30/2024 - R4.9 is scheduled to be deployed to production on 12/5/2024. In the current production system, there exists 19 outstanding production defects (17 are classified as medium severity and 2 as high severity). These production defects arose despite testing at all levels. The SI has indicated that BHA prioritizes its work, which results in lower-priority defects remaining unresolved in favor of higher-priority tasks. The SI is making a concerted effort to report and fix these production defects as IV&amp;V and BHA remain concerned that code quality issues continue to impact the project, and users continue to be impacted by post-production bugs.</p> <p>10/31/24 - The deployment of R4.8 to production occurred on October 16, 2024, which was later than the originally planned date of October 3, 2024. This timeline shift was influenced by a Microsoft fix connected to a previous Behavioral Health Services Administration (BHA) ticket. This fix introduced critical issues in the Provider Portal during System Integration Testing (SIT), which led to a pause in manual regression testing. On October 24, 2024, the SI implemented a hotfix to address a medium-severity defect. There are 19 outstanding production defects (17 are classified as medium severity and 2 as high severity). These production defects arose despite testing at all levels, including unit, SIT, regression, and joint testing. IV&amp;V remains concerned that code quality issues continue to impact the project, and users continue to be impacted by post-production bugs.</p> <p>9/30/24 - The SI vendor deployed a fix for the Calculator defect related to deleting service details. Based on IV&amp;V's recommendation that the SI vendor provide the total</p>	Project Management	Issue	Medium	Open		9/30/2020	Gautam Gulvady

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Type	Priority	Status	Closed Date	Identified Date	Owner
31	Sprint Demos	Lack of regular Sprint Reviews and Sprint Demos will likely lead to misalignments between delivered work and stakeholder needs.	<p>Earlier in the project, end-of-sprint demos were conducted. Sprint reviews/demos help to bring alignment across the team and stakeholders. They are essential building blocks for better software and teams. Sprint demos/reviews showcase the main functionality to stakeholders and incorporate their feedback. Currently, the project has joint testing involving the SI and BHA personnel. Per Agile Best practices, IV&amp;V believes having Sprint demos/reviews during a sprint helps clarify and validate design prior to testing, steer the team in the right direction, and help to avoid big mistakes. This would also allow the testing team to focus solely on testing, which is beneficial.</p> <p>Based on Agile Best Practices, Sprint Demos or reviews occur during a sprint with the development team, scrum master, and product owner and gives all relevant stakeholders the opportunity to assess the completion of user stories, review important metrics and outcomes, and confirm if the Sprint goal has been achieved. This approach would also help prioritize and prepare the backlog for the next Sprint.</p> <p>Regular Sprint Reviews and demos strengthen the collaboration between development teams and stakeholders by enhancing communication channels and validating project objectives and ensuring that sprint deliverables remain consistent with stakeholder requirements.</p> <p>They are a great opportunity for the product owner, stakeholders, and the team to review what's being delivered and receive feedback. This way, the team can gauge responses and make observations earlier during development and not later during testing.</p> <p>Celebrating the team's accomplishments is also an essential</p>	<p>According to Agile Best Practices, IV&amp;V recommends including Sprint reviews and demos in future releases (R4.2 and onwards).</p> <ol style="list-style-type: none"> <li>At the end of each sprint, conduct a sprint review meeting to demonstrate the completed work to stakeholders and gather feedback. Use this feedback to refine and reprioritize the product backlog. For a 2-month sprint, IV&amp;V recommends having more than one (1) demo during the sprint.</li> <li>Create a stakeholder register to identify all stakeholders. List their identification, assessment, and classification. Review the register regularly to plan appropriate stakeholder engagement.</li> <li>Foster active participation from users and stakeholders during both Sprint Reviews and Sprint Demos. Emphasize the value of iterative feedback to guide development and ensure that user needs are consistently met.</li> <li>Establish standardized communication protocols for both Sprint Reviews and Sprint Demos. Encourage teams to deliver concise and informative progress reports, including achievements, challenges, and plans. This will enhance stakeholder engagement and project transparency.</li> <li>Institute a structured documentation process for both activities. Document key decisions, action items, and insights from each session to ensure accountability and to support ongoing process improvement.</li> </ol>	<p>11/30/24 - The project has indicated that sprint reviews and demos are conducted on an ad hoc basis, depending on the completion of features. There are no regular meetings scheduled for sprint reviews. Demos are typically performed informally, often through quick conversations or screen sharing, based on the priority and readiness of the features. This informal approach to demos may result in inconsistent feedback collection and delayed issue identification, which can negatively impact the overall effectiveness of the sprint. IV&amp;V recommends that the SI vendor establish regular sprint reviews and demos to ensure structured feedback, provide more visibility into all completed features, and improve team coordination.</p> <p>10/31/24 - The project has not yet established regular sprint demos and Sprint Reviews. While testing activities provide DOH with a preview of implemented functionality, IVV remains concerned that the absence of formal demos and Sprint Reviews may lead to misalignment between requirements and system design. IV&amp;V continues to recommend setting up a consistent cadence for Sprint Reviews and demos to validate whether stakeholder requirements have been effectively met, to gather Subject Matter Experts' (SMEs) feedback that can also be used to refine and reprioritize the product backlog. IV&amp;V recommends that the project involve IV&amp;V in Sprint Reviews to preview implemented functionality, track progress and to identify potential issues early on.</p> <p>9/30/24 - FHIR development and testing is currently on-going; BHA has seen some of the FHIR functionality during testing. The project is yet to have regular demos as part of Sprint Reviews. IV&amp;V's recommendation continues to be</p>	Sprint Planning	Risk	Medium	Open		7/26/2023	Gautam Gulvady
33	System performance	Performance bottlenecks with the INSPIRE production environment may result in low productivity and poor user experience.	<p>Performance issues have been identified that have the potential to impact the system's functionality, user experience, and the overall reliability of the system. These performance issues warrant immediate attention and resolution.</p> <p>The last performance test was executed in June 2023 for Phase 3 releases (R3.x). ~800+ new User Story Points (USPs) have been developed since the last performance test execution.</p> <p>Developmental Disability Division (DDD) personnel are encountering performance issues with re-assigning cases and opening the DDD - Contact Notes (Fiscal View - Complete) view. CAMHD has not reported performance issues.</p>	<p>IV&amp;V recommends: BHA execute a performance test during the development of R4.6 (planned completion 5/20/2024), identifying test cases and scenarios that include both DDD and CAMHD functionality, transactions/functionality that are performance intensive, e.g., calculator functionality</p> <ol style="list-style-type: none"> <li>Conduct load and performance testing for each release that has significant new features/functionality, e.g., calculator-related transactions.</li> <li>Create a plan for comprehensive performance testing and address any performance bottlenecks.</li> <li>Have the benchmark assessments done annually and implementation of Azure App Insights for Power Platform.</li> <li>Execute test scripts that measure the run-time for execution of long-running transactions. E.g., calculator functionality/transactions and monitoring results over time.</li> </ol>	<p>11/30/2024 - Due to BHA and Microsoft (MS) resourcing challenges, despite completing the CAMHD performance test earlier, the project decided to execute the test from the beginning for both DDD and CAMHD. MS has completed performance testing the CAMHD functionality and will conduct performance testing for the DDD-scoped items after the deployment of R4.9 to production. The estimated timeline for completion is 1-2 weeks.</p> <p>10/31/24 - Microsoft is continuing performance testing of the application and will provide the results/report upon completion. After discussions with a project stakeholder, it is agreed that when Microsoft provides the report, this report will be provided to the project team and IV&amp;V.</p> <p>9/30/24 - Performance testing was originally conducted from June 4 to June 12, 2024. However, the Developmental Disabilities Division (DDD) application was excluded from the testing scope due to the extensive size of its test script. The performance testing will include the DDD application as well. Microsoft reported that it is still testing the CAMHD and Portal applications. Once those tests are complete, testing of the DDD application will begin.</p> <p>8/31/2024 - BHA requested Microsoft to conduct Performance Tests which were executed from June 4th to June 12th, 2024. Stakeholders are currently awaiting Microsoft's performance test report. The Performance Test report should validate whether the INSPIRE system meets required performance standards and can effectively handle expected and peak loads.</p> <p>7/31/2024 - Microsoft executed the performance test</p>	Project Management	Issue	Medium	Open		8/18/2023	Gautam Gulvady

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Type	Priority	Status	Closed Date	Identified Date	Owner
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.	<ol style="list-style-type: none"> <li>1. DDD and CAMHD have further discussions to optimize resource utilization between the two divisions.</li> <li>2. BHA should explore options for offloading project team members' daily responsibilities to other staff.</li> <li>3. BHA should work quickly to backfill vacated project team member positions.</li> <li>4. 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.</li> <li>5. BHA should explore the use of contractors to fill open project positions.</li> </ol>	<p>11/30/24 - IV&amp;V remains concerned that limited BHA resources could create project delays and reduce system quality. BHA requested funding for additional project resources, however the request was not approved by the State. BHA plans to resubmit the request in next year's budget and will continue to look for other resource and funding options. IV&amp;V continues to recommend that the project streamline communications between BHA divisions in order to increase the productivity of project activities and decision-making.</p> <p>10/31/24 - IV&amp;V remains concerned that inadequate DOH resources may result in project delays and diminished system quality. IV&amp;V is continuing to recommend that the two divisions communicate directly to address their resourcing needs and optimize resourcing. DDD plans to engage new hires in additional project areas, including testing. IV&amp;V will continue to explore roles and tasks with BHA and make recommendations for staffing coverage.</p> <p>9/30/24 - BHA is in the process of acquiring new staff to strengthen Help Desk resources. IV&amp;V remains concerned that the ongoing resource shortage and the lack of new additions to the DDD team over the past five months will continue to adversely affect the project.</p> <p>8/31/2024 - The Business Analyst (BA) Position Description (PD) is under review. BHA is awaiting resolution of the Tosca (the automated testing tool) issue before adding an additional automated testing resource.</p> <p>7/31/2024 - DDD is finalizing the position description (PD) for the Business Analyst. BHA is finalizing contractual</p>	Resource Management	Issue	Medium	Open		8/18/2023	Michael Fors
39	Post-prod defects	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>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.azure.com/DOHBHA/DOH%20BHA%20INSPIRE/_workitems/edit/34886">https://dev.azure.com/DOHBHA/DOH%20BHA%20INSPIRE/_workitems/edit/34886</a>), what is in development and deployed is vastly different from what was deployed to production.</p> <p>The root cause for these errors is currently being investigated.</p> <p>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.</p>	<ol style="list-style-type: none"> <li>1. 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.</li> <li>2. Ensure there are adequate and qualified resources to support the current deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components.</li> <li>3. As appropriate, consult with RSM on best practices that BHA could employ to support deployment.</li> <li>4. Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with the consistency of configurations across environments, ensuring that the test environment is capable of testing ALL functions of any given release without the need for using multiple test environments.</li> <li>5. Request the assistance of the RSM Solution Architect in review of deployment scripts as a double check for accuracy and completeness prior to commencing deployment activities.</li> <li>6. The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.</li> <li>7. IV&amp;V recommends performing an RCA in collaboration with RSM for the continued concerns surrounding environment differences.</li> <li>8. IV&amp;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</li> </ol>	<p>11/30/2024 - The Root Cause Analysis (RCA) for the medium severity defect (for which a hot fix was deployed on 10/24/24) is still pending. There were no deployments in November 2024; R4.9 is scheduled to be deployed in December 2024. IV&amp;V will monitor the quality of the upcoming R4.9 deployment and MSDs.</p> <p>10/31/24 - R4.8 was deployed to production on 10/16/24, instead of 10/3/24. This delay was caused by a Microsoft (MS) fix related to a previously raised Behavioral Health Services Administration (BHA) ticket, which introduced critical issues in the Provider Portal in the System Integration Testing (SIT) and Test 2 environments, halting testing. The SI vendor's initiative to involve the team in a root cause analysis of the Microsoft fix shows a commitment to problem-solving. This collaboration aims to improve understanding, alignment, and resolution strategies, contributing to the project's success. The SI vendor deployed a hot fix for medium severity defect on 10/24/24; the Root Cause Analysis (RCA) for this defect is still pending. The project plans to deploy Fast Healthcare Interoperability Resources (FHIR) as a mid-sprint deployment (MSD). IV&amp;V is concerned about inconsistencies in the deployment processes, particularly due to the absence of a designated deployment lead. IV&amp;V will continue to monitor the quality of the R4.8 deployment and the upcoming MSD.</p> <p>9/30/24 - The SI vendor deployed a fix for the Calculator production defect related to the deletion of service details, with no other deployments in September 2024. The R4.8 Go Live was rescheduled from Thursday, 10/3/2024, to Monday, 10/7/2024. As of September 30, 2024, manual</p>	Release/Deployment Planning	Issue	Low	Open		1/25/2024	Gautam Gulvady

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Type	Priority	Status	Closed Date	Identified Date	Owner
40	Insufficient testing	Insufficient 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.	IV&V has requested an overview of the testing process, with a focus on process such as tracking test coverage and requirements traceability.  A Stakeholder Register helps identify and understand all project stakeholders, ensuring their needs are met and risks are managed through effective communication. A RACI clarifies roles and responsibilities, improving collaboration, decision-making, and resource management, which are all critical for the success of IT projects.  1. Identify stakeholders (output is stakeholder register) and develop a RACI matrix for testing.  2. Review the overall testing process and implement any needed improvements identified.	11/30/2024 - IV&V has identified specific testing areas to discuss with the appropriate project representatives to gain a deeper understanding of the INSPIRE testing process. DDD has agreed to facilitate the organization of these meetings.  10/31/24 - IV&V has requested a session to review test processes and will provide a list of suggested items to cover (for example, tracking test coverage and requirements traceability). The goal of this session is to identify opportunities to improve the testing process, as well as the reporting of test results and coverage.  9/30/24 - BHA and IV&V reviewed the RACI matrix, with IV&V providing feedback. BHA continues to refine and develop the RACI matrix to define the roles clearly and involve the right stakeholders for successful project outcomes. The SI vendor currently tracks test coverage manually using Excel worksheets, missing out on the capabilities of Azure DevOps for tracking test coverage and requirements traceability.  8/31/2024 - BHA and IV&V to review the RACI matrix and Stakeholder Register to involve the right stakeholders in the testing process for successful project outcomes. The Stakeholder Register and the RACI matrix could help to involve the right stakeholders in the testing process, leading to more successful project outcomes.  7/31/2024 - No new updates.  6/30/2024 - IV&V shared the Stakeholder Register and RACI templates (based on best practices) with BHA in May 2024.	Test Practice Validation	Issue	Medium	Open		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	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.  IVV 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).	11/30/24 - The DDD team has scheduled a meeting for this month (November) to review the product backlog. During this session, the team will assess the current backlog items, prioritize them according to business value and urgency, and ensure they align with the overall project goals. BHA plans to invite the IV&V team to participate in the backlog review meetings.  10/31/24 - It has been confirmed that CAMHD holds bi-weekly product backlog review meetings to review and adapt the product backlog. DDD communicated that they conduct collaborative reviews as needed and is yet to adopt regular dedicated product backlog review meetings. IV&V recommends that DDD establish regular product backlog review sessions to ensure consistent alignment with project goals and prioritize tasks effectively.  9/30/24 - IV&V continues to recommend the development and use of a RACI matrix to identify stakeholders who need to be involved in Sprint Reviews and product backlog reviews. BHA and IV&V reviewed the RACI matrix, with IV&V providing feedback. BHA continues to refine and develop the RACI matrix to clearly define the roles and involve the right stakeholders for successful project outcomes. IV&V will continue to discuss ways to use the RACI matrix in project work for product backlog reviews. CAMHD has indicated that they hold dedicated product backlog meetings, but IV&V has not yet been invited to attend or observe these sessions.  8/31/2024 - BHA has stated that before they change this process, they intend to utilize a RACI matrix to clearly define the roles. BHA and IV&V to review the RACI matrix	Sprint Planning	Risk	Medium	Open		1/26/2024	Gautam Gulvady

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Type	Priority	Status	Closed Date	Identified Date	Owner
42	Governance	Lack of effective governance and communication among stakeholders can have significant negative impacts on a project in several ways.	<p>Ineffective governance and communication among stakeholders can significantly impact a project in several ways, e.g., stakeholder disengagement, misunderstandings, conflict and tension, misalignment of objectives, increased risks, unclear roles and responsibilities, and quality issues. An example on this project is the development and implementation of Golden Record/Master Data Management (MDM).</p> <p>The lack of effective governance and communication among stakeholders can result in project delays, budget overruns, and decreased quality. It's essential for project managers and stakeholders to prioritize clear communication and establish robust governance structures to ensure project success.</p>	<p>IVV recommends considering the following recommendations to establish effective governance and communication among stakeholders:</p> <ol style="list-style-type: none"> <li>1. Create a Governance Structure: Implement a governance structure that defines decision-making processes, escalation procedures, and accountability mechanisms. Clarify how decisions will be made, who has authority, and how issues will be resolved.</li> <li>2. Develop a Stakeholder Registry, RACI chart, and Stakeholder Engagement Plan: Identify key stakeholders and develop a plan to engage them throughout the project lifecycle. Tailor communication strategies to address the needs and preferences of different stakeholders, ensuring their active involvement and support.</li> <li>3. Clearly define Roles and Responsibilities: clearly outlining the roles and responsibilities of each stakeholder involved in the project, would ensure that everyone understands their duties and how they contribute to the project's success.</li> <li>4. Encourage Open Communication and Feedback: Foster a culture of open communication and feedback where stakeholders feel comfortable sharing their thoughts, concerns, and suggestions. Encourage constructive dialogue and actively seek input to improve decision-making and problem-solving. Keep stakeholders informed about project progress, milestones, and key developments through regular updates and progress reports. Highlight achievements, challenges, and any changes to the project plan or scope.</li> <li>5. Resolve Conflicts Promptly: Address conflicts and disagreements among stakeholders promptly and professionally. Encourage dialogue, active listening, and compromise to find mutually acceptable solutions that support project goals.</li> <li>6. Manage Expectations: Manage stakeholders' expectations by setting</li> </ol>	<p>11/30/24 - IV&amp;V is unaware of the progress towards mitigating this risk.</p> <p>10/31/24 - The lack of productive communication between DDD and CAMHD could lead to misunderstandings, confusion, unclear project priorities, and ultimately project delays. BHA is considering developing a documented governance process for restarting production systems. The project is considering various options for tracking cost of features that require a significant level of effort (project refers to these as "Big Rock" features).</p> <p>9/30/24 - There remain some communication challenges between stakeholders on project aspects such as defect tracking and reporting, and tracking and monitoring costs related to Big Rock functionalities. IV&amp;V recommends project teams maintain collaboration and information sharing across stakeholder groups to ensure shared understanding in key project areas.</p> <p>8/31/2024 - There remain some communication challenges between stakeholders on project aspects such as defect tracking and reporting, and tracking and monitoring costs related to Big Rock functionalities. IV&amp;V recommends project teams maintain collaboration and information sharing across stakeholder groups to ensure shared understanding in key project areas.</p> <p>7/31/2024 - The divisions continue to collaborate on the security assessment exercise. The draft security assessment report is due in October 2024.</p>	Project Management	Issue	Medium	Open		2/29/2024	Gautam Gulvady
43	System performance	Execution time for the process for updating DDD SharePoint folders was unacceptable.	<p>The existing DDD SharePoint documents and folders update process is intensive and the execution time was unacceptable - this process took 11 calendar days to execute in production with R4.4.</p> <p>This process is part of several intense processes that update SharePoint documents and folders. The SI vendor recommended against doing this intensive process. However, no feasible alternative solutions were provided and this process was implemented.</p> <p>BHA has the flexibility to refine and alter their SharePoint directory structure. As a result, per the SI vendor, the process does not pick up continuously evolving permutations of folder structures in Production, nor can the execution time be estimated or benchmarked. Per discussions between the SI vendor and BHA over many months, this process was not going to complete 100% of the operations because of the different folder structures in Production. And this process/jobs has been updated many times to address different folder structures that were captured during testing, but there is no guarantee that it covers every possible scenario - some operations failed because the folder structure was not encountered during testing, which was an expected event. The folders in Production that were not picked up with Flow were supposed to be manually updated.</p> <p>The current solution utilizing Power Automate provided the necessary steps to automate this process, but it was never going to capture 100% of folders. And the process took 11 calendar days to execute in production.</p>	<p>IV&amp;V recommends doing an impact analysis, e.g., downstream impact.</p> <p>IV&amp;V recommends DDD puts on hold any development utilizing Power Automate for the performance issue encountered in production (marked "TBD" in finding #14 related to "SharePoint Bulk Flows still running"). related user stores, e.g., "Changes to DDD folders", and defects.</p> <p>IV&amp;V recommends evaluating other feasible options, e.g., leveraging SharePoint tools and best practices.</p> <p>A project issue should be opened to identify and manage the resolution of this issue.</p>	<p>11/30/2024 - BHA plans to launch an initiative to digitize approximately 2.5 million paper documents as part of a broader effort to transition to a paperless system. While the SI has been working on enhancing the existing process which previously required around 15 days to complete, the current SharePoint site cannot accommodate the anticipated volume without a redesign of the SharePoint hierarchy. Considering the low frequency of the process (only once or twice per year) and the challenges posed by the SharePoint limitations, DDD has decided to pause further development on these improvements. However, if DDD encounters difficulties in executing the existing process, it will reevaluate the need for these enhancements.</p> <p>10/31/24 - Development of the design improvements to create and rename folders for all existing customers in their SharePoint subsite will begin as higher priority user stories have been completed and a SharePoint resource becomes available. The new design will utilize PowerShell scripts, which are expected to be more efficient than the previously used Power Automate solution, which had slower-than-anticipated processing times.</p> <p>9/30/24 - The development of the improvements will commence once a SharePoint resource is available.</p> <p>8/31/2024 - The SI vendor has completed the design and stated that development of the improvements will commence once a SharePoint resource is available.</p> <p>7/31/2024 - The SI vendor and BHA finalized the Business Requirements Document (BRD). A new User Story has been</p>	Release/Deployment Planning	Issue	Medium	Open		4/30/2024	Gautam Gulvady

ID	Short Description	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Type	Priority	Status	Closed Date	Identified Date	Owner
45	Cost tracking for big rocks	The current process does not allow BHA to track actual costs versus budgeted costs by feature/functionality.  The current invoices from the System Integrator (SI) vendor lack sufficient details that would allow BHA to track actual costs versus budgeted costs by, e.g., features such as Provider Portal, Maui Wildfire Communication, FHIR and Golden Record or by user story.	The current process does not allow BHA to track actual costs versus budgeted costs of large functionality such as Provider Portal, Maui Wildfire Communication, Fast Health Interoperability Resources (FHIR) or the Golden Record (GR). The absence of a clear process doesn't give insight into, e.g., how much of the budget has gone into developing functionality such as Provider Portal, Maui Wildfire Communication, FHIR or GR functionality.  By incorporating a clear process that would allow BHA to monitor costs of large functionality, BHA can maintain better financial records and it would allow BHA to track actual versus budgeted costs and answer questions, e.g., "how much money has been spent on developing Provider Portal, Maui Wildfire Communication, FHIR or Golden Record (GR) functionality?"		11/30/2024 - During earlier discussions between BHA and IV&V, DDD emphasized the importance of tracking costs for major functionalities like the Provider Portal and FHIR. In September 2024, IV&V proposed options for cost tracking, including the use of Tags in Azure DevOps (ADO). BHA stakeholders suggested similar straightforward methods, aligning with IV&V's recommendation. Since BHA is currently satisfied with the system integrator's (SI) adherence to the allocated budget for key functionalities, BHA does not consider this as a risk. However, BHA has raised significant concerns about Med-QUEST's ongoing inability to track federal financial participation allotments and its claims submission process, issues that have persisted since the project's inception. These deficiencies require considerable time to make corrections and may require additional funding. Despite previous assurances of procedural improvements, the problem remains unresolved.  10/31/24 - Discussions about the options are ongoing. These options also enable tracking the allocation of a release's fixed number of User Story Points (USPs) across various categories or buckets by utilizing tags in Azure DevOps (ADO). IV&V is concerned that the extensive use of USPs to implement large-scale functionalities, such as FHIR, may result in the removal or reduction of planned features, which could impact system effectiveness, lower user engagement, and fall short of anticipated feature expectations. IV&V will continue to make recommendations regarding tracking key items in this area to support the project.  9/30/24 - IV&V has provided options allowing BHA to track	Project Management	Preliminary Concern		Open		5/25/2024	Gautam Gulvady
46	Defect management.	Neglecting the established defect management process could lead to lost/forgotten defects, user frustration, and could slow resolution of similar defects in the future.		IV&V recommends to: 1. Send communications to the project stakeholders to clarify the defect management process and the importance of logging all defects. 2. Take steps to assure current and new users understand how to report and/or log defects. 3. Consider designating a defect management lead or champion to oversee adherence to the process and assure all defects are logged. 4. Keep stakeholders informed about defect status, priority, impacts, and resolution timelines. This could increase awareness of the importance of logging defects. 5. Discuss ways to improve the defect logging and management process with the SI and come up with a plan to improve.	11/30/2024 - In recent meetings with DDD and CAMHD, IV&V discussed the issue of some defects reported to the Helpdesk via phone or other channels not being logged or addressed. DDD noted that staff find the process of logging such defects cumbersome. However, DDD leadership has emphasized that all defects must be logged. IV&V and BHA to continue these discussions to determine process gaps and the next steps.  10/31/24 - DOH leadership continues to express concerns that not all defects are being logged.	Project Management	Issue	Medium	Open		9/30/2024	Gautam Gulvady
47	Production restarts.	The lack of a governance process for restarting production systems can impact service availability and frustrate end-users and hinder accountability.		IV&V recommends BHA 1. Develop standard procedures for system restarts, including pre-checks, step-by-step instructions, and post-restart verifications. 2. Require formal approvals before initiating a restart, especially for INSPIRE, and document all actions in a centralized system. 3. Define clear escalation paths for when restarts do not go as planned, including identifying contacts for technical support and management approval for additional interventions. 4. Automate Restart Procedures where possible. 5. The governance process is established, it should be effectively communicated to the project team. 6. Provide stakeholders with a clear explanation of the reason for the restart and the lessons learned, while documenting the restart details in the defect record.	11/30/24 - No progress has been made for this reporting period.  10/31/24 - BHA is considering developing a documented governance process for restarting production systems.	Project Management	Issue	Medium	Open		9/30/2024	Gautam Gulvady
48	Data from external partners	Some AER project requirements are reliant on data provided by external partners (e.g., Dept. of Human Services (DHS)).	Delays in the delivery of this data could lead to project delays and potentially increased costs.		11/30/2024 - Med-QUEST corrected the data with the missing Uniform Billing (UB) Claims Forms data. The project is continuing the refinement of data and the machine learning (ML) model. Med-QUEST previously did not provide claims data regularly but will now begin providing it on a monthly basis.  10/31/24 - Med-QUEST provided historical claims for 2021, 2022, 2023 and some 2024 claims files on 10/16/2024. The SI vendor identified some missing data (UB Claims forms for hospital stays) and has made corrections to the missing data. DDD is in the process of validating that the corrections are reliable. Access to recent monthly claims data was not provided as originally planned, which has impacted the project timeline. As a result, the go-live date has been adjusted from January 2025 to February 2025. The SI vendor has provided an updated tentative timeline.	Project Management	Preliminary Concern		Open		9/30/2024	Gautam Gulvady

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