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April 15, 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 Scott K. Saiki 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 Saiki, 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 <u>http://ets.hawaii.gov</u> (see "Reports").

Sincerely,

Douglas Murdock 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 March 1 – March 31, 2024

Submitted: April 12, 2024



Solutions that Matter

Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





R4.5 regression testing was completed successfully. R4.5 was deployed to production on 3/28/24, and smoke testing in production is planned for completion on 4/1/24. As of the March reporting period, the Tricentis regression testing tool coaching sessions have been completed. IV&V will continue to monitor and review automated regression testing results and status reporting. R4.5 regression testing was a combination of automated and manual testing and was completed successfully. R4.6 regression testing is also expected to be a combination of manual and automated regression testing.

Three (3) (severity: 2 critical, 1 medium) of six (6) R4.4 post-production bugs have been fixed and tested (in development and test environments), and the fixes were deployed to production with R4.5. Four (4) of these bugs are deployment-related. IV&V will monitor the progress and quality of the R4.5 deployment.

CAMHD and DDD Stakeholders continued to meet in March 2024 to clarify open questions and next steps regarding future GR development and potential 3rd-party tool integration. One GR user story was implemented in R4.5, and no further GR features will be developed. The finding (#32) was closed during this reporting period.

The Fast Healthcare Interoperability Resources (FHIR) project is continuing to progress. The System Integrator (SI) vendor and Microsoft (MS) are currently testing with Apple Health.

| Jan | Feb | Mar | Category | IV&V Observations |
|-----|-----|-----|-------------------------------|---|
| 8 | 3 | Y | Sprint Planning | As of the March reporting period, BHA plans to schedule separate product backlog review meetings. Previously, these meetings were conducted during the design meetings and weekly issues meetings. Discussions regarding new functionality/features in R4.6 that would warrant demonstration are ongoing. Accordingly, as part of Sprint Reviews, the vendor should schedule demonstrations of new functionality/features. |
| G | G | G | User Story (US) Validation | There are no active findings in the User Story (US) Validation category which remains Green (low criticality) for the March reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods. |



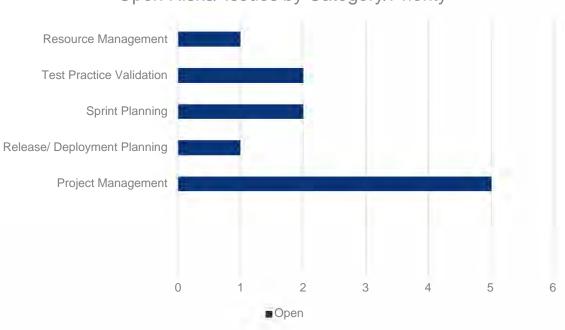
| Jan | IN Feb Mar Category IV&V Observations | | IV&V Observations | |
|-----|---------------------------------------|--|-------------------------------------|--|
| R | × | Y | Test Practice Validation | As of the March reporting period, the Tricentis regression testing tool coaching sessions have been completed. IV&V will continue to monitor and review automated regression testing results and status reporting. As an additional R4.4 post-production bug has been identified, the efficacy of regression testing should be evaluated. R4.5 regression testing was a combination of automated and manual testing and was completed successfully. R4.6 regression testing is also expected to be a combination of manual and automated regression testing. |
| | | | | CAMHD is populating the stakeholder registry and the RACI matrix to address adequate statewide participation and engagement in the testing process. |
| R | R | Y | Release / Deployment Planning | R4.5 regression testing was completed successfully. R4.5 was deployed to Production on 3/28/24, and smoke testing in production is planned for completion on 4/1/24. Three (3) (severity: 2 critical, 1 medium) of six (6) R4.4 post-production bugs have been fixed and tested (in development and test environments), and the fixes were deployed to production with R4.5; four of these bugs are deployment related, three fixes have been deployed. IV&V will monitor the progress and quality of the R4.5 deployment. |
| G | G | OJT and KT This category remains Green (low criticality) for the March reporting period with n | | This category remains Green (low criticality) for the March reporting period with no active findings. |
| G | G | G | Targeted KT | This category remains Green (low criticality) for the March reporting period. IV&V will continue to monitor. |



| Jan | Feb | Mar | Category | IV&V Observations |
|-----|-----|--|---|---|
| G | G | G | Project Performance Metrics | There are no project performance metrics to report for this reporting period. IV&V will keep the criticality rating for this category a Green (low criticality) and will continue monitoring this category. |
| G | G | G | Organizational Maturity Assessment (OMA) | This category remains Green for the March reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor. |
| R | R | system's functionality, reliability, and user experience. BHA and the SI vendor having discussions to define the scope and schedule and to estimate the effor cost to conduct a performance test prior to R4.6 implementation on 5/30/24. is to execute the test in May 2024. BHA plans to leverage the existing Health Information Systems Office (HISO) contract with Microsoft to conduct the | Performance issues were identified in 2023 that could have a potential impact to the system's functionality, reliability, and user experience. BHA and the SI vendor are having discussions to define the scope and schedule and to estimate the effort and cost to conduct a performance test prior to R4.6 implementation on 5/30/24. The plan is to execute the test in May 2024. BHA plans to leverage the existing Health Information Systems Office (HISO) contract with Microsoft to conduct the performance test. | |
| - | | • | Management | CAMHD and DDD Stakeholders continued to meet in March 2024 to clarify open questions regarding future GR development and potential 3rd-party tool integration. One GR user story was implemented in R4.5, and no further GR features will be developed. The related finding, #32), was closed during this reporting period. |
| | | | | The Data Exchange Agreement (DEA) between DDD and MQD is yet to be executed. The Analytics project will commence once the DEA is executed. |
| R | R | Y | Resource Management | As an update to Finding #34, DDD plans to request one (1) business analyst position to address resource shortages. |



As of the March 2024 reporting period, eleven open findings were updated, and one finding was closed – eight (8) Medium Issues, two (2) Medium Risks, and one (1) Preliminary Concern spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, and Project Management and Resource Management assessment areas are currently open.



Open Risks/ Issues by Category/Priority



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 | Medium Risk: Lack of regular Sprint reviews and sprint demos will likely lead to misalignments between delivered work and stakeholder needs. Finding Update: Discussions regarding new functionality/features in R4.6 that would warrant demonstration are ongoing. Accordingly, the vendor should schedule demonstrations of new functionality/features as part of Sprint Reviews. | M |
| Reco | ommendations | Status |
| (R me en pre | cording to Agile Best Practices, IV&V recommends including Sprint reviews and demos in future releases 4.2 and onwards) with all relevant stakeholders to assess the completion of user stories, review important etrics and outcomes, and confirm if the Sprint goal has been achieved. This approach would also help sure the backlog is prioritized and well-prepared for the next Sprint. These are some recommendations for oject alignment, stakeholder engagement, quality assurance, transparency, and the incorporation of user edback. | In Progress |
| ch | rengthen the collaboration between development teams and stakeholders by enhancing communication annels. Regularly validate project objectives and ensure that sprint deliverables remain consistent with akeholder requirements | In Progress |
| | ster active participation from users and stakeholders during both Sprint Reviews and Sprint Demos. nphasize the value of iterative feedback to guide development and ensure that user needs are consistently et. | Open |



IV&V Findings & Recommendations Sprint Planning (cont'd)

| R | ecommendations | 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 future plans. This will enhance stakeholder engagement and project transparency. | In Progress |
| • | Create a stakeholder register to identify all stakeholders. List their identification, assessment, and classification. Review the register regularly to plan appropriate stakeholder engagement. | In Progress |
| • | 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. | Open |

IV&V Findings & Recommendations Sprint Planning (cont'd)

| # | Key Findings | Criticality Rating |
|-------------|--|-----------------------|
| 41 | Medium Risk: Absence of separate dedicated product backlog review meetings can pose several challenges for a project team Finding Update: BHA to schedule separate product backlog review meetings. | M |
| Recor | nmendations | Status |
| oru | parate dedicated product backlog review meetings (during sprints) would allow clarifying any ambiguities incertainties, re-prioritization, estimation and refinement of backlog items. This would allow the project m to avoid situations where decisions about including items Mid-sprint would have to be taken. | Open |
| rele suc | recommends scheduling separate dedicated product backlog review meetings (during sprints) where all evant stakeholders are invited to review the product backlog and scheduled at the appropriate time(s) h that there is sufficient time to plan the design, development, and implementation (DDI) of the next base(s). | Open |



IV&V Findings & Recommendations Test Practice Validation

| # | Key Findings | Criticality Rating |
|---|--|-----------------------|
| 2 | Medium Issue: As a result of automated regression testing not being comprehensively performed, production releases are breaking and/or deprecating existing functionality in the production environment. Finding Update: R4.5 regression testing was a combination of automated and manual testing and was completed successfully. The Tricentis regression testing tool coaching sessions have been completed. IV&V will continue to monitor and review automated regression testing results and status reporting. As an additional R4.4 post-production bug has been identified, the efficacy of regression testing should be evaluated. Minimal progress has been made in developing and executing automated regression test cases. BHA is planning the upgrade of the Tricentis automated regression testing tool, Tosca 2021 version to the 2023 version. R4.6 regression testing will also be a combination of manual and automated regression testing. | M |
| | | |
| Recor | nmendations | Status |
| • Hav | mmendations ving board(s) in Azure DevOps or a document on SharePoint that provides information about the status of ression testing automation, to facilitate visibility and transparency to BHA project personnel and keholders. | Status In Progress |
| Havreg stal Sch will | ving board(s) in Azure DevOps or a document on SharePoint that provides information about the status of ression testing automation, to facilitate visibility and transparency to BHA project personnel and | _ |



IV&V Findings & Recommendations Test Practice Validation (cont'd)

| Recommendations | Status |
|---|-------------|
| • 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 | Medium Issue: Improvements to the testing process are needed to ensure adequate CAMHD participation and comprehensive testing of functionality prior to production deployment. Finding Update: CAMHD is populating the stakeholder registry and the RACI matrix to address adequate statewide participation and engagement in the testing process. | M |
| Recor | nmendations | Status |
| • Ide | ntify stakeholders (output is stakeholder register) and develop a RACI matrix for testing. | In Progress |
| • Re | view the overall testing process and implement any needed improvements identified. | Open |

IV&V Findings & Recommendations Release / Deployment Planning

| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| 32 | Closed Medium Issue: Golden Record (GR) project delays are likely to delay the implementation of future features and functionality. Finding Update: CAMHD and DDD Stakeholders continued to meet in March 2024 to clarify open questions regarding future GR development and potential 3rd-party tool integration. One GR user story was implemented in R4.5, and no further GR development will be conducted. Finding closed. | M |
| Re | commendations | Status |
| • | Identify stakeholders (output is stakeholder register) and develop a RACI matrix for the project to ensure adequate communication and stakeholder participation. | Open |
| • | Identify the objective of implementing GR production data use, benefits, current gaps in design, effort estimates, resource commitments, and impact of having/not having GR. | In Progress |
| • | Prior to implementation of the GR production data use, needed updates to the consent form should be confirmed and completed, policies/procedures for all users should be confirmed, and all open defects should be resolved. | In Progress |
| • | Analyze the impact on the future functionalities and assess the implications if this strategic change is needed. | In Progress |
| • | GR working sessions should be resumed until there is clarity on remaining work to be completed, timeline for completion, etc. | Open |



IV&V Findings & Recommendations Release / Deployment Planning (cont'd)

| # | Key Findings | Criticality Rating |
|-----|--|-----------------------|
| 39 | Medium Issue: Due to ongoing deployment processes and technical execution issues, the Project may continue to encounter defects and challenges, e.g., when releases are in production or in meeting projected timelines for production and non-production deployments. Finding Update: Three (3) (severity: 2 critical, 1 medium) of six (6) R4.4 post-production bugs have been fixed and tested (in development and test environments), and the fixes were deployed to production with R4.5. Four (4) of these bugs are deployment-related. R4.5 was deployed to Production on 3/28/24, and smoke testing in Production is scheduled for 4/1/24. IV&V will monitor the progress and quality of the R4.5 deployment. | M |
| Red | commendations | Status |
| f | The Project should consider automating deployments for resource savings, increased efficiency, consistency, faster time to market, improved collaboration and reliability, scalability, version control integration, and rollback capability. | Open |
| r | 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. | Open |
| • / | As appropriate, consult with RSM on best practices that BHA could employ to support deployment. | Open |
| C | 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 the standard and the standard and the standard across environments. | Open |



IV&V Findings & Recommendations Release / Deployment Planning (cont'd)

| Recommendations | Status |
|---|--------|
| Request the assistance of the RSM Solution Architect in the review of deployment scripts as a double-check for accuracy and completeness prior to 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 an 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 |



| # | Key Findings | Criticality Rating |
|-------|--|-----------------------|
| 14 | Medium Issue: Due to multiple quality concerns, the Project may continue to face impactful system defects. Finding Update: R4.5 regression testing was completed successfully. R4.5 was deployed to Production on 3/28/24, and smoke testing in production is planned for completion on 4/1/24. Three (3) (2 critical, 1 medium) of six (6) R4.4 post-production bugs (severity: 2 critical, 2 high, 1 medium, 1 TBD) have been fixed and tested (in the development and test environments) and fixes deployed to production in R4.5. IV&V will monitor the progress and quality of R4.5. | M |
| Reco | nmendations | Status |
| • Eva | aluate existing project staff skills and experience level to ensure they meet BHA support requirements. | In Progress |
| | form CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as ected. | In Progress |
| • Ass | sign dedicated resources to provide oversight and monitoring of CAMHD Fiscal Processes | Open |
| • Mo | nitor implemented IV&V recommendations for effectiveness. | In Progress |



| # | Key Findings | Criticality Rating |
|--------------|---|-----------------------|
| 33 | Medium Issue: Performance bottlenecks with the INSPIRE production environment may result in low productivity and poor user experience. Finding Update: To address the IV&V recommendation #1, BHA and the SI vendor are having discussions to define scope, schedule, and to estimate the effort and cost to conduct a performance test prior to R4.6 implementation on 5/30/24. The plan is to execute the test in May 2024. BHA plans to leverage the existing Health Information Systems Office (HISO) contract with Microsoft to conduct the performance test. | M |
| Rec | ommendations | Status |
| (I p s | The last performance test was executed in June 2023 for phase 3 releases (R3.x). ~800+ new User Story Points JSPs) have been developed since the last performance test execution. IV&V recommends BHA execute a erformance test during the development of R4.6 (planned completion 5/20/2024), identifying test cases and cenarios that include both DDD and CAMHD functionality, transactions/functionality that are performance intensive, e.g., calculator functionality. | Open |
| • 0 | Conduct load and performance testing for each release with significant new features/functionality. | Open |
| • 0 | create a plan for comprehensive performance testing and address any performance bottlenecks. | Open |
| • + | lave 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 unctionality/transactions and monitoring results over time. | New |



| # | Key Findings | Criticality Rating |
|-----|---|-----------------------|
| | Preliminary Concern: Lack of an ongoing cleanup process may lead to clutter and reduce Azure DevOps effectiveness in supporting the INSPIRE project management and tracking needs. | |
| 35 | Finding Update: Standardizing (ongoing process) tags used in Azure DevOps and cleaning up the Azure DevOps environment is an ongoing process. E.g., some post-production bugs are tagged "Post Go-Live Bug" with tags for the appropriate release(s). IV&V will monitor the progress. | N/A |
| Rec | ommendations | Status |
| S | evOps cleanup is an ongoing process. The usage and configuration of the Azure DevOps (AD) environment hould be regularly monitored to prevent clutter and maintain its effectiveness in supporting the INSPIRE roject management and tracking needs. | In Progress |
| | configuration Review: Evaluate the Azure DevOps (AD) configuration settings. Ensure workflows, issue opes, custom fields, and other settings are aligned with the project's needs and industry best practices. | In Progress |
| a | Optimize Boards and Filters: Review the boards, filters, and tags in Azure DevOps (AD) to ensure they ccurately reflect the status of work, and they are designed to facilitate efficient tracking and collaboration. his will help streamline and make it easier to find relevant information. | In Progress |
| | ser Training and Best Practices: Provide training to Azure DevOps (AD) users to ensure they are using the pol effectively. Share best practices for issue creation, workflow management, and collaboration. | Open |
| | stablish a plan for regular maintenance of Azure DevOps (AD). Regularly review and clean up old issues, djust workflows as needed, and ensure that configurations remain aligned with evolving needs. | Open |



| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| 36 | Medium Issue: Lack of a comprehensive project schedule could lead to missed tasks, project delays, and cost overruns. Finding Update: The Data Exchange Agreement (DEA) between DDD and MQD is yet to be executed. The Analytics project will commence once the DEA is executed. | M |
| De | | Ctatura |
| Re | commendations | Status |
| | Establish a clear project schedule management plan that outlines roles, responsibilities, and accountability for schedule adherence. | Open |
| | Create and baseline a comprehensive project schedule for Phase 4 and future project phases in MS Project, Smartsheet, or a similar tool, containing tasks for both SI vendor and State, task dependencies, and resourcing. | Open |
| • | Implement regular schedule reviews and updates to ensure alignment with project objectives and milestones. | Open |



| # | Key Findings | Criticality Rating |
|-----|---|-----------------------|
| 42 | Medium Issue: Ineffective governance and communication among stakeholders can significantly impact a project in several ways, e.g., stakeholder disengagement, 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). 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. | M |
| | Finding update: Division heads from three (3) divisions, the Developmental Disabilities Division (DDD), Child & Adolescent Mental Health Division (CAMHD), and Alcohol & Drug Abuse Division (ADAD), met in March 2024 to discuss and resolve Golden Record-related issues. DDD has added a Policy & Procedures- related agenda item to the monthly DOH BHA IT Solution Project Steering Committee meetings. | |
| Red | commendations | Status |
| e | Create a Governance Structure: Implement a governance structure that defines decision-making processes, escalation procedures, and accountability mechanisms. Clarify how decisions will be made, who has authority, and how issues will be resolved. | Open |
| 6 | 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. | Open |
| i | Clearly define Roles and Responsibilities: clearly outlining the roles and responsibilities of each stakeholder nvolved in the project, would ensure that everyone understands their duties and how they contribute to the project's success. | Open |



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



IV&V Findings & Recommendations Resource Management

| # | Key Findings | Criticality Rating |
|-----|---|-----------------------|
| 34 | Medium Issue: A shortage of Behavioral Health Administration (BHA) project resources could lead to reduced productivity and project delays. Finding Update: No change since the February reporting period. | M |
| Red | commendations | Status |
| • E | 3HA should explore options for offloading project team members' daily responsibilities to other staff. | In Progress |
| • E | 3HA should work quickly to backfill vacated project team member positions. | Open |
| | 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. | Open |
| • E | 3HA should explore the use of contractors to fill open project positions. | Open |



IV&V Findings & Recommendations Project Performance Metrics

| Metric | Description | IV&V Observations | | IV&V (| Jpdates | |
|----------|--|---|----------|---------------------|--------------------|------------------------|
| | | | Velocity | Metric Trer | nds: | |
| | Review and validate | | Release | Planned Velocity | Actual Velocity | Percentage Attained |
| Velocity | the velocity data asreported by theprojectVerify the project is | March – Velocity was estimated at 95 USPs for R4.5, 76 R4.5 USPs were promoted to production on 3/28/24. | R4.5 | 95 | 76 | 80% |
| | on pace to hit the total target number of US/USP | | | | | |



IV&V Findings & Recommendations Project Performance Metrics (cont'd.)

| Metric | Description | | IV&V Updates |
|----------------|--|---|--|
| Defect Metrics | Understand and track the following: Defects by category (bug fixes) USPs assigned to defects in a release vs. USPs assigned to planned US in a release | March - Velocity was estimated at 95 USPs for R4.5, 76 R4.5. USPs were promoted to production on 3/28/24. 83% of the USPs were associated with user stories and requests. 17%* of the total USPs were associated with defects encountered during the release effort or pulled from the backlog. | The defect percentage for March was 17%* which is under the target range of 20% or less of all USPs promoted to production. |

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



Appendix A: IV&V Rating Scales

Appendix A IV&V Rating Scales

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

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

The assessment category is under control and the current scope can be delivered within the current schedule. The assessment category's risks and issues have been identified, and mitigation activities are effective. The overall impact of risk and issues is minimal. The assessment category is proceeding according to plan (< 30 days late).

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

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

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

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

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

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

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



(Y)

R

Appendix A Finding Criticality Ratings

| Criticality Rating | Definition |
|-----------------------|--|
| 0 | 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. |
| .0 | 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 March 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. IV&V Draft IV&V Status Review Meeting with DOH
- IV&V Draft IV&V Status Review Meeting with RSM and DOH
- 9. DOH BHA IT Solution Project Steering Committee
- 10. Joint meeting with DDD and CAMHD

Eclipse IV&V[®] Base Standards and Checklists

Artifacts reviewed during the March 2024 reporting period:

- 1. Daily Scrum Notes
- 2. Twice Weekly Issues Meeting Notes
- 3. Weekly BHA-ITS Program Status Report





Appendix C: Project Trends

Appendix C Project Trends

| Process Area | | | | | | | | | | |
|-------------------------------------|-----|---|--------|-----------|---------|----------|----------|---------|----------|-------|
| HOLESS AIEa | Jun | | August | September | October | November | December | January | February | March |
| 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 | 4 | 5 | 11 | 11 | 11 | 10 | 10 | 11 | 12 | 11 |
| Issue - high | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 5 | 12 | 0 |
| Issue - medium | 4 | 3 | 5 | 5 | 5 | 4 | 4 | 4 | 12 | 8 |
| Issue - low | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 |
| Risk - high | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 12 | 0 |
| Risk - medium | 0 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | 12 | 2 |
| Risk - low | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 |
| Preliminary Concern | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 12 | 1 |





Solutions that Matter

| ID | Finding | Finding Statement | Analysis and Significance | Recommendation | Finding Update | Category | Туре | Priority | Status | Closed Date | Identified Date | Owner | |
|----|--|---|---|---|--|---------------------|-------|----------|--------|-------------|-----------------|---------|--|
| | | | | | | | | | | | | | |
| 2 | As a result of regression testing not being | R3.3 introduced a defect that deprecated features in | Thorough vetting and validation of regression test cases are | 1. Having board(s) in Azure DevOps or a document or | | Test Practice | Issue | Medium | Open | | 12/31/2019 | Gautam | |
| | consistently performed, production releases | production specific to Integrated Support and Life Trajectory | necessary to prevent both defects and the deprecation of | SharePoint that provides information about the | combination of automated and manual testing | Validation | | | | | | Gulvady | |
| | are breaking and/or deprecating existing | functionality. DDD has informed IV&V that there are other | production functionality when a release is pushed live. When | status of regression testing automation, to facilitate | and was completed successfully. The Tricentis | | | | | | | | |
| | functionality in the production environment. | examples of functionality being deprecated after a release, | defects occur in production, the project should follow a defined | visibility and transparency to BHA project personnel | regression testing tool coaching sessions have | | | | | | | | |
| | | some of which are still being investigated. As of this report, | and repeatable process for determining the root cause of the | and stakeholders. | been completed. IV&V will continue to monitor | | | | | | | | |
| | | IV&V has not evaluated the project's root cause analysis (RCA) | problem. | | and review automated regression testing results | | | | | | | | |
| | | process used to determine why such functionality was | | 2. IV&V recommends reevaluating the schedule | and status reporting. As an additional R4.4 post- | | | | | | | | |
| | | deprecated but will discuss further with BHA in January 2020. | | priorities by distributing the work according to the resource bandwidth. This will ensure that the | production bug has been identified, the efficacy | | | | | | | | |
| | | | | | of regression testing should be evaluated. | | | | | | | | |
| | | | | schedule is not impacted and that the work is done | Minimal progress has been made in developing and executing automated regression test cases. | | | | | | | | |
| | | | | efficiently between regression testing and Golden Record (GR). | BHA is planning the upgrade of the Tricentis | | | | | | | | |
| | | | | Record (GR). | automated regression testing tool, Tosca 2021 | | | | | | | | |
| | | | | 3. Pursue and complete additional formal training in | version to the 2023 version. R4.6 regression | | | | | | | | |
| | | | | AzureDevOps and Tricentis for test automation at the | | | | | | | | | |
| | | | | earliest possible juncture and complete efforts to | automated regression testing. | | | | | | | | |
| | | | | automate the 2 primary regression test scripts. | | | | | | | | | |
| | | | | | 02/29/2024 - R4.5 development is ongoing. The | | | | | | | | |
| | | | | IV&V recommends DDD and CAMHD to develop a | soft code freeze was on 2/29/2024, and go-live | | | | | | | | |
| | | | | common and consistent approach across divisions for | is planned for 3/28/2024. The project team | | | | | | | | |
| | | | | performing regression testing. | contemplated a mid-sprint deployment (MSD) | | | | | | | | |
| | | | | | for 3 items: Adverse Event Report (AER), Maui | | | | | | | | |
| | | | | 4. Determine if current regression testing timeframes | Wildfire SMS, and ISP modifications) – AER was | | | | | | | | |
| | | | | are adequate and if not, add more time to the pre- | deployed on 2/29/2024, and the remaining two | | | | | | | | |
| | | | | production regression test efforts for all release | will be deployed in R4.5. Tricentis coaching | | | | | | | | |
| | | | | deployments. | sessions and coding of the automated testing | | | | | | | | |
| | | | | | for R4.5 are ongoing. R4.5 regression testing | | | | | | | | |
| | | | | Updating the regression test scripts to ensure | execution is planned in mid-March 2024. BHA is | | | | | | | | |
| | | | | consistency with system configuration. | reporting the progress and status of automated | | | | | | | | |
| | | | | Modifying release schedules to allow for regression | regression testing. IV&V will continue to | | | | | | | | |
| | | | | testing timeframes | monitor and review automated regression | | | | | | | | |
| | | | | Planning releases by functionality type to avoid | testing results and status reporting. | | | | | | | | |
| | | | | unnecessary repetitive work being performed in any | | | | | | | | | |
| | | | | given section of the solution. | 01/31/2024 - Tricentis coaching sessions and | | | | | | | | |
| 14 | Due to multiple quality concerns, the project | System defects identified in August that affected claims were | The identified quality issues have negatively affected DOH billing | Evaluate existing project staff skills and experience | 03/31/2024 - R4.5 regression testing was | Project Management | Issue | Medium | Open | | 9/30/2020 | Gautam | |
| | | | | | | i roject management | | | | | 5/ 50/ 2020 | | |
| | may continue to face impactful system | due to multi-faceted quality issues were individually addressed | processes and DOH has stated these are the most impactful | level to ensure they meet BHA support requirements. | completed successfully. R4.5 was deployed to | in ojece management | | | | | 5/ 50/ 2020 | Gulvady | |
| | may continue to face impactful system defects. | due to multi-faceted quality issues were individually addressed during this reporting period. IV&V notes that there is one | | level to ensure they meet BHA support requirements. | completed successfully. R4.5 was deployed to Production on 3/28/24, and smoke testing in | in open management | | | .,. | | 5/30/2020 | | |
| | | 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 | processes and DOH has stated these are the most impactful | level to ensure they meet BHA support requirements Perform CAMHD revenue neutrality fiscal balance | completed successfully. R4.5 was deployed to Production on 3/28/24, and smoke testing in production is planned for completion on 4/1/24. | in oject monogement | | | | | 5/30/2020 | | |
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| ID | Finding | Finding Statement | Analysis and Significance | Recommendation | Finding Update | Category | Туре | Priority | Status | Closed Date | Identified | Date Ow | ner | | |
|----|---|---|--|---|--|--------------------|-------|----------|--------|-------------|------------|---------|-------|--|--|
| 31 | Lack of regular Sprint reviews and sprint | Earlier in the project, end-of-sprint demos were conducted. | Based on Agile Best Practices, Sprint Demoes or reviews occur | According to Agile Best Practices, IV&V recommends | | Sprint Planning | Risk | Medium | Open | | 7/26/2023 | | utam | | |
| | demos will likely lead to misalignments | Sprint reviews/demos help to bring alignment across the team | | including Sprint reviews and demos in future releases | | | | | | | | Gul | vady | | |
| | between delivered work and stakeholder | and stakeholders. They are essential building blocks for better | product owner. | (R4.2 and onwards) with all relevant stakeholders to | | | | | | | | | | | |
| | needs. | software and teams. Sprint demos /reviews showcase the | | assess the completion of user stories, review | Accordingly, the vendor should schedule | | | | | | | | | | |
| | | main functionality to stakeholders and incorporate their | Sprint reviews/demos are crucial in bringing alignment across the | | demonstrations of new functionality/features as | | | | | | | | | | |
| | | feedback. Currently, the project has joint testing involving the | | | part of Sprint Reviews. | | | | | | | | | | |
| | | SI and BHA personnel. Per Agile Best practices, IV&V believes | | also help ensure the backlog is prioritized and well- | | | | | | | | | | | |
| | | having Sprint demos/reviews during a sprint helps clarify and | | prepared for the next Sprint. These are some | 02/29/2024 - Discussions are on-going about | | | | | | | | | | |
| | | validate design prior to testing, steer the team in the right | responses and make observations earlier during development | | R4.5 and R4.6 new functionality/features that | | | | | | | | | | |
| | | direction, and help to avoid big mistakes. This would also allow | | engagement, quality assurance, transparency, and | would be demonstrated. Accordingly, the | | | | | | | | | | |
| | | the testing team to focus solely on testing, which is beneficial. | | the incorporation of user feedback. | vendor to schedule demonstrations of new | | | | | | | | | | |
| | | | Moreover, they are invaluable in steering the team in the right | a construction of the second second second | functionality/features as part of Sprint Reviews. | | | | | | | | | | |
| | | | direction and avoiding big mistakes. It's interesting to note that the Sprint demo could bring to light bugs such as R4.1 bug 34055 | | 01/21/2024 The used as to eshed ula | | | | | | | | | | |
| | | | on the Portal, where the checkbox is on the left of the text. | communication channels. Regularly validate project | demonstrations of new functionality/features as | | | | | | | | | | |
| | | | on the Portal, where the checkbox is on the left of the text. | objectives and ensure that sprint deliverables remain | | | | | | | | | | | |
| | | | | consistent with stakeholder requirements. | part of sprint Reviews going forward. | | | | | | | | | | |
| | | | | consistent with stakeholder requirements. | 12/31/2023 - The vendor and BHA have a | | | | | | | | | | |
| | | | | 2. Foster active participation from users and | product backlog review process in place. IV&V | | | | | | | | | | |
| | | | | stakeholders during both Sprint Reviews and Sprint | will review the product backlog (living artifact), | | | | | | | | | | |
| | | | | Demos. Emphasize the value of iterative feedback to | | | | | | | | | | | |
| | | | | guide development and ensure that user needs are | and will monitor future Sprint reviews. | | | | | | | | | | |
| | | | | consistently met. | | | | | | | | | | | |
| | | | | | 11/30/2023 - The vendor and BHA have a | | | | | | | | | | |
| | | | | 3. Establish standardized communication protocols | product backlog review process in place. IV&V | | | | | | | | | | |
| | | | | for both Sprint Reviews and Sprint Demos. Encourage | | | | | | | | | | | |
| | | | | teams to deliver concise and informative progress | and will monitor future Sprint reviews. This was | | | | | | | | | | |
| | | | | reports, including achievements, challenges, and | changed from a Preliminary Concern to a | | | | | | | | | | |
| | | | | future plans. This will enhance stakeholder | Medium-priority Risk. | | | | | | | | | | |
| | | | | engagement and project transparency. | | | | | | | | | | | |
| | | | | | 10/31/2023 - The vendor has confirmed that | | | | | | | | | | |
| | | | | Create a stakeholder register to identify all | they will provide demonstrations of new | | | | | | | | | | |
| | | | | stakeholders. List their identification, assessment, | functionality/features as part of Sprint Reviews | | | | | | | | | | |
| | | | | and classification. Review the register regularly to | going forward. In parallel, joint testing of | | | | | | | | | | |
| 32 | | Due to issues with the Golden Record (GR) solution, the | GR implementaion has been delayed several times. As a result, | 1.Identify stakeholders (output is stakeholder | 03/31/2024 - CAMHD and DDD Stakeholders | Release/Deployment | Issue | Medium | Closed | 3/31/2024 | 7/10/2023 | | utam | | |
| | be delayed. | project may experience delays and a shift in focus from critical | | register) and develop a RACI matrix for the project to | continued to meet in March 2024 to clarify open | | | | | | | Gul | ivady | | |
| | | functionality. The GR is a crucial element that affects several | deployment (MSD) has been postponed multiple times. BHA | ensure adequate communication and stakeholder | questions regarding future GR development and | | | | | | | | | | |
| | | user stories dependent on it. The deployment of the GR has | reviewing original requirements and evaluating if BHA needs to | participation. | potential 3rd-party tool integration. One GR | | | | | | | | | | |
| | | been postponed to 08/19/2023, resulting in the transfer of | revisit the design. | | user story was implemented in R4.5, and no | | | | | | | | | | |
| | | approximately 150 story points into R4.2 and subsequent | | 2. Identify the objective of implementing GR | further GR development will be conducted. | | | | | | | | | | |
| | | releases. However, it is unclear which releases will include the | | production data use, benefits, current gaps in design, | Finding closed. | | | | | | | | | | |
| | | GR-related user stories | | effort estimates, resource commitments, and impact | | | | | | | | | | | |
| | | | | of having/not having GR. | 02/29/2024 - CAMHD and DDD Stakeholders to | | | | | | | | | | |
| | | | | a provide to de contrato e falte capital de de la | meet in March 2024 to clarify open questions, | | | | | | | | | | |
| | | | | 3. Prior to implementation of the GR, needed updates | | | | 1 | | | | | | | |
| | | | | to the consent form should be confirmed and | completed and questions around potential 3rd- | | 1 | 1 | 1 | | | | | | |
| | | | | completed, policies/procedures for all users should | party tool integration, to come to a common | | | 1 | | | | | | | |
| | | | | be confirmed, and all open defects should be resolved. | understanding about the scope and planned completion of GR development. GR has a scope, | | 1 | 1 | 1 | | | | | | |
| | | | | resolved. | | | | | | | | | | | |
| | | | | 4. Analyze the impact on the future functionalities | schedule, and cost impact. | | 1 | 1 | 1 | | | | | | |
| | | | | and assess the implications if this strategic change is | 01/31/2024 - While Golden Record (GR) mid- | | | 1 | | | | | | | |
| | | | | needed. | sprint Deployment (MSD) was deployed on | | | 1 | 1 | | | | | | |
| | | | | increased. | 12/21/2023, stakeholders across the project | | 1 | 1 | 1 | | | | | | |
| | | | | 5. GR working sessions should be resumed until there | | | | 1 | 1 | | | | | | |
| | | | | is clarity on remaining work to be completed, | where GR stands. IV&V sent an email on | | | 1 | | | | | | | |
| | | | | timeline for completion, etc. | 01/31/2024 recommending stakeholders have a | | 1 | 1 | 1 | | | | | | |
| | | | | | good common understanding of the Golden | | 1 | 1 | 1 | | | | | | |
| | | | | | Record (GR) functionality development | | | 1 | | | | | | | |
| | | | | 1 | (including, related regression testing) and | | 1 | 1 | 1 | | | | | | |
| | | | | | deployment, and the common understanding | | | 1 | 1 | | | | | | |
| | | | | 1 | and plans are communicated to all | | 1 | 1 | 1 | | | | | | |
| | | | | | stakeholders. The plan is to discuss and resolve | | | 1 | | | | | | | |
| | | | | 1 | the issue, e.g., during resumed GR working | | 1 | 1 | 1 | | | | | | |
| | | | | | session meetings, so a common statement of | | | 1 | | | | | | | |
| | | | | | understanding can be provided to all | | | 1 | | | | | | | |
| | | | | | stakeholders. This finding was changed from a | | | 1 | | | | | | | |
| | | | | | Risk to an Issue. | | | 1 | 1 | | | | | | |
| 1 | 1 | 1 | | 1 | | | 1 | 1 | 1 | 1 | 1 | 1 | | | |

| ID | Finding | Finding Statement | Analysis and Significance | Recommendation | Finding Update | Category | Туре | Priority | Status | Closed Date | Identified Dat | e Owner | |
|----|--|--|--|---|--|--------------------|----------|----------|--------|-------------|----------------|--------------|---|
| 33 | Performance bottlenecks with the INSPIRE | Performance issues have been identified that have the | Developmental Disability Division (DDD) personnel are | 1. The last performance test was executed in June | 03/31/2024 - To address the IV&V | Project Management | Issue | Medium | Open | | 8/18/2023 | Gautam | |
| | production environment may result in low | | encountering performance issues with re-assigning cases and | 2023 for phase 3 releases (R3.x). ~800+ new User | recommendation #1, BHA and the SI vendor are | | | | | | | Gulvady | |
| | productivity and poor user experience. | and the overall reliability of the system. These performance | opening the DDD – Contact Notes (Fiscal View – Complete) view. | | having discussions to define scope, schedule, | | 1 | 1 | 1 | | 1 | ., | |
| | ····· | issues warrant immediate attention and resolution. | CAMHD has not reported performance issues. | last performance test execution. IV&V recommends | and to estimate the effort and cost to conduct a | | | | | | | | |
| | | issues warrant initialate attention and resolution. | er anno nos nos reportes performance issues. | BHA execute a performance test during the | performance test prior to R4.6 implementation | | | | | | | | |
| | | | | development of R4.6 (planned completion | on 5/30/24. The plan is to execute the test in | | | | | | | | |
| | | | | 5/20/2024), identifying test cases and scenarios that | | | | | | | | | |
| | | | | include both DDD and CAMHD functionality, | Health Information Systems Office (HISO) | | | | | | | | |
| | | | | transactions/functionality that are performance | contract with Microsoft to conduct the | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | intensive, e.g., calculator functionality. | performance test. | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | 2. Conduct load and performance testing for each | 02/29/2024 - Per the IV&V recommendation | | | | | | | | |
| | | | | release that has significant new | about scheduling the next performance test, | | | | | | | | |
| | | | | features/functionality, e.g., calculator-related | CAMHD and DDD will have discussions about | | | | | | | | |
| | | | | transactions. | the scope and schedule for the next | | | | | | | | |
| | | | | | performance test. | | | | | | | | |
| | | | | Create a plan for comprehensive performance | | | | | | | | | |
| | | | | testing and address any performance bottlenecks. | 01/31/2024 - IV&V to discuss the criteria for | | | | | | | | |
| | | | | 1 | selecting upcoming release(s) for performance | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | 4. Have the benchmark assessments done annually | testing (as part of planning performance test) | | | 1 | 1 | | 1 | | |
| | | | | and implementation of Azure App Insights for Power | with BHA so planning can commence. A new | | 1 | 1 | 1 | | 1 | | |
| | | | | Platform. | recommendation has been added. | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | 1 | | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | 5. Execute test scripts that measure the run-time for | 12/31/2023 - IV&V to discuss performance test | | 1 | 1 | 1 | | 1 | | |
| | | | | execution of long-running transactions. E.g., | planning with BHA for upcoming release(s) with | | 1 | 1 | 1 | | 1 | | |
| | | | | calculator functionality/transactions and monitoring | | | | | | | | | |
| | | | | results over time. | significant new reactives/runctionality. | | | | | | | | |
| | | | | results over time. | 11/30/2023 - IV&V has discussed the next steps | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | with BHA (see updated recommendation #1). | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | 10/31/2023 - The IV&V review of the draft | | | | | | | | |
| | | | | | vendor contract indicates that the vendor is | | | | | | | | |
| | | | | | accountable for conducting load and | | | | | | | | |
| | | | | | performance testing of INSPIRE. IV&V will | | | | | | | | |
| 34 | Shortage of Behavioral Health Administration | Key BHA project resources have reported constraints on how | If BHA is unable to fully staff the project and their existing | 1. BHA should explore options for offloading project | 03/31/2024 - No change since the February | Resource Managemer | nt Issue | Medium | Open | | 8/18/2023 | Michael Fors | |
| | (BHA) project resources could lead to | much time they can devote to the project. The departure of | resources continue to be constrained, the project could | team members' daily responsibilities to other staff. | reporting period. | - | | | | | | | |
| | reduced productivity and project delays. | the Child and Adolescent Mental Health Division (CAMHD) | experience a reduction in productivity and project delays. | | | | | | | | | | |
| | | System Management Office Manager and CAMHD Inspire | | 2. BHA should work quickly to backfill vacated project | 02/29/2024 - DDD plans to request one (1) | | | | | | | | |
| | | Project Lead could further impact the project if DOH cannot | | team member positions. | business analyst position to address resource | | | | | | | | |
| | | acquire suitable resources. The lack of capacity of the DOH test | | | shortages. | | | | | | | | |
| | | script developer has slowed DOH's automated test script | | 3. BHA should identify tasks and duties that they can | shortages. | | | | | | | | |
| | | development. | | ask the SI to assume, as permitted by the contract, | 01/31/2024 - There continue to be significant | | | | | | | | |
| | | development. | | which are presently being handled by BHA members. | | | | | | | | | |
| | | | | which are presently being handled by BHA members. | | | | | | | | | |
| | | | | | documented in APDU #6. This finding was | | | | | | | | |
| | | | | 4. BHA should explore the use of contractors to fill | changed from a Risk to an Issue. | | | | 1 | | 1 | | |
| | | | | open project positions. | | | | | | | | | |
| | | | | | 12/31/2023 - During the Steering committee | | | | 1 | | 1 | | |
| | | | | 1 | meeting on 12/12/2023, DDD representative | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | | communicated since the three positions were | | 1 | 1 | 1 | | 1 | 1 | |
| | | | | | not included in the budget, DDD to submit a | | 1 | 1 | 1 | | 1 | 1 | |
| | | | | | variance for an IT position. | | | | 1 | | 1 | | |
| | | | | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | 1 | 11/30/2023 - DDD took proactive steps to | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | | address the IT shortages by creating three | | 1 | 1 | 1 | | 1 | | |
| | | | | | position descriptions along with justifications. | | 1 | 1 | 1 | | 1 | | |
| | | | | | However, the positions were not approved. | | 1 | 1 | 1 | | 1 | | |
| | | | | 1 | DDD will continue to explore other options and | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | 1 | find a solution to address the IT shortages. The | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | 1 | Healthcare System Management Office (HSMO) | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | | Chief's position was cancelled after it was | | 1 | 1 | 1 | | 1 | | |
| | | | | | opened. A Band B System Architecture resource | | 1 | 1 | 1 | | 1 | | |
| | | | | 1 | is now filling that role temporarily, in addition to | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | | | 1 | 1 | 1 | 1 | | 1 | | |
| | | | | | executing his own duties. The reporting | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | | hierarchy of resources that previously reported | | | | 1 | | 1 | | |
| | | | | | to the HSMO Chief is also unclear. | | | 1 | 1 | | 1 | | |
| | | | | | | | 1 | 1 | 1 | | 1 | 1 | 1 |
| | | | | | 10/31/2023 - With the departure of the BHA | | | | 1 | | 1 | | |
| | | | | | INSPIRE Child and Adolescent Mental Health | | | 1 | 1 | | 1 | | |
| | | | 1 | 1 | 1 · · · · · · · · · · · · · · · · · · · | 1 | 1 | 1 | 1 | | | | 1 |

| ID | Finding | Finding Statement | Analysis and Significance | Recommendation | Finding Update | Category | Туре | Priority | Status | Closed Date | Identified Date | Owner | |
|----|--|--|---|---|--|--------------------|------------------------|----------|--------|-------------|-----------------|-------------------|--|
| 35 | Lack of an ongoing cleanup process may lead to clutter and reduce Azure DevOps effectiveness in supporting the INSPIRE project management and tracking needs. | R3.33 work started, and the SI vendor was working with BHA on the Statement of Work (SOW). BHA made the decision not to implement R3.33 and moved on to the next big phase of work, starting with R4.1. Project team members will see some references to R3.33 in Azure DevOps, which are incorrect and should be updated to R4.1 or an appropriate future release. There is still cleanup happening for items that are in the parking lot, which may state R3.33 until those items are assigned to a release. | stories, e.g., "n" number of post-production defects in Rm.n to be implemented in Rx.y, monitor and measure the team's | and configuration of the Azure DevOps (AD) environment should be regularly monitored to prevent clutter and maintain its effectiveness in supporting the INSPIRE project management and tracking needs. 2. Configuration Review: Evaluate the Azure DevOps (AD) configuration settings. Ensure workflows, issue types, custom fields, and other settings are aligned with the project's needs and industry best practices. 3. Optimize Boards and Filters: Review the boards, filters, and tags in Azure DevOps (AD) to ensure they accurately reflect the status of work, and they are designed to facilitate efficient tracking and | post-production bugs are tagged "Post Go-Live Bug" with tags for the appropriate release(s). IV&V will monitor the progress. 01/31/2024 - RSM and BHA are standardizing (on-going process) the tags used in Azure DevOps and their usage, and are cleaning up the Azure DevOps environment. E.g., the four (4) R4.4 post-production bugs are tagged "Post Go-Live Bug". IV&V will monitor the progress. | Project Management | Preliminary Concern | N/A | 0pen | | 8/2/2023 | Gautam Gulvady | |
| 36 | Lack of a comprehensive project schedule could lead to missed tasks, project delays, and cost overruns. | Project work is ongoing without a project schedule in place. Some current project work is considered Maintenance and Operations, but there is new work to be completed as well. | Project work is ongoing without a project schedule in place. Some current project work is considered Maintenance and Operations, but there is new work to be completed as well. | I. Establish a clear project schedule management plan that outlines roles, responsibilities, and accountability for schedule adherence. Z. Create and baseline a comprehensive project schedule in MS project, Smartsheet, or a similar tool, containing tasks for both SI vendor and State, task dependencies, and resourcing. J. Implement regular schedule reviews and updates to ensure alignment with project objectives and milestones. | DevOps and their usage, and are cleaning up 03/31/2024 - The Data Sharing Agreement (DSA) between DDD and MDD is yet to be executed. The Analytics project will commence once the DSA is executed. 02/29/2024 - The project currently utilizes a high-level Gant chart, which shows planned release dates but does not provide visibility to task completion, tasks behind schedule, resource allocation, etc. The Data Sharing Agreement (DSA) between DDD and MQD is yet to be executed. The Analytics project will commence once the DSA is executed. A schedule for the analytics project will be developed once the stard date is known. IV&V recommends also developing a schedule for Phase 4. 01/31/2024 - Delays in executing the Data Sharing Agreement (DSA) contract between DDD and MQD. The Department. of Human Services (DHS) has delayed the commencement of the Analytics project schedule for the Analytics module. The priority has changed from Medium to High. 12/31/2023 - IV&V reviewed the vendor's final proposal regarding an approach to maintaining a complete project schedule as requested by the RFP. The vendor has communicated they will provide a complete project schedule for the schedule for the complete project schedule for the schedule as complete project schedule for the will provide a complete project schedule for the schedule for will provide a complete project schedule for the schedule for the schedule as requested by the RFP. The vendor has communicated the year on the schedule for the schedu | Project Management | Issue | Medium | Open | | 8/29/2023 | Gautam Gulvady | |

| ID | Finding | Finding Statement | Analysis and Significance | Recommendation | Finding Update | Category | Туре | Priority | Status | Closed Date | Identified Date | Owner |
|----|---|---|---|---|---|----------|-------|----------|--------|-------------|-----------------|-------------------|
| 39 | 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/DOHBHA/DOH%20BHA%20INSPIRE/_wor ktems/edit/3486), what is in development and deployed is vastly different from what was deployed to production. The root cause for these errors is currently being investigated. 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. | improved collaboration and reliability, scalability, version control integration, and rollback capability. 2. Ensure there are adequate and qualified resources to support the current deployment processes. This may require the support from RSM resources to | testing in Production is scheduled for 4/1/24. IV&V will monitor the progress and quality of the R4.5 deployment. 02/29/2024 - Three (3) of Four (4) post- production bugs (severity: 2 critical, 1 high, 1 medium) have been fixed and tested (in the development and test environments) and will be deployed to production with R4.5. One (1) post-production bug is yet to be created in DevOps. IV&V will monitor the progress and quality of the R4.5 deployment after deployment-related, and two (2) of these are deployment-related, and two (2) of the deployment once R4.5 is deployed in March | 1 | Issue | Medium | Open - | | 1/25/2024 | Gautam Gulvady |
| 40 | Improvements to the testing process are needed to ensure comprehensive testing of new functionality prior to production deployment. | 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. | I. identify stakeholders (output is stakeholder register) and develop a RACI matrix for testing. Z. Review the overall testing process and implement any needed improvements identified. | 03/31/2024 - CAMHD is populating the stakeholder registry and the RACI matrix to address adequate statewide participation and engagement in the testing process. 02/29/2024 - CAMHD is developing a Stakeholder registry and RACI matrix to address adequate statewide participation in the testing process. 01/31/2024 - CAMHD is developing a Stakeholder registry and RACI matrix to address adequate statewide participation in the testing process. 01/31/2024 - 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. | | Issue | Medium | Open | | 1/31/2024 | Gautam Gulvady |

| | Finding | Finding Statement | Analysis and Significance | Recommendation | Finding Update | Category | Туре | Priority | Status | Closed Date | Identified Date | Owner | |
|----|--|---|--|---|---|--------------------|-------|----------|--------|-------------|-----------------|---------|---|
| 41 | Absence of separate dedicated product | Currently, product backlog reviews are done during design | A product backlog review is an essential part of agile project | Separate dedicated product backlog review meetings | 03/31/2024 - BHA to schedule separate product | Sprint Planning | Risk | Medium | Open | | 1/26/2024 | Gautam | |
| | backlog review meetings can pose several | meetings and/or weekly issues meetings. This can lead to, e.g., | | (during sprints) would allow clarifying any | backlog review meetings. | -p8 | | | - p | | -,, : | Gulvady | |
| | challenges for a project team. | scattered focus, limited stakeholder engagement, difficulty in | | ambiguities or uncertainties, re-prioritization, | | | | | | | | , | |
| | | managing complexity, and delayed decision making. | Master, and development team members, inspect and adapt the | estimation, and refinement of backlog items. This | 02/29/2024 - Product backlog reviews are still | | | | | | | | |
| | | | product backlog. | would allow the project team to avoid situations | done during design meetings and/or weekly | | | | | | | | |
| | | | | where decisions about including items mid-sprint | issues meetings. The project team | | | | | | | | |
| | | | The product backlog review is an important Scrum ceremony | would have to be taken. | contemplated a mid-sprint deployment (MSD) | | | | | | | | |
| | | | that helps keep the backlog relevant, up-to-date, and aligned | | for three (3) items (AER, Maui Wildfire SMS, and | | | | | | | | |
| | | | with the project's goals and priorities. Here's a summary of what | IVV recommends scheduling separate dedicated | ISP modifications) - AER was deployed on | | | | | | | | |
| | | | typically happens during a product backlog review: | product backlog review meetings (during sprints) | 2/29/2024, and the remaining two will be | | | | | | | | |
| | | | cypically happens daring a produce backlog review. | where all relevant stakeholders are invited to review | deployed in R4.5. BHA to schedule separate | | | | | | | | |
| | | | 1. Inspecting Backlog Items: The team reviews the items on the | the product backlog and scheduled at the | dedicated product backlog meetings for scoping | | | | | | | | |
| | | | product backlog. This involves discussing each item, | appropriate time(s) such that there is sufficient time | R4.6 to help avoid the need for including items | | | | | | | | |
| | | | understanding its priority, value, and acceptance criteria. | to plan the design, development, and | mid-sprint. | | | | | | | | |
| | | | 2. Ensuring Clarity: The team ensures that each backlog item is | implementation (DDI) of the next release(s). | | | | | | | | | |
| | | | clear and well-understood. Any ambiguities or uncertainties are | implementation (BBI) of the next release(b). | 01/31/2024 - Currently, product backlog | | | | | | | | |
| | | | clarified at this stage. | | reviews are done during design meetings | | | | | | | | |
| | | | 3. Estimation: Estimation of backlog items may occur during the | | and/or weekly issues meetings. The Product | | | | | | | | |
| | | | review. The team may use techniques like story points or relative | | backlog review is a more structured meeting | | | | | | | | |
| | | | sizing to estimate the effort required for each item. | | specifically dedicated to reviewing the entire | | | | | | | | |
| | | | 4. Re-prioritization: Based on new insights, changes in | | backlog, making adjustments, and ensuring its | | | | | | | | |
| | | | requirements, or stakeholder feedback, the team may need to re | 1 | readiness for upcoming sprints. The product | | | 1 | | | | 1 | 1 |
| | | | prioritize items in the backlog. | | backlog review is typically conducted as a | | | 1 | | | | 1 | |
| | | | 5. Removing or Adding Items: Items that are no longer relevant | | separate meeting. The purpose of keeping it | | | | | | | | |
| | | | or necessary may be removed from the backlog. New items that | | separate is to focus specifically on the backlog | | | | | | | | |
| | | | emerge or are identified as important may be added. | | items, their priorities, and any necessary | | | | | | | | |
| | | | 6. Refinement: Backlog refinement may also occur during the | | adjustments to ensure alignment with the | | | | | | | | |
| | | | review. This involves breaking down large items into smaller, | | product vision and stakeholder needs. It | | | 1 | | | | 1 | |
| | | | more manageable ones, or adding more detail to items as | | typically occurs periodically, e.g., once per | | | 1 | | | | 1 | |
| | | | needed. | | sprint or at regular intervals, to ensure the | | | | | | | | |
| | | | Collaboration: The review is a collaborative effort involving the | | backlog remains up-to-date, prioritized, and | | | | | | | | |
| | | | Collaboration: The review is a collaborative effort involving the entire Scrum team. It's an opportunity for open discussion and | | | | | 1 | | | | 1 | |
| | | | | | aligned with the project's goals. | | | 1 | | | | 1 | |
| | | | sharing of ideas to ensure everyone is aligned on the goals and priorities. | | | | | 1 | | | | 1 | |
| | | | | | | | | | | | | | |
| | | Lack of effective governance and communication among | Ineffective governance and communication among stakeholders | | 03/31/2023 - Division heads from three (3) | Project Management | Issue | Medium | Open | | 2/29/2024 | Gautam | |
| | lacking on the project. | stakeholders can have significant negative impacts on a project | | recommendations to establish effective governance | divisions, the Developmental Disabilities | | | | | | | Gulvady | |
| | | in several ways. | stakeholder disengagement, misunderstandings, conflict and | and communication among stakeholders: | Division (DDD), Child & Adolescent Mental | | | | | | | | |
| | | | tension, misalignment of objectives, increased risks, unclear | | Health Division (CAMHD), and Alcohol & Drug | | | 1 | | | | | |
| | | | | | | | | 1 | | | | | |
| | | | roles and responsibilities, and quality issues. An example on this | | Abuse Division (ADAD), met in March 2024 to | | | | | | | | |
| | | | | 1. Create a Governance Structure: Implement a governance structure that defines decision-making | Abuse Division (ADAD), met in March 2024 to discuss and resolve Golden Record-related | | | | | | | | |
| | | | roles and responsibilities, and quality issues. An example on this | | | | | | | | | | |
| | | | roles and responsibilities, and quality issues. An example on this project is the development and implementation of Golden | governance structure that defines decision-making | discuss and resolve Golden Record-related issues. DDD has added a Policy & Procedures- | | | | | | | | |
| | | | roles and responsibilities, and quality issues. An example on this project is the development and implementation of Golden | governance structure that defines decision-making processes, escalation procedures, and accountability | discuss and resolve Golden Record-related issues. DDD has added a Policy & Procedures- | | | | | | | | |
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