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November 17, 2022

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-First State Legislature State Capitol, Room 409 Honolulu, Hawai'i 96813 The Honorable Scott K. Saiki Speaker and Members of the House of Representatives Thirty-First 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 3

Final IV&V Report for the period of

September 1 – September 30, 2022

Final submitted: October 14, 2022



Solutions that Matter

Agenda

Executive Summary IV&V Findings & Recommendations

Appendices

- A Rating Scales
- B Inputs
- C Project Trends





Executive Summary

The Project deployed R3.26 to production on 9/1/2022 with no post-deployment defects. This is a notable improvement from previous releases.

The Project Team completed the backlog review in September and added RSM staff to the project to meet the demands of the re-baselined backlog work.

The current DDD Product Owner announced she will be leaving the project in early October. IV&V has opened a new high issue due to the many roles and responsibilities the DDD Product Owner performs and the short transition period.

The pending IAPDU to extend the DD&I period beyond October 2022 will be submitted in early October. IV&V will continue to monitor the status of this impactful item.

| Jul | Aug | Sep | Category | IV&V Observations |
|-----|-----|-----|---|--|
| R | R | R | Sprint Planning | The Project completed the review of the backlog to ensure it is current, manageable, and feasible to implement within the development timeframes. The IAPDU to extend the current DD&I period will be submitted to DHS and CMS in early October. The criticality rating for this category remains Red (high) for the September reporting period. |
| G | G | G | User Story (US) Validation There are no active findings in the User Story (US) Validation category which remain Green (low criticality) for the September reporting period. IV&V will continue to monit the US development and validation process in upcoming reporting periods. | |
| Y | Y | Y | Y Test Practice Validation Training on the Tricentis test automation tool started in September and will continue through R3.27 with full implementation targeted for R3.28. This category remains (medium criticality) for the September reporting period. | |
| R | R | R | Release / Deployment Planning | There were no post-production defects attributed to deployment issues for R3.26. BHA continues to collaborate with Microsoft and RSM on deployment best practices to ensure repeatable solution upgrade deployment activities. IV&V will continue to closely monitor this high criticality category. |



Executive Summary

| Jul | Aug | Sep | Category | IV&V Observations | |
|-----|-----|-----|---|---|--|
| G | G | G | OJT and KT Sessions | The criticality rating for the OJT and KT Sessions category remains Green (low) for the September reporting period with no active findings. | |
| G | G | G | Targeted KT | This category remains Green (low criticality) for the September reporting period. IV&V will continue to monitor. | |
| G | G | G | Project Performance Metrics | The R3.26 defect percentage was 32% which fell short of the target of 20% or less. The velocity for R3.26 of 77 USPs also fell short of the estimated 90 USPs. IV&V will continue to monitor this category. | |
| G | G | G | Organizational Maturity Assessment (OMA) | There were no updates to this category. The criticality rating for the OMA category remains Green (low). | |
| R | R | R | Project Management | Quality improved in September as there were no post-production defects for R3.26. The high criticality risk opened last month to address the barriers/delays in submitting an IAPDU is still a concern for IV&V, but the IAPDU should be submitted in early October. IV&V opened a new high criticality issue related to the departure of the DDD Product Owner. The criticality rating for this category remains red this month. | |



Executive Summary

As of the September 2022 reporting period, there are a total of eleven (11) open findings – four High Issues, five Medium Issues, one High Risk, and one Preliminary Concern spread across the Sprint Planning, Release / Deployment Planning, Test Practice Validation, and Project Management assessment areas.





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 Transfer (KT) Sessions
- Targeted Knowledge Transfer (KT)
- Project Performance Metrics
- Organizational Maturity Assessment
- Project Management

IV&V Findings & Recommendations Sprint Planning

| # | Key Findings | Criticality Rating |
|-------|--|-----------------------|
| 7 | High Issue - The BHA Technical Team bandwidth may not be adequate to meet the needs of the project, which could compromise project productivity. The completion of the backlog analysis and updates in previous months resulted in a backlog larger than envisioned. As a result, BHA and RSM agreed to add RSM resources to the project nearly doubling the RSM staff over the final stretch of development. This is a very positive start to resolving the overall technical staffing issue. IV&V will continue to monitor moving forward. | • |
| Recor | nmendations | Status |
| • BH/ | A needs, and should pursue, documentation of the Calculator 3.0 solution. | In progress |
| | Project should investigate mechanisms of increasing the bandwidth of the BHA Technical Team, either by ing resources through new hires, or vendor contracts. | Completed |
| | Project should assess, where possible, if there are responsibilities of the BHA Technical Team that can reassigned to other project staff. | In progress |
| | Project should evaluate where process inefficiencies can be addressed and streamlined to possibly free he BHA Technical Team's availability. | In progress |



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

| Recommendations | Status |
|--|-----------|
| BHA needs, and should pursue, additional Knowledge Transfer sessions on the updated Calculator 3.0 solution. | Completed |
| The Project should consider the formation of a first level resource team to triage/address production defects in a timely manner, without disrupting new development work. | Completed |
| The Project should consider procurement of an online training toolset to support OCM and technical efforts to offset the need for in-person training. | Completed |



IV&V Findings & Recommendations Test Practice Validation

| # | Key Findings | Criticality Rating |
|---|--|-----------------------|
| 2 | Medium Issue – As a result of regression testing not being consistently performed, production releases are breaking and/or deprecating existing functionality in the production environment. Regression testing was successfully completed for R3.26 which was promoted to production on 9/1/2022. There were no post go-live bugs reported. A Tricentis project kick-off was conducted on 9/2/2022 with ongoing training in progress through R3.27. R3.28 remains the target release for full implementation and execution of the test automation tool. | M |

| Recommendations | | |
|---|-------------|--|
| Pursuing additional formal training in AzureDevOps for test automation at the earliest possible juncture and commence efforts to automate at least the 2 primary regression test scripts. | In progress | |
| IV&V recommends DDD and CAMHD develop a common and consistent approach across divisions for regression testing. | Completed | |
| 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. | Completed | |



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

| Recommendations | Status |
|---|-----------|
| Updating the regression test scripts to ensure consistency with system configuration. | Completed |
| Modifying release schedules to allow for regression testing timeframes. | Completed |
| Planning releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution. | Completed |
| Performing regression testing after every release, or possibly every other release, or potentially tying regression tests to FSU releases. In addition, consider alternating the DDD and CAMHD scripts every other release. | Completed |
| Modifying regression test scripts to start AFTER case creation, limiting the time it takes to execute. (This recommendation was for a point in time and is no longer valid.) | Completed |
| Implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed. | Completed |
| Modifying the deployment scripts based on information gained from previous release deployments. | Completed |



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

| Recommendations | |
|--|-----------|
| Consulting with RSM to determine how the 'interim testing processes' can be improved until such time that automated testing is available for repeatable and complete industry standard regression testing. | Completed |
| IV&V recommends performing an RCA in collaboration with RSM for the continued concerns with regression testing efforts. | Completed |

12

IV&V Findings & Recommendations Release / Deployment Planning

| # | Key Findings | Criticality Rating | |
|-----|--|-----------------------|--|
| 18 | High Issue - Due to ongoing deployment processes and technical execution issues, the Project may continue to encounter defects and challenges in meeting projected timelines for production and non-production deployments. The R3.26 release was deployed to production on 9/1/2022, using the patch deployment methods. The upcoming R3.27 and R3.28 releases will require full solution upgrades (FSU) for deployment based on their entity contents. FSUs have historically been quite challenging for the project, inferring that this may increase risk to these releases. To help mitigate the risk, BHA continues to collaborate with Microsoft and RSM on deployment best practices. While BHA continues to increase their learning, they acknowledge that there are still several unknowns in terms of applying those practices. The team's knowledge gaps for repeatable deployment activities are not fully understood. The R3.27 FSU was successfully moved to the test environment prior to the end of September, and the production promotion is planned for mid-October. IV&V will continue to monitor this high exposure issue. | ſ | |
| Re | Recommendations | | |
| 1 | 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. | | |
| • , | As appropriate, consult with RSM on best practices that BHA could employ to support deployment. | In Progress | |



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

| Recommendations | Status |
|---|-------------|
| Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with consistency of the configurations across environments, ensuring that the test environment is capable of testing ALL functions of any given release without the need for using multiple test environments. | In Progress |
| Request 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. | In Progress |
| The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls. | In Progress |
| IV&V recommends performing an RCA in collaboration with RSM for the continued concerns surrounding environment differences. | In Progress |
| IV&V recommends updating the Project's Configuration Management Plan to address the current needs of the Project. This should include specific checklists geared at ensuring repeatable promotional processes by DOH. | In Progress |
| Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed. | Completed |
| 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. | Completed |
| Work in collaboration with RSM to establish a transition plan for DOH to assume all deployment activities to ensure complete ownership of these processes. This should assist with consistency in approach and execution going forward. | Completed |



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

| Recommendations | Status |
|---|-----------|
| 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. | Completed |
| Due to an error prone process of 'cherry picking' what is and what is not ready for deployment, IV&V recommends that DOH and RSM collaborate to determine an improved manner for managing DOH environments. (As a result of how the current development environment is being managed, 'cherry picking' components to deploy will continue to occur. This recommendation is closed.) | Closed |



| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| 14 | Medium Issue - Due to multiple quality concerns, the Project may continue to face impactful system defects. R3.26 was deployed to production on 9/1/2022. No post-deployment defects were identified following this release which is the first occurrence in at least the last five releases. IV&V will continue to monitor this medium exposure issue. | M |

| Recommendations | Status |
|--|-------------|
| • Evaluate existing project staff skills and experience level 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 |
| Assign dedicated resources to provide oversight of CAMHD Fiscal Processes. | In Progress |
| Monitor implemented IV&V recommendations for effectiveness. | In Progress |



| Recommendations | Status |
|---|--------------|
| IV&V recommends performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement. | Completed |
| • BHA and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase level of detail and quality. | Completed |
| Perform typical project testing including System Integration, User Acceptance, Performance, and Regressio Testing. | on Completed |
| Dedicate sufficient time in between releases for BHA and RSM to execute/implement RCA correction action to reduce the volume of unplanned rework. | Completed |



| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| 12 | Medium Issue – PII/PHI data in non-production environments. The Security Assessment is pending approval by the ASO. RSM is planning to address this issue as part of the backlog scope for R3.28. IV&V will continue to monitor this medium criticality issue. | M |

| Recommendations | Status |
|---|-------------|
| IV&V recommends DOH consider limiting the volume of environments with PII/PHI data and access necessary to support development work, which should help minimize this risk. | Open |
| IV&V recommends if production data is necessary in any non-production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data. | In Progress |
| • IV&V recommends that DOH mitigates this finding by minimizing and/or masking PHI/PII data in designated non-production environments. | In Progress |



| Medium Issue – Unplanned rework may have an impact on delivering DDI functionality by the end of the DDI period. The defect percentage of USPs deployed to production climbed again in September. R3.26 had an estimated velocity of 90 USPs, and 77 USPs were promoted to production. Thirty-two percent (32%) of all USPs in R3.26 were attributable to defects, while 68% of the total USPs were associated with planned user stories and requests. This September metric falls short of the target of no more than 20% of the total USPs promoted during the month. IV&V will continue to monitor this medium criticality finding. | # | Key Findings | Criticality Rating |
|--|----|---|-----------------------|
| | 21 | of the DDI period. The defect percentage of USPs deployed to production climbed again in September. R3.26 had an estimated velocity of 90 USPs, and 77 USPs were promoted to production. Thirty-two percent (32%) of all USPs in R3.26 were attributable to defects, while 68% of the total USPs were associated with planned user stories and requests. This September metric falls short of the target of no more than 20% of the total USPs promoted during the month. IV&V will continue to monitor this medium | M |

| Recommendations | | Status |
|-----------------|---|-------------|
| • | Reduce the amount of unplanned rework by continuing to focus on quality improvement measures. | In Progress |
| • | Strive for defect performance metric not to exceed 20% of all user story points in any given release. | In Progress |

| # | Key Findings | Criticality Rating |
|----|---|-----------------------|
| 22 | High Issue - The project schedules for 'big boulder' functionality development are slipping. 'Big Boulder' prioritized features/functionality implementation schedules continued to slide and change priority during September. While staffing was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the project's requirements and expectations. | B |

| Recommendations | | Status |
|-----------------|---|-------------|
| • | Extend the current DDI timeframe to allow for the completion of 'big boulder' interfaces functionality development. | In Progress |
| • | BHA to add more resources to support the development of "big boulder' interfaces functionality. | Completed |



| # | Key Findings | Criticality Rating |
|----------|--|-----------------------|
| 25 | Medium Issue - The lack of a formal project governance structure is impeding decision-making procedures and overall leadership cohesiveness. The Project Charter was signed and approved during September, which is the first step in enacting a formal governance process for the project. IV&V will continue to monitor the governance activities. | M |
| Reco | ommendations | Status |
| pc re | stablish a formal project governance structure to allow CAMHD, DDD, and other divisions to 1) have a single bint of accountability, 2) ensure the right projects are approved, 3) outline roles, responsibility and lationships among project stakeholders, 4) provide issue management and resolution, and 5) help with formation dissemination and transparent communication. | In Progress |



| # | Key Findings | Criticality Rating |
|----|--|-----------------------|
| 26 | Preliminary Concern - The inability for BHA staff to work remotely is decreasing productivity and causing morale issues amongst team members. Project team members have reported decreased productivity. There is a strong likelihood of the Project losing team members due to their inability to work remotely, as evidenced by a current Help Desk employee retiring and the DDD Product Owner leaving BHA and citing this as one of the reasons. The Department may consider granting remote work. | N/A |



| # | Key Findings | Criticality Rating |
|------|---|-----------------------|
| 27 | High Risk - The current DDI period expires at the end of October 2022 which will require RSM to transition the D365 solution to the State prior to contract end. Efforts to submit an IAPDU to pursue CMS Federal funding approval for extending DD&I through May 2023 have progressed in September and BHA plans on submitting the IAPDU to CMS in early October. If the IAPDU is not approved by the end of October, the project will be at major risk. | 8 |
| | | |
| Reco | ommendations | Status |
| • DI | HS to reconcile current claims invoicing discrepancies. | In Progress |



| # | Key Findings | Criticality Rating |
|-----------------|--|-----------------------|
| 28 | <i>New High Issue</i> - The DDD Product Owner resigned her position in September and will transition off the project in early October. The absence of the current DDD Product Owner will cause major challenges for DDD as she wore multiple hats and is responsible for many aspects of the day-to-day work from both an administrative and business perspective. | • |
| Recommendations | | Status |
| | &V recommends a formal transition plan be fully defined and executed prior to the DDD Product Owner eparture. | Completed |
| | &V recommends DDD seek (internal/external) multiple staff to replace the DDD Product Owner for each le served. | New |
| | &V recommends DDD consider soliciting contracted staff to fill the immediate gaps with the DDD Product wner's departure. | New |



IV&V Findings & Recommendations Project Performance Metrics

| Metric | Description | IV&V Observations | IV&V Updates |
|----------|--|---|--------------|
| Velocity | Review and validate the velocity data as reported by the project Verify the project is on pace to hit the total target number of US/USP for Phase 3 | September - Available velocity was estimated at 90 user story points for R3.26 and a total of 77 user story points were promoted to production. This was accomplished with two (2) very small mid-sprint deployments in late August and early September coupled with the final release on September 1, 2022. The overall cumulative Phase 3 targeted USP's was planned for 2,197 and the actual USP count is now 2,879.27. Overall, this continues to exceed expectations for volume of work performed. | N/A |



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

| Metric | Description | IV&V Observations | IV&V Updates |
|----------------|---|---|--------------|
| Defect Metrics | Understand and track the following: Defects by category (bug fixes) US Points assigned to defects in a release vs US Points assigned to planned US in a release | September - R3.26 was deployed to production on September 1, 2022, with a total of 77 USPs. 68% of the total USPs were associated with planned user stories and requests. 32% of the total USPs were associated with defects that were either encountered during the release or pulled from the backlog. The defect ratio in September 2022 did not meet the target threshold of 20% or less of the total USPs in any given release. | N/A |



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.

Appendix A Finding Criticality Ratings

| Criticality Rating | Definition |
|-----------------------|--|
| 8 | 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. |
| М | A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be implemented as soon as feasible. |
| L | A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible. |



Appendix B: Inputs

Appendix B Inputs

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

Meetings attended during the September 2022 reporting period:

- 1. Daily Scrum Meetings (selected)
- 2. Twice Weekly RSM Issues Meeting
- 3. Weekly BHA-ITS Project Status Meeting
- 4. Bi-Weekly Check-in: CAMHD
- 5. Bi-Weekly Check-in: DDD
- 6. IV&V Draft IV&V Status Review Meeting with DOH
- IV&V Draft IV&V Status Review Meeting with RSM and DOH

Eclipse IV&V[®] Base Standards and Checklists

Artifacts reviewed during the September 2022 reporting period:

- 1. Daily Scrum Notes (selected)
- 2. Twice Weekly Issues Meeting Notes (selected)



Appendix C: Project Trends

Appendix C Project Trends

| Trend: Overall Project Health | | | | | | | | | | |
|---------------------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Drososs Aroa | 2021/2022 | | | | | | | | | |
| Process Area | | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| 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 | | | | | | | | | | |
| | | i | | 1 | | î | 1 | i | | İ |
| Total Open Findings | 8 | 8 | 7 | 7 | 7 | 7 | 8 | 9 | 10 | 11 |
| Issue - high | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 |
| Issue - medium | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 |
| Issue - Iow | 3 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Risk - high | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Risk - medium | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Risk - low | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Preliminary Concern | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |





Solutions that Matter

| ID [| Date Identified Finding | Finding Statement | Supporting Analysis | PCG Recommendation | Finding Update | Process Area | Finding Type | Priority | Status | Risk Owner | Closure Reason |
|------|--------------------------------------|--|---|---------------------------------------|--|--------------------------|--------------|----------|--------|------------------|----------------------|
| 1.00 | 12/31/2019 Detailed investigation | IV&V is currently investigating | While having a high level roadmap is good, | As much as possible, the project | 01/31/2020 - IV&V is closing this concern, | Sprint Planning | Preliminary | N/A | Closed | Ramesh, Vijaya | Due to multiple |
| | into the project's sprint | the following topics as they | the project should be able to identify what | should identify what feature | and will be tracking items related to | | Concern | | | (PCG) | new items being |
| | planning processes and | relate to Sprint Planning and the | feature enhancements will be targeted for | enhancements will be targeted | Definition of Done, roadmap, resourcing, | | | | | | tracked at a more |
| | adoption of generally | project's overall approach to | each planned release. This roadmap will help | for each Release and should | and backlog grooming in new, separate | | | | | | granular level, this |
| | accepted agile best | agile software development: - | the project manage scope and productivity. | clearly map out the roadmap out | findings. | | | | | | item has been |
| | practices. | IV&V acknowledges that the | Relatedly, the "definition done" is an | through the last Phase 3 release | | | | | | | closed. |
| | | project is now planning three | important artifact to ensure that the project | in September 2020.Additionally, | | | | | | | |
| | | sprints outs, however, it appears | is successful. Otherwise, the project will | the project should clearly define | | | | | | | |
| | | that only a "high-level" sprint | struggle to prioritize requests/enhancements | "Done" to ensure the project | | | | | | | |
| | | planning roadmap has been | and manage scope. | team is working towards the | | | | | | | |
| | | produced, and it is unclear | | same goal and increase | | | | | | | |
| | | exactly how the project is | | opportunities for success. Having | | | | | | | |
| | | targeting features for each | | a clear "definition of done" will | | | | | | | |
| | | release through the end of Mod | | help provide the project with | | | | | | | |
| | | 4 IV&V is not aware of how | | guidance on how to stay within | | | | | | | |
| | | the project is currently defining | | scope. | | | | | | | |
| | | "done" for Mod 3 and Mod | | | | | | | | | |
| | | 4Additionally, in the January | | | | | | | | | |
| | | 2020 reporting period, IV&V will | | | | | | | | | |
| | | seek additional information and | | | | | | | | | |
| | | visibility into the project's | | | | | | | | | |
| | | processes specific to prioritizing | | | | | | | | | |
| | | requests and how user stories in | | | | | | | | | |
| | | TFS are tagged to features, as | | | | | | | | | |
| | | well as the realignment of | | | | | | | | | |
| | | project development and | | | | | | | | | |
| | | configuration resources to | | | | | | | | | |
| 2.00 | 12/31/2019 As a result of regression | complete the scope of Release R3.3 introduced a defect that | Thorough vetting and validation of | Pursuing additional formal | 09/30/2022 - Regression testing was | Test Practice Validation | Issue | Medium | Open | Darren Macdonald | |
| 2.00 | testing not being | deprecated features in | regression test cases is necessary to prevent | training in AzureDevOps for test | successfully completed for R3.26 which was | | 10540 | | open | | |
| | consistently performed, | 1 · | both defects and the deprecation of | automation at the earliest | promoted to production on 9/1/2022. There | | | | | | |
| | production releases are | | production functionality when a release is | | were no post go-live bugs reported. A | | | | | | |
| | breaking and/or | | pushed live. When defects occur in | efforts to automate at least the 2 | | | | | | | |
| | deprecating existing | IV&V that there are other | production, the project should follow a | primary regression test scripts. | 9/2/2022 with ongoing training in progress | | | | | | |
| | functionality in the | | defined and repeatable process for | IV&V recommends DDD and | through R3.27. R3.28 remains the target | | | | | | |
| | production | deprecated after a release, | determining the root cause of the problem. | CAMHD to develop a common | release for full implementation and | | | | | | |
| | environment. | some of which are still being | | and consistent approach across | execution of the test automation tool. | | | | | | |
| | | investigated. As of this report, | | divisions for performing | 08/31/2022 - Regression testing is currently | | | | | | |
| | | IV&V has not evaluated the | | regression testing. | underway for R3.26 which is planned to be | | | | | | |
| | | project's root cause analysis | | Determine if current regression | promoted to production on 9/1/2022. The | | | | | | |
| | | (RCA) process used to determine | | testing timeframes are adequate | Project has published a plan for | | | | | | |
| | | why such functionality was | | and if not, add more time to the | implementing the Tricentis tool which kicks- | | | | | | |
| | | deprecated but will discuss | | pre-production regression test | off on 9/2/2022. The Tricentis | | | | | | |
| | | further with BHA in January | | efforts for all release | Implementation Plan is detailed and | | | | | | |
| | | 2020. | | deployments. | comprehensive. Test automation is | | | | | | |
| | | | | Updating the regression test | expected to commence with R3.27 and full | | | | | | |
| | | | | | integration (test automation and test result | | | | | | |
| | | | | system configuration. | tracking) is targeted for R3.28. IV&V will | | | | | | |
| | | | | Modifying release schedules to | continue to monitor the progress of the | | | | | | |
| | | | | allow for regression testing | Tricentis tool implementation. | | | | | | |
| | | | | timeframes | 07/31/2022 - This high criticality finding | | | | | | |
| | | | | | continues to be the most impactful issue | | | | | | |
| | | | | type to avoid unnecessary | affecting the Project. Helpdesk team | | | | | | |
| | | | | repetitive work being performed | members brought in to assist and support | | | | | | |
| | | | | in any given section of the solution. | the deployment team continue to improve | | | | | | |
| 1 | | | | Isolution. | their skills and experience with the last | | | | | | |
| 3.00 | 12/21/2010 | | N(0) (La sur a d'a Da sur han 2010) | | N/OV and a DUM and the | 00/24/2020 11/01/12 | Terrested VT | D:-I | Law | Classed | Daman Maadamald | DOM have |
|------|------------|--|--|---|--|--|----------------------|-------|--------|---------|------------------|------------------------------|
| 3.00 | 12/31/2019 | Usage of open source JavaScript framework for | that the Calculator 3.0 | Open source tools and frameworks offer | IV&V recommends BHA work to establish a reliable and | 08/31/2020 - IV&V is unaware of any additional KT gaps being identified by DOH, | Targeted KT | Risk | Low | Closed | Darren Macdonald | RSM has successfully held |
| | | development and | functionality is built in Vue.JS, | organizations great opportunities to build and configure customized solutions at lower | repeatable process for keeping | and as such, is closing this | | | | | | several KT |
| | | | an open source JavaScript | costs than through software purchase or | abreast of communal updates | finding.07/31/2020 - The Project resolved | | | | | | sessions for this |
| | | Calculator 3.0 requires | | licensing. However, open source tools and | and support opportunities for a | the majority of the outstanding Calculator | | | | | | technology and |
| | | BHA to take a proactive | relatively new, the open source | frameworks often do not come with support | new suite of tools - | 3.0 defects during July which was | | | | | | functionality, and |
| | | | support community is small. | models, other than those offered through | CompletedIV&V recommends | implemented in the mid-sprint release on | | | | | | DOH staff have |
| | | | IV&V's concerns include: - The | the tool's community. Because of this, the | | 7/17/2020. The final Calculator 3.0 | | | | | | stated that it was |
| | | | availability of reliable support | organization bears the weight of seeking out | - | Knowledge Transfer session was conducted | | | | | | well received. |
| | | | for Vue.JS - The project's | reliable help and support, as well as much | Calculator 3.0 via a suite of tools, | _ | | | | | | |
| | | | understanding of any known | take a proactive approach to security and | and determine what additional | identify and communicate any additional KT | | | | | | |
| | | | vulnerabilities with Vue.JS, and | identifying any vulnerabilities in the tools. | skillsets, training, and/or | gaps to RSM during the month of August. If | | | | | | |
| | | | development of a process to | | resources are needed to support | no additional needs are identified, IV&V will | | | | | | |
| | | | remain current on | | BHA's long-term ownership of | close this finding. 06/30/2020 - The project | | | | | | |
| | | | vulnerabilities discovered by the | | Calculator 3.0 - Completed | continued to focus attention on the | | | | | | |
| | | | support community The RSM | | | Calculator 3.0 defects during the month of | | | | | | |
| | | | lead for Calculator 3.0 went on | | | June. RSM conducted another Calculator 3.0 | | | | | | |
| | | | extended parental leave in | | | Knowledge Transfer session on 6/26/2020 | | | | | | |
| | | | December 2019IV&V | | | and scheduled a final session for 7/17/2020. | | | | | | |
| | | | acknowledges that BHA has | | | 05/31/2020 - The project continued to focus | ; | | | | | |
| | | | downloaded Vue.JS to start | | | attention on the Calculator 3.0 user stories | | | | | | |
| | | | getting familiar with it. | | | and defects during the month of May. RSM | | | | | | |
| | | | | | | conducted another Calculator 3.0 | | | | | | |
| | | | | | | Knowledge Transfer session on 5/29/2020 | | | | | | |
| | | | | | | which IV&V attended. This session included | | | | | | |
| | | | | | | the new C3.0 year-end changes. Additional | | | | | | |
| | | | | | | KT sessions is planned for and IV&V will | | | | | | |
| | | | | | | continue to monitor this project component | | | | | | |
| 4.00 | 1/31/2020 | Due to the project not | There have been several defects | A complete, up to date, and documented | IVV recommends documenting | 12/31/2020 - IV&V has closed this issue as | Release/Deployment F | Issue | Medium | Closed | Darren Macdonald | |
| | | following a detailed | pushed to production with | deployment script is needed to ensure the | deployment scripts for both the | the related recommendations below has | | | | | | been addressed |
| | | deployment script, the | Phase 3 releases. Some of the | repeatability and stability of DOH's | patch method and the full | been completed. A subsequent medium | | | | | | and proposed |
| | | project may continue to | defects introduced to | production deployments. Since there are | solution upgrade method. The | issue finding (#19) has been opened to | | | | | | IV&V |
| | | experience defects | • | currently two deployment types (patches | script(s) should be in the form of | address ongoing deployment processes and | | | | | | recommendation |
| | | related to deployment | down to environmental | and full solution upgrades), two scripts may | a step-by-step procedure that | technical execution issues. 11/30/2020 - | | | | | | have been |
| | | activities. | promotional activities. In these | be warranted. An embedded process and | walks through from start to finish | | | | | | | completed. A |
| | | | instances, the DEV and TEST | documented script will help ensure that | of the deployment process and | on 11/11/2020. Approximately nine (9) new | | | | | | subsequent |
| | | | environments were not in sync | mistakes are minimized, and that | involve several technical staff to | defects were identified after the | | | | | | finding #19 has |
| | | | with the production | functionality is not mistakenly deprecated | ensure staff availability to | deployment. Root causes are suspected to | | | | | | been created to |
| | | | environment (missing business | when deployments take place. | accomplish these tasks when | be a combination of insufficient testing from | | | | | | address on-going |
| | | | rules, missing components, | | primary deployment personnel | a business perspective coupled with | | | | | | deployment |
| | | | missing dependencies, etc.). IVV | | are unavailable. Standardize the | deployment issues. A bulk record update | | | | | | processes and |
| | | | is aware that DOH staff | | content of all developer | task required as part of the implementation | | | | | | technical |
| | | | shadowed RSM staff for all | | deployment task notes, with a | was not included in the deployment, | | | | | | execution issues. |
| | | | deployment releases during | | goal of eliminating any potential | resulting in contacts being deprecated from | | | | | | |
| | | | Phase 2 with RSM providing | | ambiguity to the Deployment | the Circle of Support in Inspire. It is unclear | | | | | | |
| | | | instruction and DOH staff | | Team, resulting in a cleaner and | if any other deployment issues may have | | | | | | |
| | | | physically executing the tasks | | more repeatable set of | also contributed to the new defects. | | | | | | |
| | | | and activitios via koyboard For | | deployment processes and | Deployment corrections were applied in a mid sprint release on 11/27/2020. Based on | | | | | | |
| | | | and activities via keyboard. For | | instructions | | 1 | 1 | | | | |
| | | | Phase 3, it is unclear whether a | | instructions. | | | | | | | |
| | | | Phase 3, it is unclear whether a complete, up to date, and | | instructions. | the recurrence of this finding, IV&V has | | | | | | |
| | | | Phase 3, it is unclear whether a complete, up to date, and documented deployment script, | | instructions. | the recurrence of this finding, IV&V has changed this Risk to an Issue and will | | | | | | |
| | | | Phase 3, it is unclear whether a complete, up to date, and documented deployment script, or deployment notes, are being | | instructions. | the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved. | | | | | | |
| | | | Phase 3, it is unclear whether a complete, up to date, and documented deployment script, or deployment notes, are being utilized by BHA for deployment | | instructions. | the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved. 10/31/2020 - The RSM and DOH Teams have | | | | | | |
| | | | Phase 3, it is unclear whether a complete, up to date, and documented deployment script, or deployment notes, are being | | instructions. | the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved. | | | | | | |
| | | | Phase 3, it is unclear whether a complete, up to date, and documented deployment script, or deployment notes, are being utilized by BHA for deployment | | instructions. | the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved. 10/31/2020 - The RSM and DOH Teams have collaborated to develop a detailed | | | | | | |

| of Dor challed ability the go | nented 'Definition ne", which could nge the project's to fully achieve bals of Phase 3. documented 'Definition of Done' (DOD) for the BHA T 100 User Stories of for Pha Because of this, it is unclea proposed functionality/fea are prioritized for each spr and throughout Phase 3. | op goals that are important inputs for se 3. stakeholders to develop a Roadmap for r how Phase 3. Without the 'Definition of Done' document, the project is likely to struggle to prioritize proposed functionality/features which may be equally important but are at odds with each other. | of creating the Definition of Done. IV&V recommends that the project create this document and socialize this with project team before end of Feb 2020IV&V recommends that the project consider the items from the prioritized list, available resources and define "Done" as a percentage of the identified priority list with room for flexibility to add any other features/enhancements that will be identified during Phase 3. | and update the Definition of Done, adjusting as/if necessary. IV&V will continue to monitor the project's adherence to Definition of Done and progress against it but is closing out this concern as of the February report. | Project Management | Preliminary Concern | | | (PCG) | Definition of Done completed and socialized. |
|--|--|--|--|--|--------------------|------------------------|-----|--------|-------|---|
| result backlo non-es | by grooming could in the project og having obsolete, stimated, and y defined user continues to grow. Current there are approximately 42 defects and requests, of will almost 200 have a status o | 29 not ever be completed for any reason, they should be removed from the backlog to ensure its viability. 29 ensure its viability. 29 ensure its viability. 20 ensure its viability. | bring it as current and accurate as possible. This should include deprecating items no longer needed, and fully defining those items that are not yet fully defined, readying them for configuration or developer resources. To the extent feasible, BHA should involve RSM SMEs in this process, if only for the interim to get "caught up" on grooming efforts. (Closed)VV recommends that the project consider utilizing an age-based methodology for the deprecation of 'older' user stories in the backlog that may no longer be applicable or needed by the | 06/30/2020 - IV&V has observed for another month that the project continues to groom the backlog. As a result, we are closing this finding.05/31/2020 - The project team has determined the backlog grooming effort has caught up, as details for release 3.9 are completed and 3.10 is near completion. IV&V will keep this finding open for an additional month to validate that the backlog continues to be groomed as new stories and defects are identified. Efforts to keep the backlog groomed should take place each month so that release planning efforts are not delayed. 04/30/2020 - The project reported that 97% of the original backlog has been estimated at this time. That said, CAMHD has determined that there are several older, and possibly no longer necessary user stories in the backlog that are candidates for deletion. IV&V will keep this finding open and will re-assess it for impact during the month of May.03/31/2020 - IV&V validates that the backlog grooming effort has made great progress, however it is still in progress. The revised target date for completion was most recently 3/31/2020. The estimation effort | | Risk | Low | Closed | | The project has demonstrated they are consistently grooming the backlog. |

| 1/31/2020 The BHA Technical Team The BHA Technical Team plays a BHA needs, and should pursue, ald titonal Knowledge Transfer Sprint Planning Issue High Open Darren Macdonalis a dequate to meet the adequate to meet the needs of the project, needs of the project, needs of the project, project productivity. responsibilities associated with the team's expected culteraries time is to the bandwidth, the project and plays a critical ream 's time is to the bandwidth, the project and plays a critical ream's time is to the bandwidth issue, in the project and plays a critical ream's time is to the project and plays a critical ream's time is to the bandwidth issue, in the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a critical ream's time is to the benefit of the project and plays a cri | |
|---|--------------------|
| adequate to meet the needs of the project, which could compromise project productivity.success. Currently, the success. Currently, the success. Currently, the valuable and scarce. If the Team's expected workload exceeds bandwidth, the project ould experience bottlenecks. Optimization of the BHA Technical Team have project productivity.secs. Currently, the responsibilities associated with workload exceeds bandwidth, the project ould experience bottlenecks. Optimization of the BHA Technical Team's time is to the project productivity.secs. Currently, the responsibilities associated with workload exceeds bandwidth, the project ould experience bottlenecks. Optimization of the BHA Technical Team's time is to the project and plays a critical role which includes increased which inc | |
| heeds of the project, which could compromise project productivity. | |
| which could compromise project productivity. | |
| project productivity.expanded beyond their collective available bandwidth. in the project's ability to hit performance which includes increased collaboration with key RSMcould experience bottlenecks. Optimization of the BHA Technical Team's time is to the bandwidth of the BHA Technical Team, either by adding resources through new hires, or vendordoubling the RSM staff over the final stretch of development. This is a very positive start | |
| collective available bandwidth.of the BHA Technical Team's time is to the benefit of the project and plays a critical role addressing this bandwidth issue, which includes increased collaboration with key RSMof the BHA Technical Team's time is to the benefit of the project and plays a critical role targets and achieve the Phase 3 definition of collaboration with key RSMof the BHA Technical Team's time is to the benefit of the project's ability to hit performance targets and achieve the Phase 3 definition of collaboration with key RSMof the BHA Technical targets and achieve the Phase 3 definition of targets and achieve the Phase 3 definition of to resolve the Phase 3 definition of to resolve the Phase 3 definition of the Project should assess, whereof development. This is a very positive start to resolving the overall technical staffing issue. IV&V will continue to monitor moving forward. 08/31/2022 - Although BHAin the project's ability to hit performance the Project should assess, where | |
| IV&V notes that BHA began addressing this bandwidth issuebenefit of the project and plays a critical role in the project's ability to hit performance targets and achieve the Phase 3 definition of collaboration with key RSMTeam, either by adding resources through new hires, or vendor through new hires, or vendor torracts.to resolving the overall technical staffing issue. IV&V will continue to monitor moving forward. 08/31/2022 - Although BHAEIVAV notes that BHA began addressing this bandwidth issue which includes increased collaboration with key RSMbenefit of the project and plays a critical role the project should assess, where The Project should assess, whereto resolving the overall technical staffing issue. IV&V will continue to monitor moving forward. 08/31/2022 - Although BHAE | |
| addressing this bandwidth issue, in the project's ability to hit performance which includes increased collaboration with key RSM in the project's ability to hit performance targets and achieve the Phase 3 definition of contracts. issue. IV&V will continue to monitor moving forward. 08/31/2022 - Although BHA Image: Contract in the project in the | |
| which includes increased targets and achieve the Phase 3 definition of collaboration with key RSM contracts. forward. 08/31/2022 - Although BHA Image: Collaboration with key RSM done. The Project should assess, where leadership continued to meet during August | |
| collaboration with key RSM done. The Project should assess, where leadership continued to meet during August | |
| | |
| | |
| resources, and are working to possible, if there are to address the Project's resource shortages | |
| potentially change the structure responsibilities of the BHA and develop a mitigation plan to address | |
| of the Technical Team. Technical Team that can be this issue, no measurable progress was | |
| reassigned to other project staff. attained. A critical resource change for the | |
| The Project should evaluate current RSM Solutions Architect was | |
| where process inefficiencies can announced during August, which only | |
| be addressed and streamlined to serves to compound the existing resource | |
| possibly free up the BHA shortage issue and potentially impact | |
| Technical Team's availability. verall quality. IV&V will continue to | |
| The Project should consider the monitor this high criticality issue. | |
| formation of a first level resource 07/31/2022 - This high criticality finding | |
| team to triage/address continues to be the most impactful issue | |
| production defects in a timely affecting the Project. Helpdesk team | |
| manner, without disrupting new members brought in to assist and support | |
| development work. the deployment team continue to improve | |
| The Project should consider their skills and experience with the last | |
| procurement of an online training couple of releases and the recent mid-sprint | |
| 8.00 1/31/2020 The lack of a Product BHA does not have a single, A Roadmap is a tool that guides an agile IV&V understands that the 02/29/2020 - In February, the project Management Preliminary N/A Closed Ramesh, Vijaya | Product Roadmap |
| Roadmap that provides definitive Product Roadmap for project on what functionalities/features are Project is in the process of further defined the Phase 3 Product Concern (PCG) | aligned with |
| direction on the top Phase 3 that addresses the targeted to be built and released and when creating a Short Term; Mid Term, Roadmap and aligned it with the Phase 3 | Definition of Done |
| product features to be functionalities, features, and / users can have access to these and Long Term Roadmap. IV&V Definition of Done. IV&V recommends the | |
| delivered in the near or enhancements to be built in functionalities. Without a defined Roadmap recommends the Project project continually review and update both | |
| term (next 3 months), order to fully address BHA's the project may not be able to effectively complete this by the end of the Product Roadmap and Definition of | |
| midterm, and long term business needs. IV&V met with scope the top features to be released within February 2020 to understand if Done, adjusting as necessary. IV&V will | |
| could have an adverse RSM and BHA on this topic in Phase 3 and ensure the correct resources are there are any constraints continue to monitor the project's adherence | |
| impact on the Project's January, and notes that the available to accomplish the goal of each (resources, budget) that may to the Product Roadmap and progress | |
| scope and schedule. project is actively working to sprint and the Phase. hinder the project from releasing against it but is closing out this concern as | |
| address this concern. the needed of the February report. | |
| functionalities/features targeted | |
| for Phase 3 as documented in the | |
| Definition of Done. | |
| | |

FINAL IVV Findings Log Sep 2022 v1

| 9.00 | 3/31/2020 | The COVID-19 pandemic | On 3/23/2020, the Governor | DOH stakeholder participation in key | - IV&V recommends BHA to ramp | 04/30/2021 - The Project continues to | Project Management | Risk | Low | Closed | Darren Macdonald | The Project |
|-------|-----------|---------------------------|-----------------------------------|---|-----------------------------------|---|--------------------|-------------|-----|--------|------------------|---------------------|
| | | | issued a "stay at home, work | activities could be significantly hindered, not | | maintain its ability to operate with staff | | | | | | continues to |
| | | | from home order" that has | only by required remote work by DOH and SI | | working remotely, effectively overcoming | | | | | | maintain its abilit |
| | | hinder project activities | reduced state departments | staff, but also by the flood of activities that | work devices and tools and make | the "stay at home, work from home order" | | | | | | to operate with |
| | | and negatively impact | ability to be fully functional as | could occur as the department could become | every effort to help them to | that reduced BHA's ability to be fully | | | | | | staff working |
| | | - · · | the large majority of state | overwhelmed processing and providing | | functional in the office. The potential DDD | | | | | | remotely, |
| | | | | services due to the resulting economic | | and CAMHD budget challenges reported in | | | | | | effectively |
| | | 0 | from home/remotely at least | impacts to citizens. Some stakeholders may | MSTeams/Skype) - Completed- | March were also overcome during April, | | | | | | overcoming the |
| | | | until the end of April and some | be unable (due to stricter shutdown policies) | | providing fiscal relief to BHA. As such, IV&V | | | | | | "stay at home, |
| | | | offices may be completely shut | or unwilling to perform these activities | and DOH create a detailed, | is closing this finding.03/31/2021 - The | | | | | | work from home |
| | | | down until that time as well. | during this chaotic time. Planned SI on-site | documented risk mitigation | Project continued to maintain its ability to | | | | | | order" that |
| | | | Unclear if the order will extend | visits will also likely be changed to remote | - | operate with staff working remotely, while | | | | | | reduced BHA's |
| | | | beyond that date. | which could reduce the effectiveness of their | regularly and revised to address | COVID-related responsibilities continue to | | | | | | ability to be fully |
| | | | | project activities. Going forward most if not | the current state of the COVID-19 | | | | | | | functional in the |
| | | | | all project activities will more than likely be | threat and related impacts over | announced that potential furloughs and/or | | | | | | office. The |
| | | | | conducted remotely until this crisis passes. | the next 6 to 12 months - In | layoffs of State workers will no longer be | | | | | | potential DDD and |
| | | | | | Progress - IV&V recommends | necessary based on the signing of the | | | | | | CAMHD budget |
| | | | | | updates to the OCM Plan to | American Rescue Plan. IV&V has reduced | | | | | | challenges |
| | | | | | | the priority of this finding from Medium to | | | | | | reported in March |
| | | | | | updates to planned activities to | Low and will continue to monitor moving | | | | | | were also |
| | | | | | aid the organization through this | forward. 02/28/2021 - As reported in | | | | | | overcome during |
| | | | | | | January, there were no substantive changes | | | | | | April, providing |
| | | | | | | observed for this finding in February. The | | | | | | fiscal relief to |
| | | | | | | Project continued to maintain its ability to | | | | | | BHA. |
| | | | | | | operate with staff working remotely. IV&V | | | | | | 5 |
| | | | | | | continues to note that there may be | | | | | | |
| | | | | | | potential future budget actions by the | | | | | | |
| | | | | | | Governor due to projected State budget | | | | | | |
| 10.00 | 5/31/2020 | The lack of design | There were a couple incidents | If all requirements within a functional design | | 07/31/2020 - The Project continues to to | Sprint Planning | Preliminary | N/A | Closed | Darren Macdonald | This process |
| | | U | during May where the code | are not met, users could experience the | commenced) conducting | spend additional time on the designs of | | Concern | | | | change to spend |
| | | | promoted to production did not | inability to complete required processes, | technical design reviews for | complex user stories during June to ensure | | | | | | extra time on the |
| | | the promotion of | fully meet all requirements of | resulting in incomplete data collection and | complex user stories prior to | requirements and user story components | | | | | | design of complex |
| | | | associated user stories for | potential issues in service delivery. | development to ensure designs | were fully captured in design sessions. This | | | | | | user stories to |
| | | | CAMHD Progress Notes. The | , | are complete and all | process change has proven successful, and | | | | | | ensure that all |
| | | | components that were | | | as such, IV&V recommends closing this | | | | | | requirements are |
| | | | developed and implemented | | design are met. IV&V observed | concern.06/30/2020 - IV&V acknowledges | | | | | | represented has |
| | | | were functional, however the | | this activity has been | the Project Team continued to spend | | | | | | proven to be |
| | | | effort was complicated by | | implemented by DOH in the | additional time on the designs of complex | | | | | | successful. |
| | | | additional requirements being | | month of May. | user stories during June to ensure | | | | | | |
| | | | added during development that | | , | requirements and user story components | | | | | | |
| | | | necessitated additional changes | | | were fully captured in design sessions. IV&V | | | | | | |
| | | | to the design. IV&V will continue | | | will continue to monitor in July. | | | | | | |
| | | | to monitor the design review | | | | | | | | | |
| | | | activity for large user stories | | | | | | | | | |
| | | | moving forward | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | I | L | I | | | 1 | 1 | L |

| 11.00 | 7/31/2020 DDD Project resource | The user adoption and training | The significance and impact of OCM car | IV/8// recommonds that BUIA does | 02/21/2021 The DDD staff who've have | Project Management | Risk | N/A | Closed | Darren Macdonald | |
|-------|--------------------------------|--|--|---|--|--------------------|-------|--------|--------|------------------|-------------------|
| 11.00 | shortages may have a | The user adoption and training efforts are hampered based on | The significance and impact of OCM can never be understated. It is clearly a best | | 03/31/2021 - The DDD staff who've been part of the review process are pleased with | Project Management | RISK | IN/A | Closed | Darren Macdonald | who've been part |
| | continued negative | staffing shortages. DDD has | practice that best that all staff utilize the | | the quality of the videos produced within | | | | | | of the review |
| | effect on user adoption, | stated that its users have been | solution in the same manner. Variations in | | the toolset and have determined that the | | | | | | process are |
| | training, and overall | found to not be utilizing the | how the system is utilized by its users is likely | | toolset is a very helpful training tool for DDD | | | | | | pleased with the |
| | OCM activities. | system to its fullest extent in | to cause variations in data collection and | | staff and providers. As such, IV&V is closing | | | | | | quality of the |
| | | terms of system workflow, | analytical efforts using the data collected. | - | this finding.02/28/2021 - Training videos | | | | | | videos produced |
| | | provide their insights and input, | | and adding staff as needed to | using the new toolset were nearing | | | | | | within the toolse |
| | | follow up, etc. To assist in OCM | | support OCM and technical | completion by the end of February. DOH is | | | | | | and have |
| | | activities, DDD has defined the | | efforts. IV&V recommends DOH | currently reviewing the drafts of the second | | | | | | determined that |
| | | need for an interactive training | | perform a detailed investigation | set of videos and work is progressing well. | | | | | | the toolset is a |
| | | tool to support Inspire. | | of the specific variations as to | IV&V will continue to monitor this finding | | | | | | very helpful |
| | | | | how the system is currently being | until DDD has had sufficient time to | | | | | | training tool for |
| | | | | used by the user community. | determine the overall quality of the training | | | | | | DDD staff and |
| | | | | Consequently, users would be | work products and whether the new toolset | | | | | | providers. |
| | | | | provided with constructive | is addressing user adoption and staffing | | | | | | |
| | | | | feedback on how the system | shortages for these task efforts. 01/31/2021 | | | | | | |
| | | | | should be utilized where gaps | Training design activities using the | | | | | | |
| | | | | exist. This will likely lead to | interactive training toolset commenced in | | | | | | |
| | | | | additional refresher training to | January and has attained good progress. The | | | | | | |
| | | | | close identified system | use of this tool is expected to provide some | | | | | | |
| | | | | knowledge gaps. | bandwidth relief for DDD staff members | | | | | | |
| | | | | | responsible for onboarding new staff | | | | | | |
| | | | | | members and providers, and to provide | | | | | | |
| | | | | | refresher training to existing staff members. | | | | | | |
| | | | | | IV&V will continue to monitor this | | | | | | |
| | | | | | finding12/31/2020 - The contract to procure | | | | | | |
| | | | | | the interactive training toolset for | | | | | | |
| 2.00 | 8/31/2020 PII/PHI data in non- | | Failure to secure PII/PHI data leaves the | | 09/30/2022 - The Security Assessment is | Project Management | Issue | Medium | Open | Darren Macdonald | |
| | production | PII/PHI data currently exist in a | organization open to highly targeted social | limiting the volume of | pending approval by the ASO. RSM is | | | | | | |
| | environments | non-production environment to | | | planning to address this issue as part of the | | | | | | |
| | | meet project needs. Generally | and loss of client trust and loyalty. | and access necessary to support | backlog scope for R3.28. IV&V will continue | | | | | | |
| | | this is not a good security | | | to monitor this medium criticality issue. | | | | | | |
| | | practice as the presence of | | help minimize this risk. | 08/31/2022 - As reported in previous | | | | | | |
| | | PII/PHI data in non-production | | IV&V recommends if production | months, there were no substantive changes | | | | | | |
| | | environments increases the | | data is necessary in any non- | to this finding identified in August. The | | | | | | |
| | | potential for theft, loss or | | | Security Assessment will commence after | | | | | | |
| | | exposure thus increasing the | | DOH establishes a plan for | the associated contracts are executed and it | | | | | | |
| | | organization's risk. Failure to | | | is unclear when this will occur. BHA plans to | | | | | | |
| | | secure PII/PHI data leaves the | | of the PII/PHI data, including the potential masking of data. | work with RSM to consider solutions used on other projects for managing the PII/PHI | | | | | | |
| | | organization open to highly targeted social engineering | | IV&V recommends that DOH | data in non-production environments. IV&V | | | | | | |
| | | attacks, heavy regulatory fines, | | mitigates this finding by | will continue to monitor this medium | | | | | | |
| | | and loss of client trust and | | minimizing and/or masking | criticality issue. | | | | | | |
| | | loyalty. | | | 07/31/2022 - As reported in previous | | | | | | |
| 1 | | | | provident accordinated note | s, s2, 2022 As reported in previous | | 1 | | 1 | | |
| | | - // | | production environments | months, there were no substantive changes | | | | | | |
| | | | | production environments. | months, there were no substantive changes | | | | | | |
| | | | | production environments. | to this finding identified during July. The | | | | | | |
| | | | | production environments. | to this finding identified during July. The Security Assessment will commence after | | | | | | |
| | | | | production environments. | to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it | | | | | | |
| | | | | production environments. | to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it is unclear when this will occur. BHA plans to | | | | | | |
| | | | | production environments. | to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it is unclear when this will occur. BHA plans to work with RSM to seek proposed solutions | | | | | | |
| | | | | production environments. | to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it is unclear when this will occur. BHA plans to work with RSM to seek proposed solutions used on other projects for managing the | | | | | | |
| | | | | production environments. | to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it is unclear when this will occur. BHA plans to work with RSM to seek proposed solutions used on other projects for managing the PII/PHI data in non-production | | | | | | |
| | | | | production environments. | to this finding identified during July. The Security Assessment will commence after the associated contracts are executed and it is unclear when this will occur. BHA plans to work with RSM to seek proposed solutions used on other projects for managing the | | | | | | |

| 13.00 | 8/31/2020 Project not able to | The Project recently deployed | The unavailability of activity logs may | IV&V recommends that DHS | 03/31/2021 - Per BHA, this finding is no | Release/Deployment P | Risk | N/A | Closed | Darren Macdonald | Finding has been |
|-------|-----------------------------------|---|---|---|---|----------------------|-------|--------|--------|------------------|------------------|
| | access Activity Logs | audit log functionality into | hamper the investigation of future security | continues to collaborate with | longer an issue and recommends closure. | | | | | | resolved. |
| | , , , | production whereby these logs | breaches. | Microsoft until the activity | IV&V is closing this finding.02/28/2021 - | | | | | | |
| | | can be accessed and exported as | | logging feature is available in all | BHA continued this effort in February | | | | | | |
| | | needed. However, IV&V was | | BHA non-production | despite a workaround being necessary from | | | | | | |
| | | made aware access to activity | | environments. | Microsoft due to a layering issue. Based on | | | | | | |
| | | logging for users with just view | | | continued delays, it is unclear when this | | | | | | |
| | | permissions will not be available | | | important security activity will be | | | | | | |
| | | from Microsoft in the public | | | completed. IV&V will continue to monitor | | | | | | |
| | | sector environment until the | | | this finding. (Per Kamu, this status | | | | | | |
| | | end of September 2020. The | | | information did not correctly reflect the | | | | | | |
| | | unavailability of these specific | | | issue as the layering issue has no relation to | | | | | | |
| | | activity logs could potentially | | | the activity logs.)01/31/2021 - The | | | | | | |
| | | hamper the investigation of | | | implementation effort for this activity | | | | | | |
| | | future security events until | | | moved forward in January. Some of the | | | | | | |
| | | implemented. | | | entities will have activity logging completed | | | | | | |
| | | Implemented. | | | | | | | | | |
| | | | | | in the planned early February Release 3.12, | | | | | | |
| | | | | | while others will be delayed until Release | | | | | | |
| | | | | | 3.13. IVV will continue to monitor. | | | | | | |
| | | | | | 12/31/2020 - The planning effort for | | | | | | |
| | | | | | identifying the entities that will require | | | | | | |
| | | | | | activation of the new activity logs was | | | | | | |
| | | | | | completed during December. The | | | | | | |
| | | | | | implementation effort has been prioritized | | | | | | |
| | | | | | for inclusion in Release 3.12. IV&V will | | | | | | |
| | | | | | continue to monitor this finding until | | | | | | |
| | | | | | implemented. 11/30/2020 - The DOH | | | | | | |
| | | | | | technical team has commenced the | | | | | | |
| 14.00 | 9/30/2020 Due to multiple quality | System defects identified in | The identified quality issues have negatively | Evaluate existing project staff | 09/30/2022 - R3.26 was deployed to | Project Management | Issue | Medium | Open | Darren Macdonald | |
| | concerns, the project | August that affected claims | affected DOH billing processes and DOH has | skills and experience level to | production on 9/1/2022. No post- | | | | | | |
| | may continue to face | were due to multi-faceted | stated these are the most impactful defects | ensure they meet BHA support | deployment defects were identified | | | | | | |
| | impactful system | quality issues were individually | discovered to date. | requirements. | following this release which is the first | | | | | | |
| | defects. | addressed during this reporting | | Perform revenue neutrality fiscal | occurrence in at least the last five releases. | | | | | | |
| | | period. IV&V notes that there is | | balance testing on a quarterly | IV&V will continue to monitor this medium | | | | | | |
| | | one remaining defect still being | | basis to ensure revenues are as | exposure issue. | | | | | | |
| | | evaluated that affects a limited | | expected. | 08/31/2022 - A formal Root Cause Analysis | | | | | | |
| | | number of claims. Overall, the | | Assign dedicated resources to | (RCA) was conducted in early August for | | | | | | |
| | | Project Team has responded | | provide oversight of CAMHD | R3.25 critical defects. Most of the critical | | | | | | |
| | | with a commitment to increase | | Fiscal Processes. | defects were attributed to deployment | | | | | | |
| | | project quality and is in the | | Monitor implemented | issues which require additional analysis to | | | | | | |
| | | process of identifying | | improvements for effectiveness. | determine the source of these issues. IV&V | | | | | | |
| | | improvements to associated | | | will continue to monitor this medium | | | | | | |
| | | testing processes. These | | RCA in collaboration with RSM | criticality finding. | | | | | | |
| | | currently include:Performing | | after all future release | 07/31/2022 - As with the previous release, | | | | | | |
| | | Revenue Neutrality Testing to | | | the Project encountered quality issues as | | | | | | |
| | | ensure expected revenue | | improvement. | five (5) post-production defects were | | | | | | |
| | | streams are largely unchanged | | BHA and RSM to collaborate on | identified for R3.25 which was deployed on | | | | | | |
| | | from one period to the next. | | the necessary revisions to the | 7/21/2022. A formal Root Case Analysis | | | | | | |
| | | Conducting System Integration | | submitted design deliverables to | (RCA) is planned for the first week in August | | | | | | |
| | | Testing, User Acceptance | | increase level of detail and | and it remains uncertain if coding, | | | | | | |
| | | LICATUS, USELAUCEULDICE | 1 | | deployment, or other quality issues were | | | | | | |
| | | - · | | quality | | | | | | | |
| | | Testing, Performance Testing, | | quality. | | | | | | | |
| | | Testing, Performance Testing, and Regression Testing for | | Perform typical project testing | the potential cause for these defects. To | | | | | | |
| | | Testing, Performance Testing, and Regression Testing for Release 3.10. IV&V will | | Perform typical project testing including System Integration, | the potential cause for these defects. To address these defects, two of the critical | | | | | | |
| | | Testing, Performance Testing, and Regression Testing for Release 3.10. IV&V will continue to monitor the testing | | Perform typical project testing including System Integration, User Acceptance, Performance, | the potential cause for these defects. To address these defects, two of the critical items was deployed in a Mid Sprint | | | | | | |
| | | Testing, Performance Testing, and Regression Testing for Release 3.10. IV&V will | | Perform typical project testing including System Integration, | the potential cause for these defects. To address these defects, two of the critical | | | | | | |

| 15.00 | 10/5/2020 | | Default | Default | | Terrested KT | Destination | N/A | Closed | Demon Mandamalal | The survey is stated as a |
|-------|---|----------------------------------|--|----------------------------------|---|--------------------|-------------|------|--------|------------------|---------------------------|
| 15.00 | 10/5/2020 Usage of Semantics and IDM for development | | Default | | 01/31/2021 - The project has made great | Targeted KT | Preliminary | IN/A | Closed | Darren Macdonald | |
| | | obtain more targeted | | | strides addressing this concern. A | | Concern | | | | made good |
| | and ongoing | knowledge transfer of both the | | | Semantics Layer KT session was conducted | | | | | | progress |
| | maintenance of the | Semantics Reporting and IDM | | | on 1/29/21 and multiple IDM and Semantic | | | | | | establishing and |
| | system requires BHA to | tools. IV&V will continue to | | | Layer sessions has been scheduled in | | | | | | initial execution of |
| | take a proactive | monitor this concern. | | | February. IV&V is closing this finding as we | | | | | | the IDM and |
| | approach to support of | | | | no longer view this item as a | | | | | | Semantics Layer |
| | these tools. | | | | concern.12/31/2020 - IV&V is aware that an | | | | | | KT plan. |
| | | | | | overview of the Semantics Layer KT session | | | | | | |
| | | | | | was held on 12/16/20. The planning effort | | | | | | |
| | | | | | will result in additional Semantic Layer and | | | | | | |
| | | | | | IDM KT sessions in the coming months. | | | | | | |
| | | | | | IV&V will continue to monitor this | | | | | | |
| | | | | | finding.11/30/2020 - The project conducted | | | | | | |
| | | | | | two high-level overview sessions of the | | | | | | |
| | | | | | Semantic Layer Reporting tools during | | | | | | |
| | | | | | November. One session was focused on the | | | | | | |
| | | | | | overall Semantic Layer, and the second | | | | | | |
| | | | | | session was focused on Semantic Layer | | | | | | |
| | | | | | Security. Additional targeted Knowledge | | | | | | |
| | | | | | Transfer sessions on the Semantic Layer | | | | | | |
| | | | | | tools will need to be provided by RSM; | | | | | | |
| | | | | | however, these have not been scheduled. | | | | | | |
| | | | | | IV&V will continue to monitor this | | | | | | |
| | | | | | finding.10/31/2020 - The project intends to | | | | | | |
| | | | | | obtain more targeted knowledge transfer | | | | | | |
| | | | | | for both the Semantics Reporting and IDM | | | | | | |
| | | | | | tools and will be planning and scheduling | | | | | | |
| 16.00 | 10/27/2020 The bandwidth of | CAMHD has been provided with | CAMDH Leadership participation in key | | 06/30/2021 - As anticipated, the CAMHD | Project Management | Risk | N/A | Closed | Darren Macdonald | CAMHD |
| 10.00 | CAMHD Leadership is | | | | | | KISK | N/A | Closed | | Leadership time |
| | being hampered by | an approval to commence | activities could be significantly hindered by the flood of activities that could occur as the | for opportunities to augment the | Leadership time dedicated to the Project has returned to normal and expected levels. As | | | | | | dedicated to the |
| | . | | | | - | | | | | | |
| | planning tasks and | | department assesses expansion of this | Phase 4 and M&O work. | such, IV&V is closing this finding. | | | | | | project has |
| | activities for assessing | & HSH. CAMHD Leadership | project to the balance of divisions. | | 05/31/2021 - As anticipated, CAMHD | | | | | | returned to |
| | project expansion to | currently spends 25% of their | | | Leadership time spent on efforts outside of | | | | | | normal. |
| | other divisions. | available time dedicated to this | | | the Inspire Project reduced during May. This | | | | | | |
| | | planning effort. | | | level of effort decreased to approximately | | | | | | |
| | | | | | 10% of available time in May, largely for the | | | | | | |
| | | | | | planning of the Max/Inspire divisional | | | | | | |
| | | | | | expansion effort. As such, IV&V is reducing | | | | | | |
| | | | | | the priority of this finding from Medium to | | | | | | |
| | | | | | Low and will continue to | | | | | | |
| | | | | | monitor.04/30/2021 - CAMHD Leadership | | | | | | |
| | | | | | time spent on efforts outside of the INSPIRE | | | | | | |
| | | | | | Project continued to increase during early | | | | | | |
| | | | | 1 | April but has decreased at the end of the | 1 | 1 | 1 | 1 | | |
| | | | | | April but has decreased at the end of the | | | | | 1 | |
| | | | | | month. Approximately 60-70% of | | | | | | |
| | | | | | | | | | | | |
| | | | | | month. Approximately 60-70% of Leadership time was spent on Phase 4 | | | | | | |
| | | | | | month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new | | | | | | |
| | | | | | month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The | | | | | | |
| | | | | | month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to | | | | | | |
| | | | | | month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as | | | | | | |
| | | | | | month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as DOH has hired a Project Manager in April | | | | | | |
| | | | | | month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as DOH has hired a Project Manager in April who will be dedicated to the Vaccine | | | | | | |
| | | | | | month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as DOH has hired a Project Manager in April who will be dedicated to the Vaccine Registration Project, instead of BHA | | | | | | |
| | | | | | month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as DOH has hired a Project Manager in April who will be dedicated to the Vaccine | | | | | | |

| 17.00 | 11/20/2020 | Due to sea distant | | Default | D(O) (as a second s | 00/24/2024 The second | Deleges /Depleyment D | 1 | N1/A | Classed | Demon Mereleneld | The sector of |
|-------|------------|--------------------------|--|--|---|---|-----------------------|-------|------|---------|------------------|-------------------|
| 17.00 | | | The IDM and Semantic layer efforts have experienced several | Default | IV&V recommends the project to | 08/31/2021 -The number of issues requiring assistance from Microsoft continues to | Release/Deployment P | Issue | N/A | Closed | Darren Macdonald | interactions |
| | | | delays attributable to issues | | continue to monitor the status of | remain limited, and as such, IV&V is closing | | | | | | needed with |
| | | | escalated to Microsoft. The | | - | | | | | | | Microsoft remains |
| | | | issues have ranged from | | to escalate the priority of these tickets as deemed necessary. | this finding. 07/31/2021 - While the number of issues requiring assistance from | | | | | | low and |
| | | - | administrative / communication | | lickets as deemed necessary. | Microsoft remains limited, interactions with | | | | | | manageable. This |
| | | | (entering issues into the | | | Microsoft are increasing again due to the | | | | | | condition is no |
| | | | Commercial support instance vs | | | interface functionality planned for | | | | | | longer impeding |
| | | | the Government Cloud support | | | implementation in the current and | | | | | | project progress. |
| | | | instance), to several key | | | remaining DD&I releases. The FHIR API | | | | | | project progress. |
| | | | technical issues requiring | | | interface has required multiple interactions | | | | | | |
| | | | assistance to resolve. To date, | | | with Microsoft that have resulted in | | | | | | |
| | | | these support needs have added | | | unplanned schedule slippages for the FHIR | | | | | | |
| | | | over a month to the IDM and | | | API implementation. IV&V will continue to | | | | | | |
| | | | Semantic Layer project | | | monitor this finding. 06/30/2021 - The | | | | | | |
| | | | schedules. | | | number of issues requiring assistance from | | | | | | |
| | | | serieddiesi | | | Microsoft continues to be low with only two | | | | | | |
| | | | | | | known items open. As such, IV&V is | | | | | | |
| | | | | | | reducing the priority of this finding to low | | | | | | |
| | | | | | | and will continue to monitor.05/31/2021 - | | | | | | |
| | | | | | | There is only one open Microsoft ticket | | | | | | |
| | | | | | | affecting the attachment of Claims to the | | | | | | |
| | | | | | | Batch. As such, IV&V is reducing the | | | | | | |
| | | | | | | criticality of this finding from High to | | | | | | |
| | | | | | | Medium and will continue to monitor. | | | | | | |
| | | | | | | 04/30/2021 - BHA continues to work with | | | | | | |
| | | | | | | Microsoft on technical issues as they arise in | | | | | | |
| | | | | | | the Government Community Cloud (GCC) | | | | | | |
| 18.00 | 12/31/2020 | Due to on-going | There have been several defects | Repeatable documented release and | Ensure there are adequate and | 09/30/2022 - The R3.26 release was | Release/Deployment P | Issue | High | Open | Darren Macdonald | |
| | | deployment processes | pushed to production with | deployment will help ensure that mistakes | qualified resources to support the | deployed to production on 9/1/2022, using | | | | | | |
| | | and technical execution | Phase 3 releases. Some of the | are minimized, and that functionality is not | current deployment processes. | the patch deployment methods. The | | | | | | |
| | li | issues, the Project may | defects introduced to | mistakenly deprecated when deployments | This may require the support | upcoming R3.27 and R3.28 releases will | | | | | | |
| | | continue to encounter | production have been narrowed | take place. | from RSM resources to provide | require full solution upgrades (FSU) for | | | | | | |
| | | defects and challenges | down to environmental | | assistance and knowledge | deployment based on their entity contents. | | | | | | |
| | li | in meeting projected | promotional activities. In these | | transfer for some of the more | FSUs have historically been quite | | | | | | |
| | 1 | timelines for production | instances, the DEV and TEST | | complex deployment | challenging for the project, inferring that | | | | | | |
| | i | and non-production | environments were not in sync | | components. | this may increase risk to these releases. To | | | | | | |
| | | deployments. | with the production | | Work in collaboration with RSM | help mitigate the risk, BHA continues to | | | | | | |
| | | | environment (missing business | | to establish a transition plan for | collaborate with Microsoft and RSM on | | | | | | |
| | | | rules, missing components, | | DOH to assume all deployment | deployment best practices. While BHA | | | | | | |
| | | | missing dependencies, etc.). IVV | | activities to ensure complete | continues to increase their learning, they | | | | | | |
| | | | is aware that DOH staff | | ownership of these processes. | acknowledge that there are still several | | | | | | |
| | | | shadowed RSM staff for all | | This should assist with | unknowns in terms of applying those | | | | | | |
| | | | deployment releases during | | consistency in approach and | practices. The team's knowledge gaps for | | | | | | |
| | | | Phase 2 with RSM providing | | execution going forward. | repeatable deployment activities are not | | | | | | |
| | | | instruction and DOH staff | | | fully understood. The R3.27 FSU was | | | | | | |
| | | | physically executing the tasks | | on best practices that BHA could | successfully moved to the test environment | | | | | | |
| | | | and activities via keyboard. For | | employ to support deployment. | prior to the end of September, and the | | | | | | |
| | | | Phase 3, it is unclear whether a | | Request the assistance of the | production promotion is planned for mid- | | | | | | |
| | | | complete, up to date, and | | RSM Solution Architect in | October. IV&V will continue to monitor this | | | | | | |
| | | | documented deployment script, | | reviewing and correcting issues | high exposure issue. | | | | | | |
| | | | or deployment notes, are being | | associated with consistency of | 08/31/2022 - The current R3.26 release was | | | | | | |
| | | | utilized by BHA for deployment | | the configurations across | planned to be a Full Solution Upgrade (FSU) | | | | | | |
| | | | activities. | | environments, ensuring that | but instead the technical team has again | | | | | | |
| | | | | | the test environment is capable | pivoted to the use of patch deployments. | | | | | | |
| | 1 | | | | of testing ALL functions of any | The project is currently planning to promote | | | | | | |

| 19.00 | 3/28/2021 The pending RSM contract expiration will require BHA to perform transition of the D365 solution to the State prior to contract end. | currently planned to complete in September 2021. BHA will need a transition plan to ensure that it has all knowledge transfer and is fully capable of managing all aspects of supporting and maintaining the D365 solution | DOH needs to be in a position to completely stand on its own without the assistance of vendor support by fall of 2021. If DOH is not in a position to solely take on the development of user stories, testing, regression testing, deployment, and the support and maintenance of the entire system, there is a risk that environment stability may be challenged. | ensure that DOH has the knowledge, skills, and capabilities to perform all aspects of the project prior to September 2021. If the knowledge transfer takes more time than planned, consider developing, testing, and promoting less releases in the summer months as the transition off of vendor support approaches. | 05/31/2021 - Per CAMHD, the RSM contract amendments to extend the DD&I effort (Mod 5) to the end of December 2021 and also provide M&O services (Mod 6) through May 2022 were fully executed in May. IV&V is closing this preliminary concern. 04/30/2021 - The RSM contract amendment is still pending approval. This amendment will extend the DD&I effort (Mod 5) to the end of December 2021 and will also provide M&O services (Mod 6) through May 2022. Mod 5 is expected to be approved in May 2021. This will delay the near-term need for a Transition Plan until first quarter 2022. IV&V will continue to monitor this finding. | • | Preliminary Concern | N/A | Closed | The RSM amendments were fully executed in May 2021. |
|-------|--|--|--|---|--|--------------------|------------------------|-----|--------|--|
| 20.00 | 4/30/2021 The DDD Project Manager will be on leave and unavailable to the project starting in May. | duties on behalf of DDD and her absence may cause an increased level of risk to the project. DDD has commenced planning efforts | The DDD Project Manager is critical to all daily project interactions affecting DDD from a functional and managerial perspective. If her duties are not re-assigned to capable staff prior to her planned absence, DDD will be in a challenged position to effectively contribute to at least the next several releases. | continue to look for opportunities to augment the existing technical staff in order to fully support current DDI project work.2) IV&V recommends DDD to consider augmenting their current PM/Business staff in order to allow their technical staff to focus on technical duties. | 08/31/2021 - The DDD Project Manager returned from her absence, alleviating the DDD technical staff bandwidth/workload challenges. IV&V is closing this finding.07/31/2021 - The DDD technical staff continued to face bandwidth/workload challenges during the month of July. Fortunately, the DDD Project Manager is scheduled to return to work on 8/2/2021 allowing the technical staff to return fully to their technical responsibilities.06/30/2021 - The absence of the DDD Project Manager continues to cause bandwidth/workload challenges for DDD technical staff. Time available for typical DDD CRM assignments was limited in June due to this resource constraint. IV&V has promoted this finding from a Preliminary Concern to a Medium criticality issue and will continue to monitor. 05/31/2021 - The highest priority tasks and activities typically accomplished by the DDD Project Manager have been re-assigned to other DDD staff. IV&V notes that this results in some level of bandwidth/workload challenges for DDD technical staff. | Project Management | Issue | N/A | Closed | The DDD Project Manager has returned from her leave, fully mitigating this issue. |

| 21 00 | 6/20/2021 | The continued we have of | Deleges defeat matrice for under a d | Deduce the energy of south | 00/20/2022 The defect reserves (1102 | Drojoct Management | lagua | Modium | Onon | Daman Macdanalal | |
|-------|---------------------------------|---|---|--|--|--------------------|-------|--------|------|------------------|--|
| 21.00 | 6/30/2021 Unplanned rework may | The continued volume of | Release defect metrics for unplanned rework | | 09/30/2022 - The defect percentage of USPs | Project Wanagement | Issue | Medium | Open | Darren Macdonald | |
| | have an impact on | unplanned rework may have an | has been 30-40% of the total USPs for the | rework by continuing to focus on | deployed to production climbed again in | | | | | | |
| | delivering DDI | impact on delivering planned | last few releases. | quality improvement measures. | September. R3.26 had an estimated velocity | | | | | | |
| | | | | Strive for defect performance | of 90 USPs, and 77 USPs were promoted to | | | | | | |
| | of the DDI period. | possible DDI releases remaining | | metric not to exceed 20% of all | production. Thirty-two percent (32%) of all | | | | | | |
| | | for completion. | | user story points in any given | USPs in R3.26 were attributable to defects, | | | | | | |
| | | | | release. | while 68% of the total USPs were associated | | | | | | |
| | | | | | with planned user stories and requests. This | | | | | | |
| | | | | | September metric falls short of the target of | | | | | | |
| | | | | | no more than 20% of the total USPs | | | | | | |
| | | | | | promoted during the month. IV&V will | | | | | | |
| | | | | | continue to monitor this medium criticality | | | | | | |
| | | | | | finding. | | | | | | |
| | | | | | 08/31/2022 - There were no planned | | | | | | |
| | | | | | releases for the month of August and | | | | | | |
| | | | | | consequently no velocity or defect metrics | | | | | | |
| | | | | | to report this month. IV&V will report out | | | | | | |
| | | | | | these metrics in our September status | | | | | | |
| | | | | | report. | | | | | | |
| | | | | | 07/31/2022 - R3.25 was deployed on | | | | | | |
| | | | | | 07/21/2022 and the associated defect | | | | | | |
| | | | | | percentage significantly improved from | | | | | | |
| | | | | | previous releases. The percentage dropped | | | | | | |
| | | | | | to 15%, well within the target of 20%. IV&V | | | | | | |
| | | | | | will continue to monitor this medium | | | | | | |
| | | | | | criticality finding. | | | | | | |
| | | | | | 06/30/2022 - The defect percentages for | | | | | | |
| | | | | | R3.24 were improved in June; however, the | | | | | | |
| 22.00 | 7/30/2021 The project schedules | The FHIR interface and CAFAS | Weekly RSM Status Report | Extend the current DDI timeframe | 09/30/2022 - 'Big Boulder' prioritized | Project Management | Issue | High | Open | Darren Macdonald | |
| | for 'big boulder' | interface are currently at risk of | | to allow for the completion of | features/functionality implementation | | | | | | |
| | interface functionality | not making the planned R3.17 | | 'big boulder' interfaces | schedules continued to slide and change | | | | | | |
| | development are | release. The Single Sign on | | functionality development. | priority during September. While staffing | | | | | | |
| | slipping. | | | | priority during September. While starting | | | | | | |
| | | components of the HHIE | | BHA to add more resources to | was increased, velocity fell far short of | | | | | | |
| | | components of the HHIE interface are also currently at | | BHA to add more resources to support the development of "big | | | | | | | |
| | | | | | was increased, velocity fell far short of | | | | | | |
| | | interface are also currently at | | support the development of "big | was increased, velocity fell far short of expectations for R3.27. The planned project | | | | | | |
| | | interface are also currently at risk of not making the planned | | support the development of "big | was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, | | | | | | |
| | | interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs | | support the development of "big | was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total | | | | | | |
| | | interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already | | support the development of "big | was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to | | | | | | |
| | | interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate | | support the development of "big | was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional | | | | | | |
| | | interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned | | support the development of "big | was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the | | | | | | |
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| | | interface are also currently at risk of not making the planned R3.17 release, and the ADT/Labs components have already missed needed intermediate target dates for the planned R3.17 release. The Project will need to re-assess the planned | | support the development of "big | was increased, velocity fell far short of expectations for R3.27. The planned project velocity was 330 USPs for R3.27, however, the latest statistics indicate that the total will be short of 100 USPs. Velocity is likely to increase moving forward as the additional RSM staff ramps up and adjusts to the project's requirements and expectations. | | | | | | |
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FINAL IVV Findings Log Sep 2022 v1

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|-------|----------------------------------|--|----------------------------------|------------------------------------|---|--------------------|-------|------|--------|---------------------------------------|--|
| 23.00 | 7/31/2021 The current DDI period | | Existing contractual agreements. | Obtain IAPDU approval from | 02/28/2022 - The IAPDU was approved by | Project Management | Issue | Low | Closed | Darren Macdonald | |
| | expires at the end of | Model shows a planned | | CMS. | Federal partners in early February, which | | | | | | |
| | December 2021 which | reduction in RSM resources | | | extended the DD&I effort through October | | | | | | |
| | will require RSM to | support starting in September | | | 2022. Transition from RSM will not be | | | | | | |
| | transition of the D365 | 2021 through December 2021. | | | required until approximately August 2022. | | | | | | |
| | solution to the State | Prior to this timeframe, BHA | | | Based on the extended time being available | | | | | | |
| | prior to contract end. | should commence the | | | for transition efforts, IV&V is closing this | | | | | | |
| | | development of a transition plan | | | finding. | | | | | | |
| | | to ensure the appropriate | | | 01/31/2022 - There were no substantive | | | | | | |
| | | replacement State resources are | | | changes to this finding observed during | | | | | | |
| | | identified/secured and the | | | January as BHA continues to pursue CMS | | | | | | |
| | | necessary knowledge transfer | | | Federal funding approval for extending | | | | | | |
| | | sessions are planned and | | | DD&I through October 2022 followed by | | | | | | |
| | | executed with RSM. BHA will | | | M&O through September 2024. IV&V will | | | | | | |
| | | need to be sure they are ready | | | continue to monitor this finding until | | | | | | |
| | | to take on the development of | | | Federal funding approved. | | | | | | |
| | | user stories, testing, | | | 12/31/2021 - There were no substantive | | | | | | |
| | | | | | changes to this finding observed during | | | | | | |
| | | deployment, and the support and maintenance of the entire | | | 5 5 | | | | | | |
| | | | | | December as BHA continues to pursue CMS | | | | | | |
| | | system by the end of the DDI | | | Federal funding approval for extending | | | | | | |
| | | period (December 2021). | | | DD&I through October 2022 followed by | | | | | | |
| | | | | | M&O through September 2024. IV&V will | | | | | | |
| | | | | | continue to monitor this finding until | | | | | | |
| | | | | | Federal funding approved. | | | | | | |
| | | | | | 11/30/2021 - There were no substantive | | | | | | |
| | | | | | changes to this finding observed during | | | | | | |
| | | | | | November. In late October, PAC approved | | | | | | |
| | | | | | the funding request for extending DD&I | | | | | | |
| 24.00 | 10/29/2021 The R3.19 Solution | Solution upgrades are essential | Daily Scrum Reporting | Ensure there are adequate and | 11/30/2021 - R3.19 was promoted to | Project Management | Issue | High | Closed | Darren Macdonald | Technical issue |
| | Upgrade technical issues | for keeping the system current | | qualified resources to support the | production as an FSU on 11/14/2021 and | | | | | | resolved and were |
| | are delaying the | in order to gain access to new | | current Solution Upgrade | access to the development and test | | | | | | attributed to the |
| | implementation of the | features that enhance | | processes. This may require the | environments was again restored. Because | | | | | | following: |
| | release and the ability | productivity, eliminate | | support from RSM resources to | the solution upgrade was the first in five (5) | | | | | | Import of |
| | for staff to develop and | bottlenecks and govern sensitive | | provide assistance and | releases, the deployment process took | | | | | | solution taking 1-2 |
| | test code. | information. The current R3.19 | | knowledge transfer. | approximately 12 hours. This issue did have | | | | | | hours, timed out |
| | | solution upgrade work efforts | | As appropriate, consult with RSM | an impact both on the amount of DDI | | | | | · · · · · · · · · · · · · · · · · · · | |
| | | that includes patches for 5 | | | | | | | | 1 | in PROD, so had to |
| | | | | on best practices that BHA could | functionality (reduced) included in | | | | | | in PROD, so had to restore and then |
| | 1 | releases (R3.15-R3.19) is causing | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | | restore and then |
| | | releases (R3.15-R3.19) is causing technical issues. As a result. | | employ to support the Solution | downstream releases and cost implications. | | | | | | restore and then restart from a |
| | | technical issues. As a result, | | | downstream releases and cost implications. IV&V has closed this finding, as it was | | | | | | restore and then restart from a previous point in |
| | | technical issues. As a result, R3.19+ development and testing | | employ to support the Solution | downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on | | | | | | restore and then restart from a previous point in time backup |
| | | technical issues. As a result, R3.19+ development and testing work is hampered until these | | employ to support the Solution | downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021. | | | | | | restore and then restart from a previous point in time backup • Errors are vague |
| | | technical issues. As a result, R3.19+ development and testing | | employ to support the Solution | downstream releases and cost implications. IV&V has closed this finding, as it was alleviated by the R3.19 release on 11/14/2021. 10/31/2021 - Due to the current R3.19 | | | | | | restore and then restart from a previous point in time backup • Errors are vague – sometimes |
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| 25.00 | 6/30/2022 The lack of a formal project governance structure is impeding decision-making procedures and overall leadership cohesiveness. | governance can lead to: •Untimely and/or uninformed | The strategic goals and objectives of CAMHD and DDD differ but both divisions need equal and fair representation of how work is being prioritized and performed. | governance structure to allow CAMHD, DDD, and other divisions to 1) have a single point of accountability, 2) ensure the right | governance process for the project. IV&V will continue to monitor the governance activities. 08/31/2022 - A Project Charter has been developed but it is unclear to IV&V when it will be approved by the Executive Steering | | Issue | Medium | Work In Progress | Vic Dudoit | |
|-------|--|--|--|--|--|--------------------|------------------------|--------|------------------|------------|--|
| 26.00 | 7/31/2022 The inability for BHA staff to work remotely is decreasing productivity and causing morale issues amongst team members. | Project team members have reported decreased productivity and there is a strong likelihood of the Project losing team members due to their inability to work remotely. This is evidenced by a current Help Desk employee retiring early and citing this as the reason. The Department may consider granting remote work to improve productivity and help increase morale to help ensure the existing short-staffed issue is not further exacerbated. | Project team members have reported decreased productivity and there is a strong likelihood of the Project losing team members due to their inability to work remotely. This is evidenced by a current Help Desk employee retiring early and citing this as the reason. | The Department may consider granting remote work to improve productivity and help increase morale to help ensure the existing short-staffed issue is not further exacerbated. | | Project Management | Preliminary Concern | N/A | Open | Vic Dudoit | |
| 27.00 | 8/31/2022 The current DDI period expires at the end of October 2022 which will require RSM to transition the D365 solution to the State prior to contract end. | Efforts to submit an IAPDU to pursue CMS Federal funding approval for extending DD&I through May 2023 have been stalled as a result of claims invoicing discrepancies. | DHS/MQD identified discrepancies with invoicing BHA claims which they are reconciling prior to the submission of an IAPDU. | DHS to reconcile current claims invoicing discrepancies. | 09/30/2022 - Efforts to submit an IAPDU to pursue CMS Federal funding approval for extending DD&I through May 2023 have progressed in September and BHA plans on submitting the IAPDU to CMS in early October. If the IAPDU is not approved by the end of October, the project will be at major risk. | Project Management | Risk | High | Open | Vic Dudoit | |

| 28.00 | 9/30/2022 | The DDD Product Owner | The absence of the current DDD | DDD Product Owner announced her | IV&V recommends a formal | Project Management | Issue | High | Open | Vic Dudoit | |
|-------|-----------|----------------------------|----------------------------------|---|-------------------------------------|--------------------|-------|------|------|------------|--|
| | | resigned her position in | Product Owner will cause major | departure in September 2022 for early | transition plan be fully defined | | | | | | |
| | | September and will | challenges for DDD as she wore | October. | and executed prior to the DDD | | | | | | |
| | | transition off the project | multiple hats and is responsible | DDD Product Owner wears multiple hats | Product Owner departure. | | | | | | |
| | | in early October. | for many aspects of the day-to- | supporting both business and administrative | IV&V recommends DDD seek | | | | | | |
| | | | day work from both an | functions. | (internal/external) multiple staff | | | | | | |
| | | | administrative and business | | to replace the DDD Product | | | | | | |
| | | | perspective. | | Owner for each role served. | | | | | | |
| | | | | | IV&V recommends DDD consider | | | | | | |
| | | | | | soliciting contracted staff to fill | | | | | | |
| | | | | | the immediate gaps with the DDD | | | | | | |
| | | | | | Product Owner's departure. | | | | | | |
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