

### OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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March 19, 2024

The Honorable Ronald D. Kouchi President of the Senate and Members of the Senate Thirty-Second State Legislature State Capitol, Room 409 Honolulu, Hawai'i 96813 The Honorable Scott K. Saiki Speaker and Members of the House of Representatives Thirty-Second State Legislature State Capitol, Room 431 Honolulu, Hawai'i 96813

Aloha Senate President Kouchi, Speaker Saiki, and Members of the Legislature:

Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation (IV&V) reports to the Legislature within ten days of receiving the report, please find attached the report the Office of Enterprise Technology Services received for the State of Hawai'i, Department of Health, BHA Integrated Case Management System Project.

In accordance with HRS section 93-16, this report may be viewed electronically at <a href="http://ets.hawaii.gov">http://ets.hawaii.gov</a> (see "Reports").

Sincerely,

Douglas Murdock (Mar 20, 2024 11:02 HST)

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)





## Hawaii BHA Integrated Case Management System Project – *Phase 4*

IV&V Report for the period of

February 1 – February 29, 2024

Submitted: March 14, 2024



### **Agenda**

**Executive Summary IV&V Findings & Recommendations** 

### **Appendices**

- A Rating Scales
- B Inputs
- C Project Trends





R4.5 development is ongoing, and the soft code freeze was on 2/29/2024, and the go-live is planned for 3/28/2024. The project team contemplated a Mid-sprint deployment (MSD) for 3 items, including the Adverse Event Report (AER), Maui Wildfire SMS, and ISP modifications. AER was deployed on 2/29/2024, and the remaining two items will be deployed in R4.5.

Three (3) out of four (4) R4.4 post-production bugs (severity: 2 critical, 1 high, 1 medium) have been fixed and tested in the development and test environments, and the fixes will be deployed to production with R4.5. One (1) **post-production** bug is yet to be created in DevOps. IV&V will monitor the progress and quality of the R4.5 deployment after deployment on 3/28/2024. CAMHD is developing a stakeholder registry and RACI matrix to address adequate CAMHD participation in the testing process.

The Fast Healthcare Interoperability Resources (FHIR) project is continuing to progress as planned. The System Integrator (SI) vendor and Microsoft (MS) are currently working on the authentication work, converting the data, and testing. The team is on track to deploy in Release 4.5.

Dec	Jan	Feb	Category	IV&V Observations
G	Y	Y	Sprint Planning	Product Backlog reviews continue to be conducted during the design and/or weekly issues meetings. The project team contemplated a mid-sprint deployment (MSD) for 3 items (AER, Maui Wildfire SMS, and ISP modifications). AER was deployed on 2/29/2024, and the remaining two will be deployed in R4.5. BHA to schedule separate dedicated product backlog meetings for scoping R4.6, to help avoid the need for including items in mid-sprint deployments. This category remains yellow in the February reporting period.
G	G	G	User Story (US) Validation	There are no active findings in the User Story (US) Validation category, which remains Green (low criticality) for the February reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.



Dec	Jan	Feb	Category	IV&V Observations
Y	R	Y	Test Practice Validation	Tricentis coaching sessions and coding of the automated testing for R4.5 is ongoing. R4.5 regression testing execution is planned for mid-March 2024. BHA is reporting the progress and status of automated regression testing. R4.5 development is in progress, the soft code freeze was on 2/29/2024, and go-live is planned for 3/28/2024. IV&V will continue to monitor and review automated regression testing results and status reporting.
Y	R	R	Release / Deployment Planning	Three (3) of the R4.4 post-production bugs were deployment-related, and two (2) of the deployment-related bugs were critical. CAMHD and DDD Stakeholders plan to meet in March 2024 to clarify open questions regarding when Golden Record (GR) development will be completed and questions around potential 3rd-party tool integration to come to a common understanding about the scope and planned completion of GR development.
G	G	G	OJT and KT Sessions	This category remains Green (low criticality) for the February reporting period with no active findings.
G	G	G	Targeted KT	This category remains Green (low criticality) for the February reporting period. IV&V will continue to monitor.

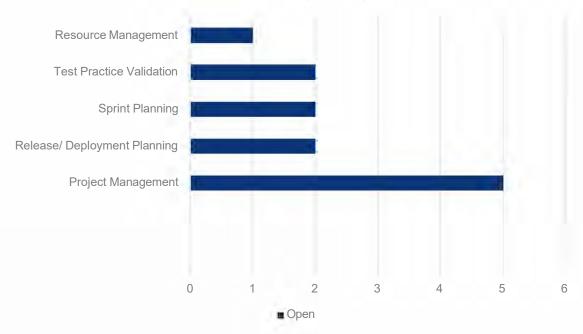


Dec	Jan	Feb	Category	IV&V Observations	
G	G	G	Project Performance Metrics	There are no project performance metrics to report for this reporting period. IV&V will keep the criticality rating for this category a Green (low criticality) and will continue monitoring this category.	
G	G	Organizational Maturity Assessment (OMA)	G	laturity  Inis category remains Green for the February reporting period. There are no outstanding findings in this category, and IV&V will continue to monitor.	
R	R	R	Project Management	Three (3) of four (4) post-production bugs (severity: 2 critical, 1 high, 1 medium) have been fixed and tested (in the development and test environments), and the fixes are to be deployed to production in R4.5. One (1) post-production bug is yet to be created in DevOps. IV&V will monitor the progress and quality of the R4.5 deployment when deployed in March 2024. GR affects project scope, schedule, and budget. CAMHD and DDD will have discussions about the scope and schedule for the next performance test. IV&V recommends establishing effective governance and communication for the Project.	
R	R	R	Resource Management	As an update to Finding #34, DDD plans to request one (1) business analyst position to address resource shortages.	



As of the February 2024 reporting period, twelve open findings were updated – six (6) High Issues, three (3) Medium Issues, two (2) Medium Risks, and one (1) Preliminary Concern spread across the Release/Deployment Planning, Test Practice Validation, Sprint Planning, and Project Management, and Resource Management assessment areas.

### Open Risks/ Issues by Category/Priority





### **Assessment Categories**

Throughout this project, IV&V verifies and validates activities performed in the following process areas:

- Sprint Planning
- User Story Validation
- Test Practice Validation
- Release / Deployment Planning
- On-the-Job Training (OJT) and Knowledge Transition (KT) Sessions
- Targeted Knowledge Transition (KT)
- Project Performance Metrics
- Organizational Maturity Assessment
- Project Management
- Resource Management



**Sprint Planning** 

#	Key Findings	Criticality Rating
	<b>Medium Risk:</b> Lack of regular Sprint reviews and sprint demos will likely lead to misalignments between delivered work and stakeholder needs.	
31	<b>Finding Update:</b> Discussions are on-going about R4.5 and R4.6 new functionality/features that would be demonstrated. Accordingly, the vendor to schedule demonstrations of new functionality/features as part of Sprint Reviews.	M
Reco	mmendations	Status

Recommendations	Status
<ul> <li>According to Agile Best Practices, IV&amp;V recommends including Sprint reviews and demos in future releases (R4.2 and onwards) with all relevant stakeholders to assess the completion of user stories, review important metrics and outcomes, and confirm if the Sprint goal has been achieved. This approach would also help ensure the backlog is prioritized and well-prepared for the next Sprint. These are some recommendations for project alignment, stakeholder engagement, quality assurance, transparency, and the incorporation of user feedback.</li> </ul>	In Progress
<ul> <li>Strengthen the collaboration between development teams and stakeholders by enhancing communication channels. Regularly validate project objectives and ensure that sprint deliverables remain consistent with stakeholder requirements</li> </ul>	In Progress
<ul> <li>Foster active participation from users and stakeholders during both Sprint Reviews and Sprint Demos.</li> <li>Emphasize the value of iterative feedback to guide development and ensure that user needs are consistently met.</li> </ul>	Open



### **Sprint Planning (cont'd)**

Recommendations	Status
<ul> <li>Establish standardized communication protocols for both Sprint Reviews and Sprint Demos. Encourage teams to deliver concise and informative progress reports, including achievements, challenges, and future plans. This will enhance stakeholder engagement and project transparency.</li> </ul>	In Progress
Create a stakeholder register to identify all stakeholders. List their identification, assessment, and classification. Review the register regularly to plan appropriate stakeholder engagement.	Open
<ul> <li>Institute a structured documentation process for both activities. Document key decisions, action items, and insights from each session to ensure accountability and to support ongoing process improvement.</li> </ul>	Open

**Sprint Planning (cont'd)** 

#	Key Findings	Criticality Rating
	<b>Medium Risk:</b> The absence of separate dedicated product backlog review meetings can pose several challenges for a project team.	
41	<b>Finding Update:</b> Product backlog reviews are still done during design meetings and/or weekly issues meetings. The project team contemplated a mid-sprint deployment (MSD) for three (3) items (AER, Maui Wildfire SMS, and ISP modifications). AER was deployed on 2/29/2024, and the remaining two will be deployed in R4.5. BHA to schedule separate dedicated product backlog meetings for scoping R4.6 to help avoid the need for including items in a mid-sprint deployment.	M

Recommendations		Status
	Separate dedicated product backlog review meetings (during sprints) would allow clarifying any ambiguities or uncertainties, re-prioritization, estimation and refinement of backlog items. This would allow the project team to avoid situations where decisions about including items Mid-sprint would have to be taken.	New
	IVV recommends scheduling separate dedicated product backlog review meetings (during sprints) where all relevant stakeholders are invited to review the product backlog and scheduled at the appropriate time(s) such that there is sufficient time to plan the design, development, and implementation (DDI) of the next release(s).	Open



### **Test Practice Validation (cont'd)**

#	Key Findings	Criticality Rating
2	Medium Issue: As a result of automated regression testing not being comprehensively performed, production releases are breaking and/or deprecating existing functionality in the production environment.  Finding Update: R4.5 development is ongoing. The soft code freeze was on 2/29/2024 and go-live is planned for 3/28/2024. The project team contemplated a mid-sprint deployment (MSD) for 3 items: Adverse Event Report (AER), Maui Wildfire SMS, and ISP modifications. AER was deployed on 2/29/2024, and the remaining two will be deployed in R4.5. Tricentis coaching sessions and coding of the automated testing for R4.5 are ongoing. R4.5 regression testing execution is planned in mid-March 2024. BHA is reporting the progress and status of automated regression testing. IV&V will continue to monitor and review automated regression testing results and status reporting.	M
Reco	mmendations	Status
• Ha	wing board(s) in Azure DevOps or a document on SharePoint that provides information about the status of gression testing automation, to facilitate visibility and transparency to BHA project personnel and keholders.	Status In Progress
Ha     reg     sta      Sci     will	ving board(s) in Azure DevOps or a document on SharePoint that provides information about the status of gression testing automation, to facilitate visibility and transparency to BHA project personnel and	



**Test Practice Validation (cont'd)** 

Recommendations	Status
Determine if current regression testing timeframes are adequate, and if not, add more time production regression test efforts for all release deployments.	to the pre-

### **Test Practice Validation (cont'd)**

#	Key Findings	Criticality Rating
	<b>High Issue:</b> Improvements to the testing process are needed to ensure adequate CAMHD participation and comprehensive testing of functionality prior to production deployment.	
40	<b>Finding Update:</b> CAMHD is developing a Stakeholder registry and RACI matrix to address adequate CAMHD participation in the testing process.	•
Recor	nmendations	Status

Recommendations	Status
Identify stakeholders (output is stakeholder register) and develop a RACI matrix for testing.	Open
Review the overall testing process and implement any needed improvements identified.	Open

**Release / Deployment Planning** 

#	Key Findings	Criticality Rating
32	Medium Issue: Golden Record (GR) project delays are likely to delay the implementation of future features and functionality.  Finding Update: CAMHD and DDD Stakeholders to meet in March 2024 to clarify open questions, e.g., when GR development would be completed and questions around potential 3rd-party tool integration, to come to a common understanding about the scope and planned completion of GR development. GR has a scope, schedule, and cost impact.	M

R	Recommendations	
•	Identify stakeholders (output is stakeholder register) and develop a RACI matrix for the project to ensure adequate communication and stakeholder participation.	Open
•	Identify the objective of implementing GR production data use, benefits, current gaps in design, effort estimates, resource commitments, and impact of having/not having GR.	In Progress
•	Prior to implementation of the GR production data use, needed updates to the consent form should be confirmed and completed, policies/procedures for all users should be confirmed, and all open defects should be resolved.	In Progress
•	Analyze the impact on the future functionalities and assess the implications if this strategic change is needed.	In Progress
•	GR working sessions should be resumed until there is clarity on remaining work to be completed, timeline for completion, etc.	Open



### Release / Deployment Planning (cont'd)

#	Key Findings	Criticality Rating
	<b>High Issue:</b> Due to ongoing deployment processes and technical execution issues, the Project may continue to encounter defects and challenges. E.g., when releases are in production or in meeting projected timelines for production and non-production deployments.	
39	<b>Finding Update:</b> Three (3) of four (4) post-production bugs (severity: 2 critical, 1 high, 1 medium) have been fixed and tested (in the development and test environments), and the fixes are to be deployed to production with R4.5. One (1) <b>post-production</b> bug is yet to be created in DevOps. IV&V will monitor the progress and quality of the R4.5 deployment after deployment on 3/28/2024. Three (3) of these are deployment-related, and two (2) of the deployment-related bugs were critical. IV&V will monitor the progress and quality of the R4.5 deployment once R4.5 is deployed in March 2024.	0

R	ecommendations	Status
	The Project should consider automating deployments for resource savings, increased efficiency, consistency, faster time to market, improved collaboration and reliability, scalability, version control integration, and rollback capability.	New
•	Ensure there are adequate and qualified resources to support the current deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components.	Open
	As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	Open
•	Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with the consistency of configurations across environments, ensuring that the test environment is capable of testing ALL functions of any given release without the need for using multiple test environments.	Open



### Release / Deployment Planning (cont'd)

Recommendations	Status
<ul> <li>Request the assistance of the RSM Solution Architect in the review of deployment scripts as a double-check for accuracy and completeness prior to commencing deployment activities.</li> </ul>	Open
The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.	Open
<ul> <li>IV&amp;V recommends performing an RCA in collaboration with RSM for the continued concerns surrounding environment differences.</li> </ul>	Open
• IV&V recommends updating the Project's Configuration Management Plan to address the current needs of the Project. This should include specific checklists geared at ensuring repeatable promotional processes by DOH.	Open
<ul> <li>Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed.</li> </ul>	Open
Ensure an operational and fully functional test environment is available to effectively conduct end-to-end regression testing prior to deploying a release to production.	Open
<ul> <li>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.</li> </ul>	Open



### **Project Management**

#	Key Findings	Criticality Rating
14	<b>High Issue:</b> Due to multiple quality concerns, the Project may continue to face impactful system defects. <b>Finding Update:</b> Three (3) of four (4) post-production bugs (severity: 2 critical, 1 high, 1 medium) have been fixed and tested (in the development and test environments), and the fixes are to be deployed to production in R4.5. One (1) <b>post-production</b> bug is yet to be created in DevOps. IV&V will monitor the progress and quality of R4.5.	•

Recommendations	
Evaluate existing project staff skills and experience level to ensure they meet BHA support requirements.	In Progress
<ul> <li>Perform CAMHD revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.</li> </ul>	In Progress
Assign dedicated resources to provide oversight and monitoring of CAMHD Fiscal Processes	Open
Monitor implemented IV&V recommendations for effectiveness.	In Progress

#	Key Findings	Criticality Rating
	<b>Medium Issue:</b> Performance bottlenecks with the INSPIRE production environment may result in low productivity and poor user experience.	
33	<b>Finding Update:</b> Per the IV&V recommendation about scheduling the next performance test, CAMHD and DDD will have discussions about the scope and schedule for the next performance test.	M

Recommendations	Status
• The last performance test was executed in June 2023 for phase 3 releases (R3.x). ~800+ new User Story Points (USPs) have been developed since the last performance test execution. IV&V recommends BHA execute a performance test during the development of R4.6 (planned completion 5/20/2024), identifying test cases and scenarios that include both DDD and CAMHD functionality, transactions/functionality that are performance intensive, e.g., calculator functionality.	New
Conduct load and performance testing for each release with significant new features/functionality.	Open
Create a plan for comprehensive performance testing and address any performance bottlenecks.	Open
Have the benchmark assessments done annually and implementation of Azure App Insights for Power Platform.	Open

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



#	Key Findings	Criticality Rating
	<b>High Issue:</b> Lack of a comprehensive project schedule could lead to missed tasks, project delays, and cost overruns.	
36	<b>Finding Update:</b> The project currently utilizes a high-level Gantt chart, which shows planned release dates but does not provide visibility to task completion, tasks behind schedule, resource allocation, etc. The Data Sharing Agreement (DSA) between DDD and MQD is yet to be executed. The Analytics project will commence once the DSA is executed. A schedule for the analytics project will be developed once the start date is known. IV&V recommends also developing a schedule for Phase 4.	0
Rec	ommendations	Status
• E	ommendations stablish a clear project schedule management plan that outlines roles, responsibilities, and accountability for chedule adherence.	Status Open
• E s	stablish a clear project schedule management plan that outlines roles, responsibilities, and accountability for	



### **Project Management (cont'd)**

#	Key Findings	Criticality Rating
42	New High Issue: Ineffective governance and communication among stakeholders can significantly impact a project in several ways, e.g., stakeholder disengagement, conflict and tension, misalignment of objectives, increased risks, unclear roles and responsibilities, and quality issues. An example on this project is the development and implementation of Golden Record/Master Data Management (MDM). The lack of effective governance and communication among stakeholders can result in project delays, budget overruns, and decreased quality. It's essential for project managers and stakeholders to prioritize clear communication and establish robust governance structures to ensure project success.	H
	New Finding Update: Finding identified by IV&V.	
Rec	ommendations	Status
e	reate a Governance Structure: Implement a governance structure that defines decision-making processes, scalation procedures, and accountability mechanisms. Clarify how decisions will be made, who has uthority, and how issues will be resolved.	New
a	evelop a Stakeholder Registry, RACI chart, and Stakeholder Engagement Plan: Identify key stakeholders and develop a plan to engage them throughout the project lifecycle. Tailor communication strategies to ddress the needs and preferences of different stakeholders, ensuring their active involvement and support.	New
in	learly define Roles and Responsibilities: clearly outlining the roles and responsibilities of each stakeholder avolved in the project, would ensure that everyone understands their duties and how they contribute to the roject's success.	New
W	ncourage Open Communication and Feedback: Foster a culture of open communication and feedback there stakeholders feel comfortable sharing their thoughts, concerns, and suggestions. Encourage constructive dialogue and actively seek input to improve decision-making and problem-solving. Keep	New

stakeholders informed about project progress, milestones, and key developments through regular updates and progress reports. Highlight achievements, challenges, and any changes to the project plan or scope.

Recommendations	Status
<ul> <li>Resolve Conflicts Promptly: Address conflicts and disagreements among stakeholders promptly and professionally. Encourage dialogue, active listening, and compromise to find mutually acceptable solutions that support project goals.</li> </ul>	New
<ul> <li>Manage Expectations: Manage stakeholders' expectations by setting realistic timelines, budgets, and deliverables. Foster a culture of transparency about project constraints and risks and proactively communicate any changes or deviations from the plan.</li> </ul>	New
• Evaluate and Adapt: Continuously evaluate the effectiveness of governance and communication processes and adjust as needed. Solicit stakeholders' feedback to identify areas for improvement and continuously refine your approach.	New



### **Resource Management**

#	Key Findings	Criticality Rating
	<b>High Issue:</b> A shortage of Behavioral Health Administration (BHA) project resources could lead to reduced productivity and project delays.	
34	<b>Finding Update:</b> DDD plans to request one (1) business analyst position to address resource shortages.	•

Recommendations	Status
BHA should explore options for offloading project team members' daily responsibilities to other staff.	In Progress
BHA should work quickly to backfill vacated project team member positions.	Open
BHA should identify tasks and duties that they can ask the SI to assume, as permitted by the contract, which are presently being handled by BHA members.	Open
BHA should explore the use of contractors to fill open project positions.	Open

### **Project Performance Metrics**

Metric	Description	IV&V Observations	IV&V Updates
Velocity	<ul> <li>Review and validate the velocity data as reported by the project</li> <li>Verify the project is on pace to hit the total target number of US/USP</li> </ul>	February – There were no deployments in the month of February.  Note: AER User story 34898 was deployed as an MSD on 2/29/2024, and a related bug, 34999, has been created.	Velocity Metric Trends:  N/A

### **Project Performance Metrics (cont'd.)**

Metric	Description		IV&V Updates
Defect Metrics	<ul> <li>Understand and track the following:</li> <li>Defects by category (bug fixes)</li> <li>USPs assigned to defects in a release vs. USPs assigned to planned US in a release</li> </ul>	February – There were no deployments in the month of February.  Note: AER User story 34898 was deployed as an MSD on 2/29/2024, and a related bug, 34999, has been created.	N/A



# **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
0	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
M	A medium rating is assigned if there is a possibility of moderate impact to product quality, scope, cost, or schedule. Some disruption is likely, and a different approach may be required. Mitigation strategies should be implemented as soon as feasible.
0	A low rating is assigned if there is a possibility of slight impact to product quality, scope, cost, or schedule. Minimal disruption is likely, and some oversight is most likely needed to ensure that the risk remains low. Mitigation strategies should be considered for implementation when possible.



### **Appendix B**

### **Inputs**

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

### Meetings attended during the February 2024 reporting period:

- Daily Scrum Meetings
- 2. Daily Design Meetings
- Twice Weekly RSM Issues Meeting
- 4. Weekly BHA-ITS Program Status Meeting
- 5. Bi-Weekly Check-in: CAMHD
- 6. Bi-Weekly Check-in: DDD
- 7. IV&V Draft IV&V Status Review Meeting with DOH
- 8. IV&V Draft IV&V Status Review Meeting with RSM and DOH
- 9. DOH BHA IT Solution Project Steering Committee
- 10. Joint meeting with DDD and CAMHD

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

### Artifacts reviewed during the February 2024 reporting period:

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





# **Appendix C Project Trends**

Process Area										
Flocess Alea	May	Jun		August	September	October	November	December	January	February
User Story Validation										
Test Practice Validation										
Sprint Planning					1					
Release / Deployment Planning										
OJT and KT Sessions										
Targeted KT										
Project Performance Metrics										
Organizational Maturity Metrics										
General Project Management										
Resource Management										
Total Open Findings	6	4	5	11	11	11	10	10	11	12
Issue - high	1	0	0	2	2	2	2	2	5	6
Issue - medium	3	4	3	5	5	5	4	4	4	3
Issue - low	1	0	0	0	0	0	0	0	0	0
Risk - high	0	0	0	0	0	0	0	1	0	0
Risk - medium	1	0	1	2	2	2	2	1	1	2
Risk - low	0	0	0	0	0	0	0	0	0	0
Preliminary Concern	0	0	1	2	2	2	2	2	1	1





**Solutions that Matter** 

	D Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
2	As a result of regression testing not being consistently performed, production releases are breaking and/or deprecating existing functionality in the production environment	R3.3 introduced a defect that deprecated features in production specific to Integrated Support and Life Trajectory functionality. DDD has informed IV&V that there are other examples of functionality being deprecated after a release, some of which are still being investigated. As of this report, IV&V has not evaluated the project's root cause analysis (RCA) process used to determine why such functionality was deprecated but will discuss further with BHA in January 2020.	Thorough vetting and validation of regression test cases is necessary to prevent both defects and the deprecation of production functionality when a release is pushed live. When defects occur in production, the project should follow a defined and repeatable process for determining the root cause of the problem.	1. Having board(s) in Azure DevOps or a document or SharePoint that provides information about the status of regression testing automation, to facilitate visibility and transparency to BHA project personnel and stakeholders.  2. IV&V recommends reevaluating the schedule priorities by distributing the work according to the resource bandwidth. This will ensure that the schedule is not impacted and that the work is done efficiently between regression testing and Golden Record (GR).  3. Pursue and complete additional formal training in AzureDevOps and Tricentis for test automation at the earliest possible juncture and complete efforts to automate the 2 primary regression test scripts.  IV&V recommends DDD and CAMHD to develop a common and consistent approach across divisions for performing regression testing.  4. Determine if current regression testing timeframes are adequate and if not, add more time to the preproduction regression test scripts to ensure consistency with system configuration.  Modifying release schedules to allow for regression testing timeframes Planning releases by functionality type to avoid unnecessary repetitive work being performed in any	01/31/2024 - Tricentis coaching sessions and coding of the automated testing are ongoing. R4.4 regression testing was done partly manually and automated. R4.4 was deployed on 01/25/2024, five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered. The status of completion of automated regression test scripts is now provided in the weekly program status report, however estimated completion dates are not provided. BHA has started reporting the progress and status of automated regression testing. IVSW will monitor and review the automated regression testing results and status reporting.		Issue	Medium	Open		12/31/2019	Gautam Gulvady	
14	Due to multiple quality concerns, the projec	System defects identified in August that affected claims were	The identified quality issues have negatively affected DOH billing	given section of the solution. Performing regression testing after every release, or Evaluate existing project staff skills and experience	12/31/2023 - Tricentis coaching sessions and coding of the automation is ongoing. Golden 02/29/2024 - Three (3) of four (4) post-	Project Management	Issue	High	Open		9/30/2020	Gautam	
	may continue to face impactful system defects.	due to multi-faceted quality issues were individually addressed during this reporting period. IV&V notes that there is one remaining defect still being evaluated that affects a limited number of claims. Overall, the Project Team has responded with a commitment to increase project quality and is in the process of identifying improvements to associated testing processes. These currently include-Performing Revenue Neutrality Testing to ensure expected revenue streams are largely unchanged from one period to the next. Conducting System Integration Testing, User Acceptance Testing, Performance Testing, and Regression Testing for Release 3.10. IV&V will continue to monitor the testing efforts throughout the balance of Release 3.10 and validate that enhanced quality processes, including industry standard regression testing, continue for Agile Release 3.11 forward. Finally, IV&V reviewed and provided feedback on the Help Desk and Semantic Layer design documents per request and found that both documents lacked design details.	defects discovered to date.	level to ensure they meet BHA support requirements.  Perform revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.  Assign dedicated resources to provide oversight of CAMHO Fiscal Processes.  Monitor implemented improvements for effectiveness.  IV&V recommends performing an RCA in collaboration with RSM after all future release deployments for continuity improvement.  BHA and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase level of detail and quality.  Perform typical project testing including System Integration, User Acceptance, Performance, and Regression Testing.  Dedicate sufficient time in between releases for BHA and RSM to execute/implement RCA correction actions to reduce the volume of unplanned rework.	production bugs (sevently: 2 critical, 1 high, 1 medium) have been fixed and tested (in the development and test environments), and the fixes are to be deployed to production in R4.5. One (1) post-production bug is yet to be created in DevOps. IV&V will monitor the progress and quality of R4.5.  01/31/2024 - R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD) have been encountered, which the 51 wendor and BHA are currently analyzing. IV&V will monitor the progress. Priority was changed from Medium to High.  12/31/2023 - R4.3 Golden Record (GR) midsprint deployment (MSD) went live on 12/21/2023. IV&V is monitoring GR MSD for quality.  11/30/2023 - R4.3 went live on 11/09/23 as planned. A high-priority R4.2 post-production fix was deployed with R4.3. There are currently no R4.3 post-production bugs. IV&V will monitor R4.3 for quality.  10/31/2023 - R4.3 development is progressing well. Hard code was frozen on 10/24/23 and golive is planned for 11/09/23. A high-priority R4.2 post-production bug will be deployed with R4.3. IV&V will monitor R4.3 for quality.							Gulvady	

ID	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
31	Lack of regular Sprint reviews and sprint	Earlier in the project, end-of-sprint demos that were	Based on Agile Best Practices, Sprint Demoes or reviews occur	According to Agile Best Practices, IV&V recommends	02/29/2024 - Discussions are on-going about	Sprint Planning	Risk	Medium	Open		7/26/2023	Gautam	_
31	demos will likely lead to misalignments	conducted.Sprint reviews/demos help to bring alignment	during a sprint, with the development team, scrum master, and	including Sprint reviews and demos in future releases		Sprinerianing	Tusic	Wicalam	Орен		1,720,2023	Gulvady	
	between delivered work and stakeholder	across the team and stakeholders. They are essential building	product owner.	(R4.2 and onwards) with all relevant stakeholders to	would be demonstrated. Accordingly, the								
	needs.	blocks for better software and teams. Sprint demos /reviews		assess the completion of user stories, review	vendor to schedule demonstrations of new								
		showcase the main functionality to stakholders and	Sprint reviews/demos are crucial in bringing alignment across the		functionality/features as part of Sprint Reviews.								
		incorporate their feedback. Currently, the project has joint	team and stakeholders. It is a great opportunity for the product	Sprint goal has been achieved. This approach would									
		testing involving the SI and BHA personnel. Per Agile Best	owner, stakeholders, and the team to review what's being	also help ensure the backlog is prioritized and well-	01/31/2024 - The vendor to schedule								
		practices, IV&V believes having Sprint demos/reviews during a	delivered and receive feedback. This way, the team can gauge	prepared for the next Sprint. These are some	demonstrations of new functionality/features as								
		sprint helps clarify and validate design prior to testing, steer	responses and make observations earlier during development,	recommendations for project alignment, stakeholder	part of Sprint Reviews going forward.								
		the team in the right direction and help avoid big mistakes.	and not later during testing. Celebrating the team's	engagement, quality assurance, transparency, and	40/04/0000 TI I I I I I I I I I I I I I I I I								
		This would also allow the testing team to focus solely on	accomplishments is also an essential part of these demos.	the incorporation of user feedback.	12/31/2023 - The vendor and BHA have a								
		testing, which is beneficial.	Moreover, they are invaluable in steering the team in the right direction and avoiding big mistakes. It's interesting to note that	Strengthen the collaboration between	product backlog review process in place. IV&V will review the product backlog (living artifact),								
			the Sprint demo could bring to light bugs such as R4.1 bug 34055	development teams and stakeholders by enhancing	observe the product backlog (iving artifact),								
			on the Portal, where the checkbox is on the left of the text.	communication channels. Regularly validate project	and will monitor future Sprint reviews.								
			of the Fortal, where the effection is of the fert of the text.	objectives and ensure that sprint deliverables remain	and will monitor ratare sprint reviews.								
				consistent with stakeholder requirements.	11/30/2023 - The vendor and BHA have a								
				· ·	product backlog review process in place. IV&V								
				2. Foster active participation from users and	will observe the product backlog review process								
				stakeholders during both Sprint Reviews and Sprint	and will monitor future Sprint reviews. This was								
				Demos. Emphasize the value of iterative feedback to	changed from a Preliminary Concern to a								
				guide development and ensure that user needs are	Medium-priority Risk.								
				consistently met.									
					10/31/2023 - The vendor has confirmed that								
				Establish standardized communication protocols	they will provide demonstrations of new								
				for both Sprint Reviews and Sprint Demos. Encourage									
				teams to deliver concise and informative progress	going forward. In parallel, joint testing of								
				reports, including achievements, challenges, and	bugs/user stories continues. IV&V will work								
				future plans. This will enhance stakeholder	with BHA and the vendor to understand the								
				engagement and project transparency.	product backlog review process.								
					00/00/0000 0004								
				Create a stakeholder register to identify all stakeholders. List their identification, assessment,	09/30/2023 - RSM conducted some demos during the emergency wildfire-related								
				and classification. Review the register regularly to	communications for the email and SMS tools.								
									_				
32		Due to issues with the Golden Record (GR) solution, the	GR implementaion has been delayed several times. As a result,	1. Identify stakeholders (output is stakeholder	02/29/2024 - CAMHD and DDD Stakeholders to	Release/Deployment	Issue	Medium	Open		7/10/2023	Gautam	
	be delayed.	project may experience delays and a shift in focus from critical	GR is impacting the INSPIRE release schedule. E.g., mid-sprint	register) and develop a RACI matrix for GR.	meet in March 2024 to clarify open questions,	Planning						Gulvady	
		functionality. The GR is a crucial element that affects several	deployment (MSD) has been postponed multiple times. BHA		e.g., when GR development would be								
		user steries dependent on it. The deployment of the CD has	roughuing original requirements and avaluating if PHA poods to	2. Bosommond that BHA works with IV/9V/ to assess									
		user stories dependent on it. The deployment of the GR has	reviewing original requirements and evaluating if BHA needs to	Recommend that BHA works with IV&V to assess  OR critical increases to assist in determining the path.	completed and questions around potential 3rd-								
		been postponed to 08/19/2023, resulting in the transfer of	reviewing original requirements and evaluating if BHA needs to revisit the design.	GR critical issues to assist in determining the path	completed and questions around potential 3rd- party tool integration, to come to a common								
		been postponed to 08/19/2023, resulting in the transfer of approximately 150 story points into R4.2 and subsequent			completed and questions around potential 3rd- party tool integration, to come to a common understanding about the scope and planned								
		been postponed to 08/19/2023, resulting in the transfer of approximately 150 story points into R4.2 and subsequent releases. However, it is unclear which releases will include the		GR critical issues to assist in determining the path forward.	completed and questions around potential 3rd- party tool integration, to come to a common understanding about the scope and planned completion of GR development. GR has a scope,								
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33		Performance issues have been identified that have the potential to impact the system's functionality, user experience, and the overall reliability of the system. These performance issues warrant immediate attention and resolution.	Developmental Disability Division (DDD) personnel are encountering performance issues with re-assigning cases, and opening the DDD – Contact Notes (Fiscal View – Complete) view. CAMHD has not reported performance issues.	1. The last performance test was executed in June 2023 for phase 3 releases (R3.x). *800+ new User Story Points (USPs) have been developed since the last performance test execution. IV&V recommends BHA execute a performance test during the development of R4.6 (planned completion 5/20/2024), identifying test cases and scenarios that include both DDD and CAMHD functionality, transactions/functionality that are performance intensive, eg., calculator functionality.  2. Conduct load and performance testing for each release that has significant new features/functionality.  3. Create a plan for comprehensive performance testing and address any performance bottlenecks.  4. Have the benchmark assessments done annually and implementation of Azure App Insights for Power Platform.	02/29/2024 - Per the IV&V recommendation about scheduling the next performance test, CAMHO and DDD will have discussions about the scope and schedule for the next performance test. 01/31/2024 - IV&V to discuss the criteria for selecting upcoming release(s) for performance testing (as part of planning performance testing las part of planning performance test) with BHA so planning can commence. A new recommendation has been added. 12/31/2023 - IV&V to discuss performance test planning with BHA for upcoming release(s) with significant new features/functionality. 11/30/2023 - IV&V has discussed the next steps with BHA (see updated recommendation #1). 10/31/2023 - The IV&V review of the draft vendor contract indicates that the vendor is accountable for conducting load and performance testing of INSPIRE. IV&V will discuss the next steps with BHA and provide recommendations in the next reporting period. 09/30/2023 - The SI vendor draft contract is currently under review by IV&V, while the terms of the new contract are currently being finalized. IV&V will determine whether the contractor is responsible for addressing performance issues under the draft contract terms.	Project Management	Issue	Medium	Open		8/18/2023	Gautam Gulvady	
34	(BHA) project resources could lead to reduced productivity and project delays.	Key BHA project resources have reported constraints on how much time they can devote to the project. The departure of the Child and Adolescent Mental Health Division (CAMHD) System Management Office Manager and CAMHD Inspire Project Lead could further impact the project if DOH cannot acquire suitable resources. The lack of capacity of the DOH test script developer has slowed DOH's automated test script development.	If BHA is unable to fully staff the project and their existing resources continue to be constrained, the project could experience a reduction in productivity and project delays.	1. BHA should explore options for offloading project team members' daily responsibilities to other staff. 2. BHA should work quickly to backfill vacated project team member positions. 3. BHA should identify tasks and duties that they can ask the SI to assume, as permitted by the contract, which are presently being handled by BHA members. 4. BHA should explore the use of contractors to fill open project positions.	02/29/2024 - DDD plans to request one (1) business analyst position to address resource shortages.  01/31/2024 - There continue to be significant project resource shortages, as per the resources documented in APDU #6. This finding was changed from a Risk to an Issue.  12/31/2023 - During the Steering committee meeting on 12/12/2023, DDD representative communicated since the three positions were not included in the budget, DDD to submit a variance for an IT position.  11/30/2023 - DDD took proactive steps to address the IT shortages by creating three position descriptions along with justifications. However, the positions were not approved. DDD will continue to explore other options and find a solution to address the IT shortages. The Healthcare System Management Office (HSMO) Chief's position was cancelled after it was opened. A Band B System Architecture resource is now filling that role temporarily, in addition to executing his own duties. The reporting hierarchy of resources that previously reported to the HSMO Chief is also unclear.  10/31/2023 - With the departure of the BHA INSPIRE Child and Adolescent Mental Health Division (CAMHD), System Management Office Manager, and CAMHO Inspire Project Lead, the BHA has temporarily assigned many of its	Resource Management	Issue	High	Open		8/18/2023	Michael Fors	

	D Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
35	lack of an ongoing cleanup process may be	ad R3.33 work started, and the SI vendor was working with BHA	A cleaned-up Azure DevOps environment would enable the team	1. DevOps cleanup is an opgoing process. The usage	02/29/2024 - Standardizing (ongoing process)	Project Management	Preliminary	N/A	Open		8/2/2023	Gautam	-
33	to clutter and reduce Azure DevOps	on the Statement of Work (SOW). BHA made the decision not		and configuration of the Azure DevOps (AD)	tags used in Azure DevOps and cleaning up the	Troject Management	Concern	1.7.	Орсп		0,2,2023	Gulvady	
	effectiveness in supporting the INSPIRE	to implement R3.33 and moved on to the next big phase of	stories, e.g., "n" number of post-production defects in Rm.n to	environment should be regularly monitored to	Azure DevOps environment are ongoing. E.g.,				1			,	
	project management and tracking needs.	work, starting with R4.1. Project team members will see some		prevent clutter and maintain its effectiveness in	post-production bugs are tagged "Post Go-Live				1				
		references to R3.33 in Azure DevOps, which are incorrect and	effectiveness (trending as improvements, e.g., fewer post-	supporting the INSPIRE project management and	Bug" with tags for the appropriate release(s).				1				
		should be updated to R4.1, or an appropriate future release.	production bugs from previous releases), and to maintain tool's	tracking needs.	IV&V will monitor the progress.				1				
		There is still cleanup happening for items that are in the	effectiveness in supporting project management needs.						1				
		parking lot, which may state R3.33 until those items are		2. Configuration Review: Evaluate the Azure DevOps	01/31/2024 - RSM and BHA are standardizing				1				
		assigned to a release.		(AD) configuration settings. Ensure workflows, issue	(on-going process) the tags used in Azure				1				
				types, custom fields, and other settings are aligned	DevOps and their usage, and are cleaning up				1				
				with the project's needs and industry best practices.	the Azure DevOps environment. E.g., the four				1				
					(4) R4.4 post-production bugs are tagged "Post				1				
				3. Optimize Boards and Filters: Review the boards,	Go-Live Bug". IV&V will monitor the progress.				1				
				filters, and tags in Azure DevOps (AD) to ensure they					1				
				accurately reflect the status of work, and they are	12/31/2023 - RSM and BHA are standardizing				1				
				designed to facilitate efficient tracking and	(on-going process) the tags used in Azure				1				
				collaboration. This will help streamline and make it	DevOps and their usage, and are cleaning up				1				
				easier to find relevant information.	the Azure DevOps environment. The tags will be				1				
				4. User Training and Best Practices: Provide training	used from R4.4 onwards. This should help optimize the workflow and make it more				1				
				to Azure DevOps (AD) users to ensure they are using	streamlined. IV&V will continue to monitor the				1				
				the tool effectively. Share best practices for issue	usage of tags and the cleanup process.		1	1	1	1	1	1	
				creation, workflow management, and collaboration.	usage of tags and the cleanup process.				1				
				areation, worknow management, and conductation.	11/30/2023 - RSM and BHA are standardizing				1				
				5. Establish a plan for regular maintenance of Azure	(on-going process) the tags used in Azure				1				
				DevOps (AD). Regularly review and clean up old	DevOps and their usage, and are cleaning up				1				
				issues, adjust workflows as needed, and ensure that	the Azure DevOps environment. This should				1				
				configurations remain aligned with evolving needs.	help optimize the workflow and make it more				1				
					streamlined. IV&V will continue to monitor the				1				
					usage of tags and the cleanup process.				1				
									1				
					10/31/2023 - RSM and BHA are collaborating to				1				
					standardize the tags used in Azure DevOps and				1				
					their usage, to clean up the Azure DevOps								
36	Lack of a comprehensive project schedul	Project work is ongoing without a project schedule in place.	Project work is ongoing without a project schedule in place.	Establish a clear project schedule management	02/29/2024 - The project currently utilizes a	Project Management	Issue	High	Open		8/29/2023	Gautam	
	could lead to missed tasks, project delay	Some current project work is considered Maintenance and	Some current project work is considered Maintenance and	plan that outlines roles, responsibilities, and	high-level Gantt chart, which shows planned				'			Gulvady	
	and cost overruns.	Operations, but there is new work to be completed as well.	Operations, but there is new work to be completed as well.	accountability for schedule adherence.	release dates but does not provide visibility to				1				
					task completion, tasks behind schedule,				1				
				Create and baseline a comprehensive project	resource allocation, etc. The Data Sharing				1				
				schedule in MS project, Smartsheet, or a similar tool,	Agreement (DSA) between DDD and MQD is yet				1				
				containing tasks for both SI vendor and State, task	to be executed. The Analytics project will				1				
				dependencies, and resourcing.	commence once the DSA is executed. A				1				
					schedule for the analytics project will be				1				
				3. Implement regular schedule reviews and updates	developed once the start date is known. IV&V				1				
				to ensure alignment with project objectives and	recommends also developing a schedule for				1				
				milestones.	Phase 4.				1				
									1				
					01/31/2024 - Delays in executing the Data				1				
					Sharing Agreement (DSA) contract between				1				
					DDD and MQD. The Department. of Human Services (DHS) has delayed the commencement				1	l	1	1	
					of the Analytics project. IV&V has yet to see a				1	l	1	1	
				I	comprehensive project schedule for the				1	l	1	1	
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					Analytics module. The priority has changed								
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					Analytics module. The priority has changed from Medium to High.								
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39	Due to on-going deployment processes and	Several post-production bugs have been encountered in the	Regarding the bug, "Human Services Research Institute (HSRI)	The Project should consider automating	02/29/2024 - Three (3) of Four (4) post-	Release/Deployment	Issue	High	Open		1/25/2024	Gautam	
	technical execution issues, the Project may	Phase 4 release, R4.4.	flow is failing in production" (bug# 34886	deployments for resource savings, increased	production bugs (severity: 2 critical, 1 high, 1	Planning	1	1			_,_,,	Gulvady	
	continue to encounter defects and		https://dev.azure.com/DOHBHA/DOH%20BHA%20INSPIRE/ wor	efficiency, consistency, faster time to market,	medium) have been fixed and tested (in the		1				1		
	challenges, e.g., when releases are in		kitems/edit/34886), what is in development and deployed is	improved collaboration and reliability, scalability,	development and test environments) and are to		1						
	production or in meeting projected timelines		vastly different from what was deployed to production.	version control integration, and rollback capability.	be deployed to production with R4.5. One (1)		1						
	for production and non-production		vastly different from what was deployed to production.	version control integration, and romodek capability.	post-production bug is yet to be created in		1						
	deployments.		The root cause for these errors is currently being investigated.	2. Ensure there are adequate and qualified resources	DevOps. IV&V will monitor the progress and		1						
				to support the current deployment processes. This	quality of the R4.5 deployment after		1						
			Repeatable documented release and deployment and resources	may require the support from RSM resources to	deployment on 2/29/2024. Three (3) of these		1						
				provide assistance and knowledge transfer for some	are deployment-related, and two (2) of the		1						
			minimized, and that functionality is not mistakenly deprecated	of the more complex deployment components.	deployment-related bugs were critical. IV&V will		1						
	1		when deployments take place.		monitor the progress and quality of the R4.5	1	1	1			l		
	1		,	3. As appropriate, consult with RSM on best practices	deployment once R4.5 is deployed in March	1	1	1			l		
	1			that BHA could employ to support deployment.	2024.	1	1	1			l		
	1					1	1	1			l		
	1			4. Request the assistance of the RSM Solution	01/31/2024 - R4.4 was deployed on	1	1	1			l		
				Architect in reviewing and correcting issues	01/25/2024. Five (5) post-production bugs		1						
				associated with the consistency of configurations	(severity: 2 critical, 1 high, 1 medium, 1 TBD)		1						
				across environments, ensuring that the test	have been encountered, which the SI vendor		1						
				environment is capable of testing ALL functions of	and BHA are currently analyzing. At least one of		1						
				any given release without the need for using multiple	these bugs is deployment-related. IV&V will		1						
				test environments.	monitor the progress.		1						
							1						
				5. Request the assistance of the RSM Solution			1						
				Architect in review of deployment scripts as a double			1						
				check for accuracy and completeness prior to			1						
				commencing deployment activities.			1						
							1						
				6. The Project Team should consider evaluating			1						
	1			potential changes to improve/enhance existing		1	1	1			l		
	1			processes and communications to address current		1	1	1			l		
	1			release/deployment shortfalls.		1	1	1			l	1	
	1			l ' '		1	1	1			l	1	
				7. IV&V recommends performing an RCA in			1	1			1		
40	Improvements to the testing process are	There is a limited understanding of the testing processes and	When testing user stories 34564 and 34756 on 1/31/24, the test	Identify stakeholders (output is stakeholder	02/29/2024 - CAMHD is developing a	Test Practice	Issue	High	Open	<del> </del>	1/31/2024	Gautam	
		the roles and responsibilities of those involved in the process.	tasks did not reflect the real use cases to give stakeholders	register) and develop a RACI matrix for testing.	Stakeholder registry and RACI matrix to address	Validation	1	1	1		-,,	Gulvady	
ĺ	new functionality prior to production	There is no formal process for the development, review, and	adequate confidence that the user story could be tested. As a		adequate statewide participation in the testing		1	1			l		
	deployment.	approval of test scenarios, test cases, and test results to	result, time was expended by testing resources, testing was	2. Review the overall testing process and implement		1	1	1			l		
		ensure adequate participation and approval from state staff.	inadequate, and a user story may have been deemed to meet	any needed improvements identified.	L. ZZZZZ	1	1	1			l		
ĺ	1	and approve notificate state.	functionality when it did not.	any martine deficition.	01/31/2024 - When testing user stories 34564	1	1	1			l		
			Tancastancy when it did not		and 34756 on 1/31/24, the test tasks did not		1				l		
	1				reflect the real use cases to give stakeholders	1	1	1			l		
	I	I	I	I		I	1	1	1	I	I	1 1	
				l .	adequate confidence that the user story could	1	1	1	1	1			

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					P. Commission of the Commissio								-
41	Absence of separate dedicated product	Currently, product backlog reviews are done during design	A product backlog review is an essential part of agile project	Separate dedicated product backlog review meetings		Sprint Planning	Risk	Medium	Open		1/26/2024	Gautam	
	backlog review meetings can pose several	meeting and/or weekly issues meetings. This can lead to, e.g.,	management, particularly in Scrum. It's a collaborative meeting	(during sprints) would allow clarifying any	done during design meetings and/or weekly							Gulvady	
	challenges for a project team.	scattered focus, limited stakeholder engagement, difficulty in	where the Scrum team, including the Product Owner, Scrum Master, and development team members, inspect and adapt the	ambiguities or uncertainties, re-prioritization, estimation and refinement of backlog items. This	issues meetings. The project team contemplated a mid-sprint deployment (MSD)								
		managing complexity and delayed decision making.	product backlog.	would allow the project team to avoid situations	for three (3) items (AER, Maui Wildfire SMS, and								
			product backlog.	where decisions about including items mid-sprint	ISP modifications) - AER was deployed on								
			The product backlog review is an Scrum important ceremony	would have to be taken.	2/29/2024, and the remaining two will be								
			that helps keep the backlog relevant, up-to-date, and aligned	would have to be taken.	deployed in R4.5. BHA to schedule separate								
			with the project's goals and priorities. Here's a summary of what	IVV recommends scheduling separate dedicated	dedicated product backlog meetings for scoping								
			typically happens during a product backlog review:	product backlog review meetings (during sprints)	R4.6 to help avoid the need for including items								
			Inspecting Backlog Items: The team reviews the items on the	where all relevant stakeholders are invited to review	mid-sprint.								
			product backlog. This involves discussing each item,	the product backlog and scheduled at the	·								
			understanding its priority, value, and acceptance criteria.	appropriate time(s) such that there is sufficient time	01/31/2024 - Currently, product backlog								
			2. Ensuring Clarity: The team ensures that each backlog item is	to plan the design, development, and	reviews are done during design meetings								
			clear and well-understood. Any ambiguities or uncertainties are	implementation (DDI) of the next release(s).	and/or weekly issues meetings. The Product		1						
			clarified at this stage.		backlog review is a more structured meeting								
			3. Estimation: Estimation of backlog items may occur during the		specifically dedicated to reviewing the entire								
			review. The team may use techniques like story points or relative		backlog, making adjustments, and ensuring its								
			sizing to estimate the effort required for each item.	1	readiness for upcoming sprints. The product								
1	1	1	4. Re-prioritization: Based on new insights, changes in	1	backlog review is typically conducted as a		1				1		
			requirements, or stakeholder feedback, the team may need to re-	1	separate meeting. The purpose of keeping it								
			prioritize items in the backlog.	1	separate is to focus specifically on the backlog								
1			5. Removing or Adding Items: Items that are no longer relevant	1	items, their priorities, and any necessary		1				1		
			or necessary may be removed from the backlog. New items that	1	adjustments to ensure alignment with the								
			emerge or are identified as important may be added.  6. Refinement: Backlog refinement may also occur during the	1	product vision and stakeholder needs. It typically occurs periodically, e.g., once per								
			review. This involves breaking down large items into smaller,										
			more manageable ones, or adding more detail to items as		sprint or at regular intervals, to ensure the backlog remains up-to-date, prioritized, and								
			needed.		aligned with the project's goals.								
			7. Collaboration: The review is a collaborative effort involving the		angrica war the project agoas.								
			entire Scrum team. It's an opportunity for open discussion and										
			sharing of ideas to ensure everyone is aligned on the goals and										
			priorities.										
			8. Updating Documentation: Any updates or changes made				1						
42	Effective governance and communication is	Lack of effective governance and communication among	Ineffective governance and communication among stakeholders	IVV recommends considering the following	02/29/2024 - Finding identified by IV&V.	Project Management	Issue	High	Open		2/29/2024	Gautam	
42	lacking on the project.	stakeholders can have significant negative impacts on a project		recommendations to establish effective governance	02/25/2024 - Tillding Identified by IV&V.	r roject wanagement	13300	i iigii	Орен		2/23/2024	Gulvady	
	lucking of the project	in several ways.	stakeholder disengagement, conflict and tension, misalignment	and communication among stakeholders:								Culvacy	
			of objectives, increased risks, unclear roles and responsibilities,										
			and quality issues. An example on this project is the	Create a Governance Structure: Implement a									
			development and implementation of Golden Record/Master	governance structure that defines decision-making			1						
			Data Management (MDM).	processes, escalation procedures, and accountability			1						
				mechanisms. Clarify how decisions will be made, who									
			The lack of effective governance and communication among	has authority, and how issues will be resolved.									
			stakeholders can result in project delays, budget overruns, and										
			decreased quality. It's essential for project managers and	2. Develop a Stakeholder Registry, RACI chart, and									
			stakeholders to prioritize clear communication and establish	Stakeholder Engagement Plan: Identify key									
			robust governance structures to ensure project success.	stakeholders and develop a plan to engage them									
				throughout the project lifecycle. Tailor									
				communication strategies to address the needs and									
								I					
				preferences of different stakeholders, ensuring their			1	I					
				preferences of different stakeholders, ensuring their active involvement and support.									
				active involvement and support.									
				active involvement and support.  3. Clearly define Roles and Responsibilities: clearly									
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