

### 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.	

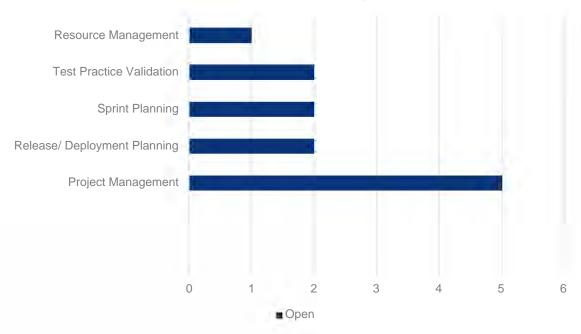


Dec	Jan	Feb	Category	IV&V Observations
G	G	G	Project Performance Metrics	There are no project performance metrics to report for this reporting period. IV&V will keep the criticality rating for this category a Green (low criticality) and will continue monitoring this category.
G	G	G	Organizational Maturity Assessment (OMA)	This 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
31	Medium Risk: Lack of regular Sprint reviews and sprint demos will likely lead to misalignments between delivered work and stakeholder needs.  Finding Update: Discussions 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
(R4 me ens	cording to Agile Best Practices, IV&V recommends including Sprint reviews and demos in future releases 4.2 and onwards) with all relevant stakeholders to assess the completion of user stories, review important strics and outcomes, and confirm if the Sprint goal has been achieved. This approach would also help sure the backlog is prioritized and well-prepared for the next Sprint. These are some recommendations for eject alignment, stakeholder engagement, quality assurance, transparency, and the incorporation of user edback.	In Progress
cha	engthen the collaboration between development teams and stakeholders by enhancing communication annels. Regularly validate project objectives and ensure that sprint deliverables remain consistent with keholder requirements	In Progress
	ster active participation from users and stakeholders during both Sprint Reviews and Sprint Demos.  Apphasize the value of iterative feedback to guide development and ensure that user needs are consistently out.	Open



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

Recommendations	
<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
<ul> <li>Create a stakeholder register to identify all stakeholders. List their identification, assessment, and classification. Review the register regularly to plan appropriate stakeholder engagement.</li> </ul>	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		
<ul> <li>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.</li> </ul>	New	
<ul> <li>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).</li> </ul>	Open	

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

#	Key Findings	Criticality Rating
	<b>Medium Issue:</b> As a result of automated regression testing not being comprehensively performed, production releases are breaking and/or deprecating existing functionality in the production environment.	
2	<b>Finding Update:</b> 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
reg	ving board(s) in Azure DevOps or a document on SharePoint that provides information about the status of ression testing automation, to facilitate visibility and transparency to BHA project personnel and keholders.	In Progress
will	nedule priorities should be reevaluated by distributing the work according to the resource bandwidth. This ensure that the schedule is not impacted and that the work is done efficiently between regression testing d GR.	In progress
	rsue and complete additional formal training in AzureDevOps and Tricentis for test automation at the rliest possible juncture and complete efforts to automate the 2 primary regression test scripts.	In progress



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

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



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

#	Key Findings	Criticality Rating
40	<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. <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

Recommendations	Status
<ul> <li>Identify stakeholders (output is stakeholder register) and develop a RACI matrix for the project to ensure adequate communication and stakeholder participation.</li> </ul>	Open
<ul> <li>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.</li> </ul>	In Progress
<ul> <li>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.</li> </ul>	uld In Progress
Analyze the impact on the future functionalities and assess the implications if this strategic change is need	ln Progress
<ul> <li>GR working sessions should be resumed until there is clarity on remaining work to be completed, timeline completion, etc.</li> </ul>	for 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.	H

Recommendations		Status
•	consider automating deployments for resource savings, increased efficiency, consistency, et, improved collaboration and reliability, scalability, version control integration, and rollback	New
	dequate and qualified resources to support the current deployment processes. This may from RSM resources to provide assistance and knowledge transfer for some of the more nt components.	Open
As appropriate, cor	nsult with RSM on best practices that BHA could employ to support deployment.	Open
consistency of conf	ance of the RSM Solution Architect in reviewing and correcting issues associated with the figurations across environments, ensuring that the test environment is capable of any given release without the need for using multiple test environments.	Open

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

Recommendations	Status
Request the assistance of the RSM Solution Architect in the review of deployment scripts as a double- for accuracy and completeness prior to commencing deployment activities.	-check Open
The Project Team should consider evaluating potential changes to improve/enhance existing processes communications to address current release/deployment shortfalls.	es and Open
<ul> <li>IV&amp;V recommends performing an RCA in collaboration with RSM for the continued concerns surround environment differences.</li> </ul>	ding Open
<ul> <li>IV&amp;V recommends updating the Project's Configuration Management Plan to address the current need Project. This should include specific checklists geared at ensuring repeatable promotional processes in the project.</li> </ul>	Unan
<ul> <li>Look at implementing 'hard' code freeze dates as well as test environment deployment dates to ensure testing and deployment activities are not rushed.</li> </ul>	e that Open
<ul> <li>Ensure an operational and fully functional test environment is available to effectively conduct end-to-e regression testing prior to deploying a release to production.</li> </ul>	nd Open
<ul> <li>Develop a plan to institutionalize the execution of "Smoke Testing" for promotions to non-production a production environments. This will help to ensure that all components needed to test have been prope deployed prior to the actual execution of test activities.</li> </ul>	



### **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.	0

Recommendations	Status
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
sl	evOps cleanup is an ongoing process. The usage and configuration of the Azure DevOps (AD) environment hould be regularly monitored to prevent clutter and maintain its effectiveness in supporting the INSPIRE roject management and tracking needs.	In Progress
	configuration Review: Evaluate the Azure DevOps (AD) configuration settings. Ensure workflows, issue upes, custom fields, and other settings are aligned with the project's needs and industry best practices.	In Progress
a	optimize Boards and Filters: Review the boards, filters, and tags in Azure DevOps (AD) to ensure they 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
	ser Training and Best Practices: Provide training to Azure DevOps (AD) users to ensure they are using the pol effectively. Share best practices for issue creation, workflow management, and collaboration.	Open
	stablish a plan for regular maintenance of Azure DevOps (AD). Regularly review and clean up old issues, djust workflows as needed, and ensure that configurations remain aligned with evolving needs.	Open



#	Key Findings	Criticality Rating
	<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		Status Open
• E s • C	ommendations  Stablish a clear project schedule management plan that outlines roles, responsibilities, and accountability for	

#	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.  New Finding Update: Finding identified by IV&V.	•

R	ecommendations	Status
•	Create a Governance Structure: Implement a governance structure that defines decision-making processes, escalation procedures, and accountability mechanisms. Clarify how decisions will be made, who has authority, and how issues will be resolved.	New
•	Develop a Stakeholder Registry, RACI chart, and Stakeholder Engagement Plan: Identify key stakeholders and develop a plan to engage them throughout the project lifecycle. Tailor communication strategies to address the needs and preferences of different stakeholders, ensuring their active involvement and support.	New
•	Clearly define Roles and Responsibilities: clearly outlining the roles and responsibilities of each stakeholder involved in the project, would ensure that everyone understands their duties and how they contribute to the project's success.	New
•	Encourage Open Communication and Feedback: Foster a culture of open communication and feedback where stakeholders feel comfortable sharing their thoughts, concerns, and suggestions. Encourage constructive dialogue and actively seek input to improve decision-making and problem-solving. Keep stakeholders informed about project progress, milestones, and key developments through regular updates and progress reports. Highlight achievements, challenges, and any changes to the project plan or scope.	New

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 is proceeding according to plan (< 30 days late).

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

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

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

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

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

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

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



(Y)

## **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:

- 1. 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
- 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										
	May		July	August	September	October	November	December		February
User Story Validation										
Test Practice Validation										
Sprint Planning										
Release / Deployment Planning										
OJT and KT Sessions										
Targeted KT										
Project Performance Metrics										
Organizational Maturity Metrics										
General Project Management										
Resource Management										
Total Open Findings	6	4	5	11	11	11	10	10	11	12
Issue - high			0	2	2	2	2	2	5	6
Issue - medium	3	0	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** 

ID	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
2	As a result of regression testing not being consistently performed, production releases	R3.3 introduced a defect that deprecated features in production specific to Integrated Support and Life Trajectory	Thorough vetting and validation of regression test cases is necessary to prevent both defects and the deprecation of	Having board(s) in Azure DevOps or a document or SharePoint that provides information about the	02/29/2024 - R4.5 development is ongoing. The soft code freeze was on 2/29/2024 and go-live is		Issue	Medium	Open		12/31/2019	Gautam Gulvady	_
	are breaking and/or deprecating existing	functionality. DDD has informed IV&V that there are other	production functionality when a release is pushed live. When	status of regression testing automation, to facilitate	planned for 3/28/2024. The project team	validation						Guivauy	1
	functionality in the production environment.	examples of functionality being deprecated after a release,	defects occur in production, the project should follow a defined	visibility and transparency to BHA project personnel	contemplated a mid-sprint deployment (MSD)								1
	, ,	some of which are still being investigated. As of this report,	and repeatable process for determining the root cause of the	and stakeholders.	for 3 items: Adverse Event Report (AER), Maui								1
		IV&V has not evaluated the project's root cause analysis (RCA)	problem.		Wildfire SMS, and ISP modifications) – AER was								1
		process used to determine why such functionality was		2. IV&V recommends reevaluating the schedule	deployed on 2/29/2024, and the remaining two								1
		deprecated but will discuss further with BHA in January 2020.		priorities by distributing the work according to the	will be deployed in R4.5. Tricentis coaching								1
				resource bandwidth. This will ensure that the schedule is not impacted and that the work is done	sessions and coding of the automated testing for R4.5 are ongoing. R4.5 regression testing								1
				efficiently between regression testing and Golden	execution is planned in mid-March 2024. BHA is								1
				Record (GR).	reporting the progress and status of automated								1
					regression testing. IV&V will continue to								1
				3. Pursue and complete additional formal training in	monitor and review automated regression								1
				AzureDevOps and Tricentis for test automation at the	testing results and status reporting.								1
				earliest possible juncture and complete efforts to	01/31/2024 - Tricentis coaching sessions and								1
				automate the 2 primary regression test scripts.	coding of the automated testing are ongoing.								1
				IV&V recommends DDD and CAMHD to develop a	R4.4 regression testing was done partly								1
				common and consistent approach across divisions for							1		1
				performing regression testing.	01/25/2024, five (5) post-production bugs		1	1	1	1	1	1	
					(severity: 2 critical, 1 high, 1 medium, 1 TBD)						1		1
				4. Determine if current regression testing timeframes							1		1
				are adequate and if not, add more time to the pre- production regression test efforts for all release	completion of automated regression test scripts is now provided in the weekly program status								1
				deployments.	report, however estimated completion dates								1
				Updating the regression test scripts to ensure	are not provided. BHA has started reporting the								1
				consistency with system configuration.	progress and status of automated regression								1
				Modifying release schedules to allow for regression	testing. IV&V will monitor and review the								1
				testing timeframes	automated regression testing results and status								1
				Planning releases by functionality type to avoid	reporting.								1
				unnecessary repetitive work being performed in any given section of the solution.	12/31/2023 - Tricentis coaching sessions and								1
				Performing regression testing after every release, or	coding of the automation is ongoing. Golden								1
14	Due to multiple quality concerns, the project	System defects identified in August that affected claims were	The identified quality issues have negatively affected DOH billing	Evaluate existing project staff skills and experience	02/29/2024 - Three (3) of four (4) post-	Project Management	Issue	High	Open		9/30/2020	Gautam	
	may continue to face impactful system	due to multi-faceted quality issues were individually addressed		level to ensure they meet BHA support requirements.		,		1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Gulvady	1
	defects.	during this reporting period. IV&V notes that there is one	defects discovered to date.		medium) have been fixed and tested (in the								1
		remaining defect still being evaluated that affects a limited		Perform revenue neutrality fiscal balance testing on a									1
		number of claims. Overall, the Project Team has responded		quarterly basis to ensure revenues are as expected.	fixes are to be deployed to production in R4.5.								1
		with a commitment to increase project quality and is in the		Assign dedicated resources to provide oversight of	One (1) post-production bug is yet to be created in DevOps. IV&V will monitor the progress and								1
		process of identifying improvements to associated testing processes. These currently include:Performing Revenue		CAMHD Fiscal Processes.	quality of R4.5.								1
		Neutrality Testing to ensure expected revenue streams are		CANTO FISCAL FIOCESSES.	quality of N4.5.								1
		largely unchanged from one period to the next. Conducting		Monitor implemented improvements for	01/31/2024 - R4.4 was deployed on								1
		System Integration Testing, User Acceptance Testing,		effectiveness.	01/25/2024. Five (5) post-production bugs						1		1
		Performance Testing, and Regression Testing for Release 3.10.		IV&V recommends performing an RCA in	(severity: 2 critical, 1 high, 1 medium, 1 TBD)		1	1	1	1	1	1	
		IV&V will continue to monitor the testing efforts throughout		collaboration with RSM after all future release	have been encountered, which the SI vendor						1		
		the balance of Release 3.10 and validate that enhanced quality		deployments for continual quality improvement.	and BHA are currently analyzing. IV&V will		1	1	1	1	1	1	
		processes, including industry standard regression testing, continue for Agile Release 3.11 forward. Finally, IV&V reviewed		BHA and RSM to collaborate on the necessary	monitor the progress. Priority was changed from Medium to High.						1		1
		and provided feedback on the Help Desk and Semantic Layer	1	revisions to the submitted design deliverables to	meadin to riigh.						1		1
		design documents per request and found that both documents		increase level of detail and quality.	12/31/2023 - R4.3 Golden Record (GR) mid-		1	1	1	1		1	
		lacked design details.		· ·	sprint deployment (MSD) went live on		1	1	1	1	1	1	
				Perform typical project testing including System	12/21/2023. IV&V is monitoring GR MSD for		1	1	1	1	I	1	
				Integration, User Acceptance, Performance, and	quality.						1		1
				Regression Testing.  Dedicate sufficient time in between releases for BHA	11/30/2023 - R4 3 went live on 11/00/22 ac		1	1	1	1	I	1	
				and RSM to execute/implement RCA correction	planned. A high-priority R4.2 post-production fix				1	l			1
				actions to reduce the volume of unplanned rework.	was deployed with R4.3. There are currently no						1		1
					R4.3 post-production bugs. IV&V will monitor		1	1	1	1	I	1	
					R4.3 for quality.		1	1	1	1	I	1	
	i	I	1						1	l			1
													1
					10/31/2023 - R4.3 development is progressing								
					well. Hard code was frozen on 10/24/23 and go-								
					well. Hard code was frozen on 10/24/23 and go- live is planned for 11/09/23. A high-priority R4.2								
					well. Hard code was frozen on 10/24/23 and go-								
					well. Hard code was frozen on 10/24/23 and go- live is planned for 11/09/23. A high-priority R4.2 post-production bug will be deployed with R4.3.								

demos will likely lead to misalignments between delivered work and stakeholders. They are essential building needs.  Including Sprint reviews and demos in future releases (R4.2 and navards) with all relevant stakeholders to associate the demostrated. Accordingly, the product owner.  Sprint demos, freviews showcase the main functionality to stakholders and incorprate their feedback. Currently, the project has joint testing involving the SI and BHA personnel. Per Agile Best practices, IW&V believes having Sprint demos/reviews during a sprint, with the development team, scrum master, and including Sprint reviews and demos in future releases (R4.2 and R4.6 new functionality/features that would demonstrations of new functionality/features as part of Sprint Reviews. Some dividenders to assess the completion of user stories, review important metrics and outcomes, and outcomes, and outcomes, and outcomes, and soutcomes, and soutco	Medium	Open		7/26/2023	Gautam Gulvady	
demos will likely lead to misalignments between delivered work and stakeholders. They are essential building a sprint, with the development team, scrum master, and louring a sprint, with the development team, scrum master, and louring a sprint, with the development team, scrum master, and louring a sprint, with the development team, scrum master, and louring a sprint with the development team, scrum master, and louring a sprint with the development team, scrum master, and incurrence was and demos in future releases R4.5 and R4.5 new functionality/features that would be demonstrated. Accordingly, the same to assess the completion of user stories, review showcase the main functionality, the project has joint testing involving the SI and BHA personnel. Per Agile Best practices, IV&V believes having Sprint demos/reviews during a sprint helps clarify and validate design prior to testing, between the team in the right direction and help avoid big mistakes. This would also allow the testing team to focus solely on testing, which is beneficial.  Conducted Sprint reviews and demos in future releases R4.5 and R4.5 new functionality/features that would be demonstrated. Accordingly, the same stakeholders to assess the team and stakeholders and incroprorate their feedback. Currently, the project has joint testing involving the SI and BHA personnel. Per Agile Best practices, IV&V believes having Sprint demos/reviews during a sprint between the head and stakeholders. This way, the team to review what's being delivered and receive feedback. This way, the team in the right direction and help avoid big mistakes. This would also allow the testing testing, Celebrating the team's and not later during testing, Celebrating the team's and not later during testing, Celebrating the team's and make observations earlier during development team, scrum master, and including Sprint reviews and demonstrations of new functionality/features as part of Sprint Reviews. Sprint Reviews. In advanced to the team on the reviews and demonstrated. Accor	weaturn	Ореп		7/20/2023		
between delivered work and stakeholders. They are essential building needs.  across the team and stakeholders. They are essential building blocks for better software and teams. Sprint demos /reviews showcase the main functionality to stakholders and incorporate their feedback. Currently, the project has joint testing involving the SI and BHA personnel. Per Agile Best practices, IXEV believes having Sprint demos/freviews during a sprint helps clarify and validate design prior to testing, steer the team in the right direction and help avoid big mistakes.  This would also allow the testing team to focus solely on testing, which is beneficial.  product owner.  (R4.2 and onwards) with all relevant stakeholders to assess the completion of user stories, review such the testing involving the SI and BHA personnel. Per Agile Best practices, IXEV believes having Sprint demos/freviews during a sprint helps clarify and validate design prior to testing, steer the team in the right direction and help avoid big mistakes.  This would also allow the testing team and stakeholders. They are essential building blocks for better software and teams. Sprint demos /reviews demos are crucial in bringing alignment across the team and stakeholders to assess the completion of user stories, review specification of the sesses that personnel. Per discussion of the sesses that previews/demos are crucial in bringing alignment across the team and stakeholders. It is a great opportunity for the product also help ensure the backlog is prioritized and well-prepared for the next Sprint. These are some recommendations for project alignment, stakeholder to also help ensure the backlog is prioritized and well-prepared for the next Sprint. These are some recommendations for project alignment, stakeholder to also help ensure the backlog is prioritized and well-prepared for the next Sprint. These are some recommendations for project alignment, stakeholder to also help ensure the backlog is prioritized and well-prepared for the next Sprint. These are some					Guivauy	
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testing involving the SI and BHA personnel. Per Agile Best practices, N&V believes having Sprint demos/reviews during a delivered and receive feedback. This way, the team can gauge sprint helps clarify and validate design prior to testing, steer the team in the right direction and help avoid big mistakes.  This would also allow the testing team to focus solely on testing, which is beneficial.  Woreover, they are invaluable in steering the team in the right to receive process in place. IV&V						
practices, IV&V believes having Sprint demos/reviews during a sprint helps clarify and validate design prior to testing, steer the team in the right direction and help avoid big mistakes.  This would also allow the testing team to focus solely on testing, which is beneficial.  The product bearing the team in the right direction and help avoid big mistakes.  Moreover, they are invaluable in steering the team in the right direction and help avoid big mistakes.  Moreover, they are invaluable in steering the team in the right repard for the next Sprint. These are some recommendations for project alignment, stakeholder recommendations for project alignment, stakeholder recommendations for project alignment, stakeholder recommendations for project alignment, quality assurance, transparency, and the incorporation of user feedback.  12/31/2023 - The vendor and BHA have a product backlog review process in place. IV&V		1				
sprint helps clarify and validate design prior to testing, steer the team in the right direction and help avoid big mistakes. This would also allow the testing team to focus solely on testing, which is beneficial.  Moreover, they are invaluable in steering the team in the right  Moreover, they are invaluable in steering the team in the right  recommendations for project alignment, stakeholder part of Sprint Reviews going forward.  engagement, quality assurance, transparency, and the incorporation of user feedback.  12/31/2023 - The vendor and BHA have a product backlog review process in place. IV&V						
the team in the right direction and help avoid big mistakes.  This would also allow the testing team to focus solely on testing, which is beneficial.  Moreover, they are invaluable in steering the team in the right product backlog review process in place. IV&V						
This would also allow the testing team to focus solely on accomplishments is also an essential part of these demos. testing, which is beneficial.  Moreover, they are invaluable in steering the team in the right  the incorporation of user feedback. 12/31/2023 - The vendor and BHA have a product backlog review process in place. IV&V						
testing, which is beneficial. Moreover, they are invaluable in steering the team in the right product backlog review process in place. IV&V						
the Sprint demo could bring to light bugs such as R4.1 bug 34055 development teams and stakeholders by enhancing observe the product backlog review process						
on the Portal, where the checkbox is on the left of the text. communication channels. Regularly validate project and will monitor future Sprint reviews.						
objectives and ensure that sprint deliverables remain						
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		1	1	1	1	1
stakeholders during both Sprint Reviews and Sprint and will monitor future Sprint reviews. This was		1	1		1	
Demos. Emphasize the value of iterative feedback to changed from a Preliminary Concern to a		1	1		1	
guide development and ensure that user needs are Medium-priority Risk.		1	1		1	
consistently met.		1	1	1	1	1
10/31/2023 - The vendor has confirmed that		1	1	1		
3. Establish standardized communication protocols they will provide demonstrations of new		1	1	1	1	1
for both Sprint Reviews and Sprint Demos. Encourage functionality/features as part of Sprint Reviews		1	1	1	1	1
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.						
		1	1		1	
4. Create a stakeholder register to identify all 09/30/2023 - RSM conducted some demos		1	1		1	
stakeholders. List their identification, assessment, during the emergency wildfire-related						
and classification. Review the register regularly to communications for the email and SMS tools.						
	Medium	0		7/10/2023	Gautam	
be delayed. Project continues to be to Ssues with the counterin Rector (per) project continues to be delayed as project may experience delays and a shift in focus from critical (BR is impacting the IMSPIRE release schedule. E.g., mid-spire) and develop a RACI matrix for B. meet in March 2024 to darify open questions, Planning	iviedium	Open		//10/2023	Gulvady	
					Guivady	
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 stories dependent on it. The deployment of the GR has reviewing original requirements and evaluating if BHA needs to 2. Recommend that BHA works with IV&V to assess completed and questions around potential 3rd-						
been postponed to 08/19/2023, resulting in the transfer of revisit the design.  GR critical issues to assist in determining the path party tool integration, to come to a common						
approximately 150 story points into R4.2 and subsequent forward. understanding about the scope and planned						
releases. However, it is unclear which releases will include the						
GR-related user stories 3. Prior to implementation of the GR, needed updates schedule, and cost impact.						
to the consent form should be confirmed and						
completed, policies/procedures for all users should 01/31/2024 - While Golden Record (GR) mid-						
be confirmed, and all open defects should be sprint Deployment (MSD) was deployed on		1	1	1	1	1
resolved. 12/21/2023, stakeholders across the project		1	1	1	1	1
appear to have different understandings of		1	1	1	1	1
4. Identify the objective of implementing GR, where GR stands. IV&V sent an email on		1	1	1	1	1
benefits, current gaps in design, effort estimates, 01/31/2024 recommending stakeholders have a		1	1	1	1	1
resource commitments, and impact of having/not good common understanding of the Golden		1	1		1	
having GR. Record (GR) functionality development		1	1		1	
(including, related regression testing) and		1	1		1	
5. Analyze the impact on future functionalities and deployment, and the common understanding		1	1		1	
assess the implications if this strategic change is and plans are communicated to all		1	1	1	1	1
needed. stakeholders. The plan is to discuss and resolve		1	1	1		
the issue, e.g., during resumed GR working		1	1		1	
6. GR working sessions should be resumed until there session meetings, so a common statement of		1	1		1	
is clarity on remaining work to be completed, understanding can be provided to all		1	1		1	
timeline for completion, etc. Stakeholders. This finding was changed from a		1	1	1	1	1
Risk to an Issue.		1	1		1	
		1	1		1	
12/31/2023 - Golden Record (GR) mid-sprint		1	1		1	
12/31/2029 ** (Observed to the Control of the Contr		1	1		1	
depinyment (unbud) went une unbud) went une unbud) explored. S. RSM and BHA finalizing the GR regulations.		1	1	1	1	1
Known also than Initiating till be the redutines the checklist and SQPs in order for GR production		1	1	1		
		1	1	1	1	1
data to be used. CAMHD and DDD to review the		1	1	1		
audit report currently available to determine if		1	1		1	
it meets BHA's needs. IV&V will continue to		1	1		1	

ID Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
Performance bottlenecks with the INSPIRE production environment may result in low productivity and poor user experience.	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 CAMHID functionality, transactions/functionality that are performance intensive, eg., calculator functionality 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.	performance test.  01/31/2024 - IV&V to discuss the criteria for selecting upcoming release(s) for performance testing (as 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 ditermine whether the contractor is responsible for addressing performance issues under the draft contract	Project Management	Issue	Medium	Open		8/18/2023	Gautam Gulvady	
34 Shortage of Behavioral Health Administrati (BHA) project resources could lead to reduced productivity and project delays.	on 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 projecteam 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.	business analyst position to address resource shortages.  t  10/31/2024 - There continue to be significant project resource shortages, as per the resource		Issue	High	Open		8/18/2023	Michael Fors	

ID	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
25	Lack of an engoing cleanup process were land	P2 22 work started, and the Styondar was working with DUA	A cleaned up Azura DayOns anvironment would seekle the team	1 DoyOne cleanup is an oppoing process. The ware	03/30/2034 Standardizing (ongoing access)	Broject Management	Drolimina	NI/A	Open		9/2/2022	Gautam	
335	to clutter and reduce Azure DevOps effectiveness in supporting the INSPIRE project management and tracking needs.	R3.33 work started, and the SI vendor was working with BHA on the Statement of Work (SOW). BHA made the decision not to implement R3.33 and moved on to the next big phase of work, starting with R4.1. Project team members will see some references to R3.31 hazure DevOps, which are incorrect and should be updated to R4.1, or an appropriate future release. There is still cleanup happening for items that are in the parking lot, which may state R3.33 until those items are assigned to a release.	effectiveness (trending as improvements, e.g., fewer post-		(on-going process) the tags used in Azure DevOps and their usage, and are cleaning up the Azure DevOps environment. E.g., the four (4) R4.4 post-production bugs are tagged "Post Go-Live Bug", IV&V will monitor the progress.  12/31/2023 - RSM and BHA are standardizing (on-going process) the tags used in Azure DevOps and their usage, and are cleaning up the Azure DevOps environment. The tags will be used from R4.4 onwards. This should help optimize the workflow and make it more	Project Management	Preliminary Concern	N/A	Open		8/2/2023	Gautam Gulvady	
					standardize the tags used in Azure DevOps and their usage, to clean up the Azure DevOps								
20	Last of a compact cost of color	Desirat made in suscina mither to suscinate sheet de in slave	Desirat words in accessing without a region to about the in place	1 Fatablish a place are instrument of a second		Desired Management	laaa	Hinh	0		8/29/2023	Cautan	
36	Lack of a comprehensive project schedule could lead to missed tasks, project delays, and cost overruns.	Project work is ongoing without a project schedule in place. Some current project work is considered Malintenance and Operations, but there is new work to be completed as well.	Project work is ongoing without a project schedule in place. Some current project work is considered Maintenance and Operations, but there is new work to be completed as well.	1. Establish a clear project schedule management plan that outlines roles, responsibilities, and accountability for schedule adherence. 2. Create and baseline a comprehensive project schedule in MS project, Smartsheet, or a similar tool, containing tasks for both SI vendor and State, task dependencies, and resourcing. 3. Implement regular schedule reviews and updates to ensure alignment with project objectives and milestones.	02/29/2024 - 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 noce the start date is known. IV&V recommends also developing a schedule for Phase 4.  01/31/2024 - Delays in executing the Data Sharing Agreement (DSA) contract between DDD and MQD. The Department. of Human Services (DHS) has delayed the commencement of the Analytics project. IV&V has yet to see a comprehensive project schedule for the Analytics module. The priority has changed from Medium to High.  12/31/2023 - IV&V reviewed the vendor's final proposal regarding an approach to maintaining a complete project schedule as requested by the RFP. The vendor has communicated the Analytics module.  11/30/2023 - The vendor has communicated that they provided their approach to maintaining a complete project schedule, in		Issue	High	Open		8/29/2023	Gautam Gulvady	

ID	Finding	Finding Statement	Analysis and Significance	Recommendation	Finding Update	Category	Туре	Priority	Status	Closed Date	Identified Date	Owner	
ID		Finding Statement  Several post-production bugs have been encountered in the Phase 4 release, R4.4.	Analysis and Significance  Regarding the bug, "Human Services Research Institute (HSRI) flow is failing in production" (bug# 34886 https://dev.azure.com/DOHBHA/DOH%20BHA%20INSPIRE/_worktems/edif/34886), what is in development and deployed is vastly different from what was deployed to production.  The root cause for these errors is currently being investigated. Repeatable documented release and deployment and resources experienced with deployments will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when deployments take place.	1. The Project should consider automating deployments for resource savings, increased efficiency, consistency, faster time to market, improved collaboration and reliability, scalability, version control integration, and rollback capability.  2. Ensure there are adequate and qualified resources to support the current deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components.  3. As appropriate, consult with RSM on best practices that BHA could employ to support deployment.  4. Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with the consistency of configurations	02/29/2024 - Three (3) of Four (4) post- production bugs (severity: 2 critical, 1 high, 1 medium) have been fixed and tested (in the development and test environments) and are to be deployed to production with R4.5. One (1) post-production bug is yet to be created in DevOps. IV8.4 will monitor the progress and quality of the R4.5 deployment after deployment on 2/29/2024. Three (3) of these are deployment-related, and two (2) of the deployment-related bugs were critical. IV8.V will monitor the progress and quality of the R4.5 deployment once R4.5 is deployed in March 2024.  1/31/2024 - R4.4 was deployed on 01/25/2024. Five (5) post-production bugs (severity: 2 critical, 1 high, 1 medium, 1 TBD)	Release/Deployment Planning	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Priority High	Open	Closed Date	1/25/2024	Gautam Gulvady	
				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.  5. Request the assistance of the RSM Solution Architect in review of deployment scripts as a double check for accuracy and completeness prior to commencing deployment activities.  6. The Project Team should consider evaluating potential changes to improve/enhance existing	monitor the progress.								
				processes and communications to address current release/deployment shortfalls.  7. IV&V recommends performing an RCA in							. (0.)		
	Improvements to the testing process are needed to ensure comprehensive testing of new functionality prior to production deployment.	There is a limited understanding of the testing processes and the roles and responsibilities of those involved in the process. There is no formal process for the development, review, and approval of test scenarios, test cases, and test results to ensure adequate participation and approval from state staff.	When testing user stories 34564 and 34756 on 1/31/24, the test tasks did not reflect the real use cases to give stakeholders adequate confidence that the user story could be tested. As a result, time was expended by testing resources, testing was inadequate, and a user story may have been deemed to meet functionality when it did not.	1. Identify stakeholders (output is stakeholder register) and develop a RACI matrix for testing.     2. Review the overall testing process and implement any needed improvements identified.	02/29/2024 - CAMHO is developing a Stakeholder registry and RACI matrix to address adequate statewide participation in the testing process.  01/31/2024 - When testing user stories 34564 and 34756 on 1/31/24, the test tasks did not reflect the real use cases to give stakeholders adequate confidence that the user story could be tested.	Test Practice Validation	Issue	High	Open		1/31/2024	Gautam Gulvady	

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