

### OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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October 8, 2021

The Honorable Ronald D. Kouchi,
President, and
Members of The Senate
Thirty-First State Legislature
Hawaii State Capitol, Room 409
Honolulu, Hawaii 96813

The Honorable Scott K. Saiki, Speaker, and Members of The House of Representatives Thirty-First State Legislature Hawaii State Capitol, Room 431 Honolulu, Hawaii 96813

Dear 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 Hawaii Department of Health Hawaii 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 Chief Information Officer State of Hawai'i

Attachment (2)



# Hawaii BHA Integrated Case Management System Project – *Phase 3*

Final IV&V Report for the period of

September 1 – September 30, 2021

Final submitted: October 8, 2021



### **Agenda**

Executive Summary

IV&V Findings & Recommendations

### **Appendices**

- A Rating Scales
- B Inputs
- C Project Trends





### **Executive Summary**

Release 3.18 was deployed to production on 9/26/2021 with just a few post-production issues. The Project's ongoing focus on improving quality continued to net positive gains during the month of September and has attributed to IV&V's decision to reduce the criticality of the Release/Deployment Planning finding.

IV&V continues to remain concerned about BHA resource constraints, the amount of unplanned rework, and the delivery of big boulder functionality within the current DDI timeframes. We will continue to monitor these concerns moving forward.

Jul	Aug	Sep	Category	IV&V Observations
R	R	R	Sprint Planning	BHA is currently interviewing for their open ITS4 position. The approval to post the second mid-level technical resource is still pending. The Project continues to discuss how best to address the planned reduction of RSM resources and the need for custom code developers to support the Calculator 3.0, Portal, and any other custom code components. The criticality rating for this category remains Red (high) for the September reporting period.
G	G	G	User Story (US) Validation	There are no active findings in User Story (US) Validation category which remains Green (low criticality) for the September reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.
R	Y	Y	Test Practice Validation	The Project continued to improve the quality of end-to-end regression testing for both divisions in September. Release 3.18 was promoted to production on 9/26/2021 with a few post-production issues. The planned effort to develop automated regression testing remains on hold due to resource constraints.



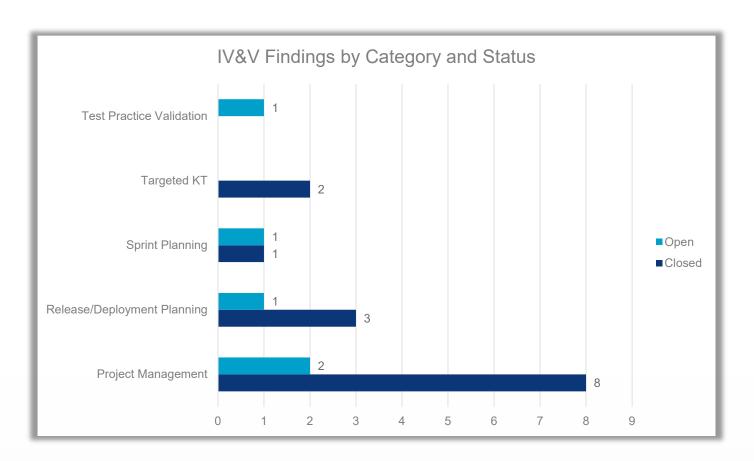
### **Executive Summary**

Jul	Aug	Sep	Category	IV&V Observations
R	R	R	Release / Deployment Planning	Release 3.18 was promoted to production on 9/26/2021 with just a few issues. The Project continues to improve their release/deployment practices with positive gains. As a result, IV&V has reduced the criticality of the finding in this category from a high to medium issue but will keep the rating for this category a Red (high) to monitor for sustained improvements.
G	G OJT and KT Sessions The criticality rating for the OJT and KT Sessions category remains Green (low) for the September reporting period with no active findings.		The criticality rating for the OJT and KT Sessions category remains Green (low) for the September reporting period with no active findings.	
G	G	G	Targeted KT	There are no active findings in this category which remains Green (low criticality) for the September reporting period. IV&V will continue to monitor this category moving forward.
G	G	G	Project Performance Metrics	The Project implemented 100.5 User Story Points for Release 3.18 exceeding the planned User Story Points of 81. IV&V will keep the criticality rating for this category a Green (low) and will continue to monitor this category moving forward.
G	G Organizational Maturity Assessment The next OMA is scheduled for October 6, 2021. The criticality rating for the Organizat Maturity Assessment (OMA) category remains Green (low).		The next OMA is scheduled for October 6, 2021. The criticality rating for the Organization Maturity Assessment (OMA) category remains Green (low).	
R	Y	Y	Project Management	Quality improvement efforts continued throughout the month of September which has resulted in a few post-production issues found in Release R3.18 deployed on 9/26/2021. The criticality rating for this category remains a Yellow (medium) for the September reporting period.



### **Executive Summary**

As of the September 2021 reporting period, there are a total of five open findings – one High Issue and four Medium Issues spread across the Sprint Planning, Release / Deployment Planning, Test Practice Validation, and Project Management assessment areas.





### **Assessment Categories**

Throughout this project, IV&V will verify and validate activities performed in the following process areas:

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



## IV&V Findings & Recommendations Sprint Planning

#	Key Findings	Criticality Rating
8	High Issue - The BHA Technical Team bandwidth may not be adequate to meet the needs of the project, which could compromise project productivity. BHA received multiple candidates for the open ITS4 position and is currently interviewing the most qualified candidates. A candidate selection is anticipated in October. BHA has not received approval to post its second (lower level) technical position. RSM has provided ongoing Calculator 3.0 knowledge transfer sessions to BHA staff during the month of September. IV&V will continue to monitor this high priority issue until resolved.	H
Recor	nmendations	Status
BHA needs, and should pursue, additional Knowledge Transfer sessions on the updated Calculator 3.0 solution.		
	Project should investigate mechanisms of increasing the bandwidth of the BHA Technical Team, either by ling resources through new hires, or vendor contracts.	In progress
	e Project should assess, where possible, if there are responsibilities of the BHA Technical Team that can reassigned to other project staff.	In progress
	Project should evaluate where process inefficiencies can be addressed and streamlined to possibly free the BHA Technical Team's availability.	In progress



## IV&V Findings & Recommendations Sprint Planning

Recommendations	Status
The Project should consider the formation of a first level resource team to triage/address pro a timely manner, without disrupting new development work.	oduction defects in In progress
The Project should consider procurement of an online training toolset to support OCM and to offset the need for in-person training.	echnical efforts to  Completed



### **Test Practice Validation**

#	Key Findings	Criticality Rating
2	Medium Issue – As a result of regression testing not being consistently performed, production releases are breaking and/or deprecating existing functionality in the production environment. The Project's focus on the quality of end-to-end regression testing (for both divisions) again resulted in positive progress in September. R3.18 was promoted to production on 9/26/2021 with a few post-production issues that are currently being reviewed.  The planned effort to develop automated regression testing remains on hold until additional resources are made available to the BHA Team. IV&V will continue to monitor this medium priority finding.	M

Recommendations	
<ul> <li>Pursuing additional formal training in AzureDevOps for test automation at the earliest possible juncture and commence efforts to automate at least the 2 primary regression test scripts.</li> </ul>	In Progress
<ul> <li>IV&amp;V recommends DDD and CAMHD to develop a common and consistent approach across divisions for performing regression testing.</li> </ul>	Completed
Determine if current regression testing timeframes are adequate and if not, add more time to the pre- production regression test efforts for all release deployments.	Completed
Updating the regression test scripts to ensure consistency with system configuration.	Completed



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

Recommendations	Status
Modifying release schedules to allow for regression testing timeframes.	Completed
<ul> <li>Planning releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution.</li> </ul>	Completed
<ul> <li>Performing regression testing after every release, or possibly every other release, or potentially tying regression tests to full solution upgrade releases. In addition, consider alternating the DDD and CAMHD scripts every other release.</li> </ul>	Completed
<ul> <li>Modifying regression test scripts to start AFTER case creation, limiting the time it takes to execute.</li> <li>(This recommendation was for a point in time and is no longer valid.)</li> </ul>	Completed
• Implementing 'hard' code freeze dates as well as test environment deployment dates to ensure that testing and deployment activities are not rushed.	Completed
Modifying the deployment scripts based on information gained from previous release deployments.	Completed
Consulting with RSM to determine how the 'interim testing processes' can be improved until such time that automated testing is available for repeatable and complete industry standard regression testing.	Completed
IV&V recommends performing an RCA in collaboration with RSM for the continued concerns with regression testing efforts.	Completed



### **Release / Deployment Planning**

#	Key Findings	Criticality Rating
19	Changed from High Issue to Medium Issue - Due to ongoing deployment processes and technical execution issues, the Project may continue to encounter defects and challenges in meeting projected timelines for production and non-production deployments. R3.18 was promoted to production on 9/26/2021 with a few post-production issues that are currently being reviewed. The Project Team is including additional detail in the deployment scripts to ensure all requirements of the deployment effort are identified and addressed. Based on the recent deployment successes in releases R3.16 through R3.18, IV&V is reducing the criticality of this finding to medium. IV&V notes that the next release (R3.19) will be deployed as a full solution upgrade, which includes a compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding.	M

Recommendations	Status
<ul> <li>Ensure there are adequate and qualified resources to support the current deployment processes. This may require the support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components.</li> </ul>	In Progress
<ul> <li>Work in collaboration with RSM to establish a transition plan for DOH to assume all deployment activities to ensure complete ownership of these processes. This should assist with consistency in approach and execution going forward.</li> </ul>	In Progress
As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	In Progress



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

Recommendations	Status
<ul> <li>Request the assistance of the RSM Solution Architect in reviewing and correcting issues associated with consistency of the configurations across environments, ensuring that the test environment is capable of testing ALL functions of any given release without the need for using multiple test environments.</li> </ul>	In Progress
<ul> <li>Request the assistance of the RSM Solution Architect in review of deployment scripts as a double check for accuracy and completeness prior to commencing deployment activities.</li> </ul>	In Progress
The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.	In Progress
<ul> <li>IV&amp;V recommends performing an RCA in collaboration with RSM for the continued concerns surrounding environment differences.</li> </ul>	In Progress
<ul> <li>IV&amp;V recommends updating the Project's Configuration Management Plan to address the current needs of the Project. This should include specific checklists geared at ensuring repeatable promotional processes by DOH.</li> </ul>	In Progress
<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>	Completed
Ensure an operational and fully functional test environment is available to effectively conduct end-to-end regression testing prior to deploying a release to production.	Completed



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

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



#	Key Findings	Criticality Rating
15	Medium Issue - Due to multiple quality concerns, the Project may continue to face impactful system defects. The Project's focus on quality again resulted in positive progress in September. R3.18 was promoted to production on 9/26/2021 with a few post-production issues identified that are currently under review. IV&V will continue to monitor this medium priority finding.	M
Recor	nmendations	Status
• Eva	aluate existing project staff skills and experience level to ensure they meet BHA support requirements.	Open
• Per	form revenue neutrality fiscal balance testing on a quarterly basis to ensure revenues are as expected.	In Progress
• Ass	sign dedicated resources to provide oversight of CAMHD Fiscal Processes.	In Progress
Monitor implemented improvements for effectiveness.		In Progress
	V recommends performing an RCA in collaboration with RSM after all future release deployments for tinual quality improvement.	Completed
	A and RSM to collaborate on the necessary revisions to the submitted design deliverables to increase el of detail and quality.	Completed
	form typical project testing including System Integration, User Acceptance, Performance, and Regression sting.	Completed



Recommendations	Status
• Dedicate sufficient time in between releases for BHA and RSM to execute/implement RCA correction actions to reduce the volume of unplanned rework.	Completed



#	Key Findings	Criticality Rating
13	<b>Medium Issue – PII/PHI data in non-production environments.</b> There was no substantive change to this finding in September. This effort remains on hold until additional staff are available to support. IV&V will continue to monitor this medium priority security finding.	M

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

#	Key Findings	Criticality Rating
22	Preliminary Concern – Unplanned rework may have an impact on delivering DDI functionality by the end of the DDI period. Defect resolution remained at 38% of all delivered user story points during August and September. While slightly improved over previous months, the Project continues to see a higher-than-expected volume of unplanned rework due to the amount of defect fixes released to production. IV&V will continue to monitor this preliminary concern moving forward.	N/A



#	Key Findings	Criticality Rating
23	Preliminary Concern – The project schedules for 'big boulder' interface functionality development are slipping. The HHIE Single Sign On (SSO) solution was deployed to production in R3.18, however HHIE still needs to complete the configuration on their side to enable this functionality to work. Other 'big boulder' schedule slippages were observed in September, largely due to third party delays. While some preliminary components were completed and deployed to production for other 'big boulder' items in R3.18, deployment of the Clinical Review Process interface, Provider Portal, HHIE ADT/Labs interface, CAFAS interface, Provider Interface Files, and Calculator 3.0 Improvements have all been moved to R3.19. The Customer Portal Rollout is currently planned for R3.20 and the FHIR interface will be delayed until 2022 to align with updated program needs.	N/A



#	Key Findings	Criticality Rating
24	Preliminary Concern – The current DDI period expires at the end of December 2021 which will require RSM to transition the D365 solution to the State prior to contract end. The Project continues discussions for extending the DD&I effort while the previously planned slowdown of DD&I work continues through the remainder of the 2021 calendar year. A new IAPDU is being developed for submittal with a goal to obtain funding for technical project resources through May 2023. IV&V will continue to monitor.	N/A



### **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 for Phase 3</li> </ul>	September – Available velocity was estimated at 81 user story points for R3.18, and a total of 100.5 USP's were promoted to production on September 26, 2021.  IV&V notes that RSM includes USP counts from Mid Sprint Deployments prior to a planned release as component of the planned release.  Overall, the cumulative Phase 3 targeted USP's through R3.18 was planned for 1,497. The actual cumulative USP total is 1,928.8. This continues to exceed expectations for volume of work performed.	N/A

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

Metric	Description	IV&V Observations	IV&V Updates
Defect Metrics	Understand and track the following:  Defects by category (bug fixes)  US Points assigned to defects in a release vs US Points assigned to planned US in a release	<ul> <li>September – R3.18 was deployed to production on September 26, 2021. A total of 100.5 USP's were promoted to production.</li> <li>62% of the total USP's were associated planned user stories and requests</li> <li>38% of the total USP's were associated with defects that were either encountered during the release or pulled from the backlog</li> </ul>	N/A

### **Organizational Maturity Assessment**

Measure IV&V Observations

The next OMA will be planned for October 6, 2021.



# **Appendix A: IV&V Rating Scales**

## **Appendix A**IV&V Rating Scales

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

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

The assessment category is under control and the current scope can be delivered within the current schedule.

The assessment category's risks and issues have been identified, and mitigation activities are effective. The overall impact of risk and issues is minimal.

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

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



The assessment category's risk and/or issues have been identified, and further mitigation is required to facilitate forward progress. The known impact of potential risks and known issues are likely to jeopardize the assessment category. Schedule issues are emerging ( > 30 days but < 60 days late).

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

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



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

Significant schedule issues exist (> 60 days late). Milestone and task completion dates will need to be re-planned.

Executive management and/or project sponsorship attention is required to bring the assessment category under control.



### **Appendix A**

### **Finding Criticality Ratings**

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

# **Appendix B: Inputs**

### **Appendix B**

### **Inputs**

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

### Meetings attended during the September 2021 reporting period:

- Daily Scrum Meetings (selected)
- 2. Twice Weekly RSM Issues Meeting
- 3. Weekly BHA-ITS Project Status Meeting
- 4. Bi-Weekly Check-in: CAMHD
- Bi-Weekly Check-in: DDD
- 6. BHA IAPDU Planning Meeting
- 7. IV&V Draft IV&V Status Review Meeting with DOH
- IV&V Draft IV&V Status Review Meeting with RSM and DOH
- 9. R3.18 Deployment Meeting

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

### Artifacts reviewed during the September 2021 reporting period:

- 1. Daily Scrum Notes (selected)
- 2. Twice Weekly Issues Meeting Notes (selected)
- R3.18 Release Notes





# **Appendix C: Project Trends**

# **Appendix C Project Trends**

Trend:	Overall	l Projec	t Health	1							
Process Area		2020-2021									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
User Story Validation											
Test Practice Validation											
Sprint Planning											
Release / Deployment Planning											
OJT and KT Sessions											
Targeted KT											
Project Performance Metrics											
Organizational Maturity Metrics											
General Project Management											
Total Open Findings	11	11	10	11	8	8	8	10	8	8	
Issue - high	0	0	4	4	4	4	4	4	2	1	
Issue - medium	4	4	0	0	0	2	2	2	3	4	
Issue - low	0	0	0	0	0	0	1	1	0	0	
Risk - high	0	0	0	0	0	0	0	0	0	0	
Risk - medium	2	2	2	2	4	0	0	0	0	0	
Risk - low	3	3	4	4	0	1	0	0	0	0	
Preliminary Concern	2	2	0	1	0	1	1	3	3	3	



**Solutions that Matter** 

ID No	Identified Date	Title	Observation	Significance	Recommendation	Updates	Process Area	Finding Type	Priority	Status	Closure Reason	Risk Owner
1.000	12/31/2019	Detailed investigation into the project's sprint planning processes and adoption of generally accepted agile best practices.	investigating the following topics as they relate to Sprint Planning and the project's overall approach to agile software development:  - IV&V acknowledges that the project is now	will help the project manage scope and productivity. Relatedly, the "definition done" is an important artifact to ensure that the project is successful. Otherwise, the project will struggle to prioritize requests/enhancements and manage scope.	III	01/31/2020 - IV&V is closing this concern, and will be tracking items related to Definition of Done, roadmap, resourcing, and backlog grooming in new, separate findings.	Sprint Planning	Concern	N/A	Closed	Due to multiple new items being tracked at a more granular level, this item has been closed.	V Ramesh
2.000	12/31/2019	As a result of regression testing not being consistently performed, production releases are both breaking and 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.	To address regression testing, the Project should continue to pursue and/or consider:  1. Updating the regression test scripts to ensure consistency with system configuration - Completed  2. Modifying release schedules to allow for regression testing timeframes - Completed  3. Grouping releases by functionality type to avoid unnecessary repetitive work being performed in any given section of the solution - Completed  4. Performing regression testing after every release, or possibly every other release, or potentially tying regression tests to full solution upgrade releases. In addition, consider alternating the DDD and CAMHD scripts every other release - Completed  5. Modifying regression test scripts to start AFTER case creation, limiting the time it takes to execute - Completed  6. Modifying the deployment scripts based on information gained from previous release deployments - Completed	09/30/2021 - The Project's focus on the quality of end-to-end regression testing (for both divisions) again resulted in positive progress in September. R3.18 was promoted to production on 9/26/2021 with a few post-production issues that are currently being reviewed.  The planned effort to develop automated regression testing remains on hold until additional resources are made available to the BHA Team. IV&V will continue to monitor this medium priority finding. 08/31/2021 - The Project's focus on the quality of end-to-end regression testing (for both divisions) resulted in positive progress in August. Release 3.17 was promoted to production on 8/15/2021 with a couple of defects that were not caused by the release.  Due to current resource constraints, the Project has decided to delay efforts to implement automated regression testing until late in the year. BHA is in discussions with Microsoft about potentially leveraging more Microsoft staff to assist with this endeavor; however, the timing needs to dovetail with BHA resource availability.	Test Practice Validation	Issue	Medium	Open		D Macdonald

3.000	12/31/2019	Usage of open source JavaScript	IV&V learned in	Open source tools and frameworks	IV&V recommends BHA work to	08/31/2020 - IV&V is unaware of any	Targeted KT	Risk	Low	Closed	RSM has	D Macdonald
3.000	12/31/2013	framework for development and		offer organizations great	establish a reliable and repeatable	additional KT gaps being identified by DOH,	raigeted Ki	Misk	LOW		successfully	Diviacaonala
		ongoing maintenance of Calculator	Calculator 3.0	opportunities to build and configure	•	and as such, is closing this finding.					held several	
		3.0 requires BHA to take a proactive		customized solutions at lower costs	communal updates and support	and the second of the second o					KT sessions	
		approach to support and security.		than through software purchase or	opportunities for a new suite of tools -	07/31/2020 - The Project resolved the					for this	
		,	JavaScript framework. As	licensing. However, open source	Completed	majority of the outstanding Calculator 3.0					technology	
			this framework is	tools and frameworks often do not	IV&V recommends BHA continue to	defects during July which was implemented					and	
				come with support models, other	hold targeted KT sessions with RSM on	in the mid-sprint release on 7/17/2020. The					functionality,	
			source support	than those offered through the	maintaining Calculator 3.0 via a suite of	final Calculator 3.0 Knowledge Transfer					and DOH	
				tool's community. Because of this,	tools, and determine what additional	session was conducted on 7/17/2020. IV&V					staff have	
			IV&V's concerns include:	the organization bears the weight of	skillsets, training, and/or resources are	recommends BHA to identify and					stated that it	
			- The availability of	seeking out reliable help and	needed to support BHA's long-term	communicate any additional KT gaps to					was well	
			reliable support for	support, as well as much take a	ownership of Calculator 3.0 - Completed	RSM during the month of August. If no					received.	
			Vue.JS	proactive approach to security and		additional needs are identified, IV&V will						
			- The project's	identifying any vulnerabilities in the		close this finding.						
			understanding of any	tools.		06/30/2020 - The project continued to						
			known vulnerabilities			focus attention on the Calculator 3.0						
			with Vue.JS, and			defects during the month of June. RSM						
			development of a process			conducted another Calculator 3.0						
			to remain current on			Knowledge Transfer session on 6/26/2020						
			vulnerabilities discovered			and scheduled a final session for						
			by the support			7/17/2020.						
			community.									
			- The RSM lead for			05/31/2020 - The project continued to						
			Calculator 3.0 went on			focus attention on the Calculator 3.0 user						
			extended parental leave			stories and defects during the month of						
			in December 2019			May. RSM conducted another Calculator 3.0						
5.000	1/31/2020	Due to the project not following a	There have been several	A complete, up to date, and	IVV recommends documenting	12/31/2020 - IV&V has closed this issue as	Release/Deployme	Issue	Medium		, ,	D Macdonald
		detailed deployment script, the	defects pushed to	documented deployment script is	deployment scripts for both the patch	the related recommendations below has	nt Planning				has been	
		project may continue to experience	production with Phase 3	needed to ensure the repeatability	method and the full solution upgrade	been completed. A subsequent medium		l			addressed	
		defects related to deployment	releases. Some of the									
				and stability of DOH's production	method. The script(s) should be in the	issue finding (#19) has been opened to					and	
	1	activities.	defects introduced to	deployments. Since there are	form of a step-by-step procedure that	issue finding (#19) has been opened to address ongoing deployment processes and					and proposed	
			defects introduced to production have been	deployments. Since there are currently two deployment types	form of a step-by-step procedure that walks through from start to finish of the	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues.					and proposed IV&V	
			defects introduced to production have been narrowed down to	deployments. Since there are currently two deployment types (patches and full solution	form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to					and proposed IV&V recommenda	
			defects introduced to production have been narrowed down to environmental	deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be	form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff availability	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately					and proposed IV&V recommenda tions have	
			defects introduced to production have been narrowed down to environmental promotional activities. In	deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process	form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when primary	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues. 11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after					and proposed IV&V recommenda tions have been	
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			defects introduced to production have been narrowed down to environmental promotional activities. In these instances, the DEV and TEST environments were not in sync with the production environment (missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2 with RSM providing instruction and DOH staff physically executing the tasks and activities via	deployments. Since there are currently two deployment types (patches and full solution upgrades), two scripts may be warranted. An embedded process and documented script will help ensure that mistakes are minimized, and that functionality is not mistakenly deprecated when	form of a step-by-step procedure that walks through from start to finish of the deployment process and involve several technical staff to ensure staff availability to accomplish these tasks when primary deployment personnel are unavailable. Standardize the content of all developer deployment task notes, with a goal of eliminating any potential ambiguity to the Deployment Team, resulting in a cleaner and more repeatable set of	issue finding (#19) has been opened to address ongoing deployment processes and technical execution issues.  11/30/2020 - Release 3.10 was promoted to production on 11/11/2020. Approximately nine (9) new defects were identified after the deployment. Root causes are suspected to be a combination of insufficient testing from a business perspective coupled with deployment issues. A bulk record update task required as part of the implementation was not included in the deployment, resulting in contacts being deprecated from the Circle of Support in Inspire. It is unclear if any other deployment issues may have also contributed to the new defects. Deployment corrections were applied in a mid sprint release on 11/27/2020. Based on the recurrence of this finding, IV&V has changed this Risk to an Issue and will continue to monitor until resolved.					and proposed IV&V recommenda tions have been completed. A subsequent finding #19 has been created to address on- going deployment processes and technical execution	

6.000	1/31/2020	The project lacks a documented 'Definition of Done", which could challenge the project's ability to fully achieve the goals of Phase 3.	documented 'Definition of Done' (DOD) for the BHA Top 100 User Stories of for Phase 3. Because of this, it is unclear how proposed functionality/features are prioritized for each sprint, and throughout Phase 3.	develop a Roadmap for Phase 3. Without the 'Definition of Done' document, the project is likely to struggle to prioritize proposed functionality/features which may be equally important but are at odds with each other.	team before end of Feb 2020 IV&V recommends that the project consider the items from the prioritized list, available resources and define "Done" as a percentage of the identified priority list with room for flexibility to add any other features/enhancements that will be identified during Phase 3.	recommends the project continually review and update the Definition of Done, adjusting as/if necessary. IV&V will continue to monitor the project's adherence to Definition of Done and progress against it but is closing out this concern as of the February report.		Concern	N/A	Closed	Definition of Done completed and socialized.	V Ramesh
7.000	1/31/2020	The lack of consistent backlog grooming could result in the project backlog having obsolete, non-estimated, and poorly defined user stories.	continues to grow. Currently, there are approximately 429	A comprehensive, up-to-date backlog is a primary tenet of agile software development. If a backlog is carrying work items that may not ever be completed for any reason, they should be removed from the backlog to ensure its viability.	IVV recommends that CAMHD and DDD groom the backlog to bring it as current and accurate as possible. This should include deprecating items no longer needed, and fully defining those items that are not yet fully defined, readying them for configuration or developer resources. To the extent feasible, BHA should involve RSM SMEs in this process, if only for the interim to get "caught up" on grooming efforts. (Closed)  VV recommends that the project consider utilizing an age-based methodology for the deprecation of 'older' user stories in the backlog that may no longer be applicable or needed by the Product Owners and developing a process for periodic cleansing of the backlog using the same methodology. (Closed)	06/30/2020 - IV&V has observed for another month that the project continues to groom the backlog. As a result, we are closing this finding. 05/31/2020 - The project team has determined the backlog grooming effort has caught up, as details for release 3.9 are completed and 3.10 is near completion. IV&V will keep this finding open for an additional month to validate that the backlog continues to be groomed as new stories and defects are identified. Efforts to keep the backlog groomed should take place each month so that release planning efforts are not delayed.  04/30/2020 - The project reported that 97% of the original backlog has been estimated at this time. That said, CAMHD has determined that there are several older, and possibly no longer necessary user stories in the backlog that are candidates for deletion. IV&V will keep this finding open and will re-assess it for impact during the month of May.	Project Management	Risk	Low	Closed	The project has demonstrate d they are consistently grooming the backlog.	D Macdonald

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8.000	1/31/2020	The BHA Technical Team bandwidth	The BHA Technical Team	The BHA Technical Team leads the	The Project should investigate		Sprint Planning	Issue	High	Open		D Macdonald
		may not be sufficient to meet the	plays a role that is critical	efforts of all technical DOH staff on	mechanisms of increasing the	candidates for the open ITS4 position and is						
		needs of the project, which could compromise project productivity.	to project success. Currently, the	the project. As such, the Team's	bandwidth of the BHA Technical Team, either by adding resources through new	currently interviewing the most qualified candidates. A candidate selection is						
		Compromise project productivity.	responsibilities	scarce. If the Team's expected	hires, or vendor contracts.	anticipated in October. BHA has not						
			associated with the BHA	· ·	The Project should assess, where	received approval to post its second (lower						
			Technical Team have	project could experience	possible, if there are responsibilities of	level) technical position. RSM has provided						
			expanded beyond their	bottlenecks. Optimization of the	the BHA Technical Team that can be	ongoing Calculator 3.0 knowledge transfer						
			collective available	BHA Technical Team's time is to the		sessions to BHA staff during the month of						
			bandwidth. IV&V notes	benefit of the project and plays a	The Project should evaluate where	September. IV&V will continue to monitor						
			that BHA began		process inefficiencies can be addressed	this high priority issue until resolved.						
			addressing this		M	08/31/2021 - BHA made progress during						
			bandwidth issue, which	the Phase 3 definition of done.	BHA Technical Team's availability.	August towards resolving its technical						
			includes increased	line i nase s'acimilion di acine.	The Project should consider the	bandwidth issues. CAMHD obtained all						
			collaboration with key		1	needed approvals and has posted an						
			RSM resources, and are		team to triage/address production	experienced technical position (ITS4) to add						
			working to potentially		defects in a timely manner, without	to the team. There is also an expectation						
			change the structure of		disrupting new development work.	that a second mid-level technical position						
			the Technical Team.		The Project should consider	will also be made available for posting in						
					procurement of an online training	early September.						
					toolset to support OCM and technical	While there is a planned reduction of RSM						
					efforts to offset the need for in-person	resources through the end of the year, BHA						
					training - COMPLETED.	and the Project needs experienced custom						
					BHA needs, and should pursue,	code developers to support the Calculator						
					additional Knowledge Transfer sessions	3.0, Portal, and any other custom code.						
					on the updated Calculator 3.0 solution.	IV&V will continue to monitor this high						
						priority finding.						
						priority infams.						
9.000	1/31/2020	The lack of a Product Roadmap that	BHA does not have a	A Roadmap is a tool that guides an	IV&V understands that the Project is in	02/29/2020 - In February, the project	Project	Concern	N/A	Closed	Product	V Ramesh
9.000	1/31/2020	The lack of a Product Roadmap that provides direction on the top product		A Roadmap is a tool that guides an agile project on what	IV&V understands that the Project is in the process of creating a Short Term;	, , ,	Project Management	Concern	N/A		Product 'Roadmap	V Ramesh
9.000	1/31/2020	· ·		agile project on what	1	02/29/2020 - In February, the project	1 1	Concern	N/A		<b>I</b>	V Ramesh
9.000	1/31/2020	provides direction on the top product	single, definitive Product	agile project on what	the process of creating a Short Term; Mid Term, and Long Term Roadmap.	02/29/2020 - In February, the project further defined the Phase 3 Product	1 1	Concern	N/A		Roadmap	V Ramesh
9.000	1/31/2020	provides direction on the top product features to be delivered in the near	single, definitive Product Roadmap for Phase 3 that	agile project on what functionalities/features are targeted	the process of creating a Short Term; Mid Term, and Long Term Roadmap.	02/29/2020 - In February, the project further defined the Phase 3 Product Roadmap and aligned it with the Phase 3	1 1	Concern	N/A		Roadmap aligned with	V Ramesh
9.000	1/31/2020	provides direction on the top product features to be delivered in the near term (next 3 months), midterm, and	single, definitive Product Roadmap for Phase 3 that addresses the	agile project on what functionalities/features are targeted to be built and released and when	the process of creating a Short Term; Mid Term, and Long Term Roadmap. IV&V recommends the Project complete	02/29/2020 - In February, the project further defined the Phase 3 Product Roadmap and aligned it with the Phase 3 Definition of Done. IV&V recommends the	1 1	Concern	N/A		Roadmap aligned with Definition of	V Ramesh
9.000	1/31/2020	provides direction on the top product features to be delivered in the near term (next 3 months), midterm, and long term could have an adverse	single, definitive Product Roadmap for Phase 3 that addresses the functionalities, features,	agile project on what functionalities/features are targeted to be built and released and when users can have access to these	the process of creating a Short Term; Mid Term, and Long Term Roadmap. IV&V recommends the Project complete this by the end of February 2020 to	02/29/2020 - In February, the project further defined the Phase 3 Product Roadmap and aligned it with the Phase 3 Definition of Done. IV&V recommends the project continually review and update both	1 1	Concern	N/A		Roadmap aligned with Definition of	V Ramesh
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10.000	3/31/2020	The COVID-19 pandemic and the	On 3/23/2020, the	DOH stakeholder participation in	- IV&V recommends BHA to ramp up	04/30/2021 - The Project continues to	Project	Risk	Low		The Project	D Macdonald
		related "stay at home" order could	Governor issued a "stay	key activities could be significantly	efforts to setup, train, and assist	maintain its ability to operate with staff	Management				continues to	
		hinder project activities and	at home, work from	hindered, not only by required	stakeholders on remote work devices	working remotely, effectively overcoming					maintain its	
		negatively impact the project	home order" that has	remote work by DOH and SI staff,	and tools and make every effort to help	the "stay at home, work from home order"					ability to	
		schedule and budget.	reduced state	but also by the flood of activities	them to become highly functional with	that reduced BHA's ability to be fully					operate with staff working	
			departments ability to be	that could occur as the department	remote access technology (e.g. MS	functional in the office. The potential DDD					۰	
			fully functional as the	could become overwhelmed	Teams/Skype) - Completed	and CAMHD budget challenges reported in					remotely,	
			large majority of state	processing and providing services	- IV&V recommends the project and	March were also overcome during April, providing fiscal relief to BHA. As such, IV&V					effectively	
			workers will be required to work from	due to the resulting economic	DOH create a detailed, documented risk						overcoming	
			home/remotely at least	impacts to citizens. Some stakeholders may be unable (due to	mitigation strategy and plan that is	is closing this finding.  03/31/2021 - The Project continued to					the "stay at home, work	
			until the end of April and	stricter shutdown policies) or	address the current state of the COVID-	maintain its ability to operate with staff					from home	
			some offices may be	' '	19 threat and related impacts over the	working remotely, while COVID-related					order" that	
			completely shut down	during this chaotic time. Planned SI	•	responsibilities continue to grow for					reduced	
			until that time as well.	on-site visits will also likely be	- IV&V recommends updates to the	CAMHD Leadership. The Governor					BHA's ability	
			Unclear if the order will	changed to remote which could	OCM Plan to include any new activities	announced that potential furloughs and/or					to be fully	
			extend beyond that date.	reduce the effectiveness of their	or updates to planned activities to aid	layoffs of State workers will no longer be					functional in	
			2 22,2112 1121 date.	project activities. Going forward	the organization through this COVID-19	necessary based on the signing of the					the office.	
				most if not all project activities will	situation in the short and long term -	American Rescue Plan. IV&V has reduced					The potential	
				more than likely be conducted	Open	the priority of this finding from Medium to					DDD and	
				remotely until this crisis passes.		Low and will continue to monitor moving					CAMHD	
						forward.				l l	budget	
						02/28/2021 - As reported in January, there					challenges	
						were no substantive changes observed for					reported in	
						this finding in February. The Project					March were	
						continued to maintain its ability to operate					also	
						with staff working remotely. IV&V					overcome	
11.000	- / /							-				
111.000	5/31/2020	The lack of design reviews for	There were a couple	If all requirements within a	IV&V recommends (and DOH has	07/31/2020 - The Project continues to to		Concern		Closed	This process	
11.000	5/31/2020	The lack of design reviews for complex user stories has resulted in	There were a couple incidents during May	·	IV&V recommends (and DOH has commenced) conducting technical	07/31/2020 - The Project continues to to spend additional time on the designs of		Concern		I I	This process change to	
11.000	5/31/2020	_	1	functional design are not met, users	The state of the s	-		Concern				
11.000	5/31/2020	complex user stories has resulted in	incidents during May where the code promoted to production did not	functional design are not met, users could experience the inability to complete required processes,	commenced) conducting technical	spend additional time on the designs of		Concern		:	change to spend extra time on the	
11.000	5/31/2020	complex user stories has resulted in the promotion of incomplete	incidents during May where the code promoted	functional design are not met, users could experience the inability to	commenced) conducting technical design reviews for complex user stories	spend additional time on the designs of complex user stories during June to ensure		Concern		:	change to spend extra	
11.000	5/31/2020	complex user stories has resulted in the promotion of incomplete	incidents during May where the code promoted to production did not	functional design are not met, users could experience the inability to complete required processes,	commenced) conducting technical design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the design are met.	spend additional time on the designs of complex user stories during June to ensure requirements and user story components		Concern		1	change to spend extra time on the design of complex user	
11.000	5/31/2020	complex user stories has resulted in the promotion of incomplete	incidents during May where the code promoted to production did not fully meet all requirements of associated user stories for	functional design are not met, users could experience the inability to complete required processes, resulting in incomplete data collection and potential issues in	commenced) conducting technical design reviews for complex user stories prior to development to ensure designs are complete and all requirements associated with the design are met. IV&V observed this activity has been	spend additional time on the designs of complex user stories during June to ensure requirements and user story components were fully captured in design sessions. This process change has proven successful, and as such, IV&V recommends closing this		Concern		:	change to spend extra time on the design of complex user stories to	
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12.000	7/31/2020	DDD Project resource shortages may	The user adoption and	The significance and impact of OCM	IV&V recommends that BHA does as	03/31/2021 - The DDD staff who've been	Project	Risk	Low	Closed	The DDD	D Macdonald
12.000	773172020	have a continued negative effect on	training efforts are	can never be understated. It is	much as possible within its sphere of	part of the review process are pleased with	Management	INISK	1000	Ciosca	staff who've	Dividedonald
		user adoption, training, and overall		clearly a best practice that best that	influence to increase user adoption and	the quality of the videos produced within					been part of	
		OCM activities.		all staff utilize the solution in the	training. This includes procurement of	the toolset and have determined that the					the review	
			has stated that its users	same manner. Variations in how	the online training toolsets to offset the	toolset is a very helpful training tool for					process are	
				the system is utilized by its users is	need for in-person training, and adding	DDD staff and providers. As such, IV&V is					pleased with	
			be utilizing the system to	likely to cause variations in data	staff as needed to support OCM and	closing this finding.					the quality of	
			its fullest extent in terms	collection and analytical efforts	technical efforts.	02/28/2021 - Training videos using the new					the videos	
			of system workflow,	using the data collected.	IV&V recommends DOH perform a	toolset were nearing completion by the end					produced	
			provide their insights and		detailed investigation of the specific	of February. DOH is currently reviewing the					within the	
			input, follow up, etc. To		variations as to how the system is	drafts of the second set of videos and work					toolset, and	
			assist in OCM activities,		currently being used by the user	is progressing well. IV&V will continue to					have	
			DDD has defined the need		community. Consequently, users would	monitor this finding until DDD has had					determined	
			for an interactive training		be provided with constructive feedback	sufficient time to determine the overall					that the	
			tool to support Inspire.		on how the system should be utilized	quality of the training work products and					toolset is a	
					where gaps exist. This will likely lead to	whether the new toolset is addressing user					very helpful	
					additional refresher training to close	adoption and staffing shortages for these					training tool	
					identified system knowledge gaps.	task efforts.					for DDD staff	
						01/31/2021 - Training design activities					and	
						using the interactive training toolset					providers.	
						commenced in January and has attained						
						good progress. The use of this tool is						
						expected to provide some bandwidth relief						
						for DDD staff members responsible for						
						onboarding new staff members and providers, and to provide refresher training						
						to existing staff members. IV&V will						
13 000	8/31/2020	PII/PHI data in non-production	IV&V has been made	Failure to secure PII/PHI data leaves	IV&V recommends if production data is	<u> </u>	Project	Issue	Medium	Onen		D Macdonald
13.000	8/31/2020	PII/PHI data in non-production	IV&V has been made	Failure to secure PII/PHI data leaves	IV&V recommends if production data is	09/30/2021 - There was no substantive	Project Management	Issue	Medium	Open		D Macdonald
13.000	8/31/2020	PII/PHI data in non-production environments	aware that PII/PHI data	the organization open to highly	necessary in any non-production	09/30/2021 - There was no substantive change to this finding in September. This	Project Management	Issue	Medium	Open	I	D Macdonald
13.000	8/31/2020		aware that PII/PHI data currently exist in a non-	the organization open to highly targeted social engineering attacks,	necessary in any non-production environment that DOH establishes a	09/30/2021 - There was no substantive change to this finding in September. This effort remains on hold until additional staff	1 '	Issue	Medium	Open		D Macdonald
13.000	8/31/2020		aware that PII/PHI data	the organization open to highly	necessary in any non-production	09/30/2021 - There was no substantive change to this finding in September. This	1 '	Issue	Medium	Open		D Macdonald
13.000	8/31/2020		aware that PII/PHI data currently exist in a non- production environment	the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of	necessary in any non-production environment that DOH establishes a plan for effectively managing the	09/30/2021 - There was no substantive change to this finding in September. This effort remains on hold until additional staff are available to support. IV&V will continue	1 '	Issue	Medium	Open		D Macdonald
13.000	8/31/2020		aware that PII/PHI data currently exist in a non- production environment to meet project needs.	the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of	necessary in any non-production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including	09/30/2021 - There was no substantive change to this finding in September. This effort remains on hold until additional staff are available to support. IV&V will continue to monitor this medium priority security	1 '	Issue	Medium	Open		D Macdonald
13.000	8/31/2020		aware that PII/PHI data currently exist in a non- production environment to meet project needs. Generally this is not a	the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of	necessary in any non-production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data.  IV&V recommends that DOH mitigates	09/30/2021 - There was no substantive change to this finding in September. This effort remains on hold until additional staff are available to support. IV&V will continue to monitor this medium priority security finding.	1 '	Issue	Medium	Open		D Macdonald
13.000	8/31/2020		aware that PII/PHI data currently exist in a non- production environment to meet project needs. Generally this is not a good security practice as	the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of	necessary in any non-production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data.  IV&V recommends that DOH mitigates	09/30/2021 - There was no substantive change to this finding in September. This effort remains on hold until additional staff are available to support. IV&V will continue to monitor this medium priority security finding. 08/31/2021 - Due to resource constraints,	1 '	Issue	Medium	Open		D Macdonald
13.000	8/31/2020		aware that PII/PHI data currently exist in a non- production environment to meet project needs. Generally this is not a good security practice as the presence of PII/PHI	the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of	necessary in any non-production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data.  IV&V recommends that DOH mitigates this finding by removing and/or masking	09/30/2021 - There was no substantive change to this finding in September. This effort remains on hold until additional staff are available to support. IV&V will continue to monitor this medium priority security finding. 08/31/2021 - Due to resource constraints, this effort has been put on hold until	1 '	Issue	Medium	Open		D Macdonald
13.000	8/31/2020		aware that PII/PHI data currently exist in a non- production environment to meet project needs. Generally this is not a good security practice as the presence of PII/PHI data in non-production	the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of	necessary in any non-production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data. IV&V recommends that DOH mitigates this finding by removing and/or masking any PHI/PII data in its non-production environments.  NEW - IV&V recommends DOH consider	09/30/2021 - There was no substantive change to this finding in September. This effort remains on hold until additional staff are available to support. IV&V will continue to monitor this medium priority security finding. 08/31/2021 - Due to resource constraints, this effort has been put on hold until additional staff are made available to support. IV&V will continue to monitor this medium priority security finding.	1 '	Issue	Medium	Open		D Macdonald
13.000	8/31/2020		aware that PII/PHI data currently exist in a non-production environment to meet project needs. Generally this is not a good security practice as the presence of PII/PHI data in non-production environments increases the potential for theft, loss or exposure thus	the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of	necessary in any non-production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data. IV&V recommends that DOH mitigates this finding by removing and/or masking any PHI/PII data in its non-production environments.  NEW - IV&V recommends DOH consider limiting the volume of environments	09/30/2021 - There was no substantive change to this finding in September. This effort remains on hold until additional staff are available to support. IV&V will continue to monitor this medium priority security finding. 08/31/2021 - Due to resource constraints, this effort has been put on hold until additional staff are made available to support. IV&V will continue to monitor this medium priority security finding. 07/31/2021 - BHA met with the	1 '	Issue	Medium	Open		D Macdonald
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13.000	8/31/2020		aware that PII/PHI data currently exist in a non-production environment to meet project needs. Generally this is not a good security practice as the presence of PII/PHI data in non-production environments increases the potential for theft, loss or exposure thus increasing the organization's risk. Failure to secure PII/PHI data leaves the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of client	the organization open to highly targeted social engineering attacks, heavy regulatory fines, and loss of client trust and loyalty.	necessary in any non-production environment that DOH establishes a plan for effectively managing the security of the PII/PHI data, including the potential masking of data. IV&V recommends that DOH mitigates this finding by removing and/or masking any PHI/PII data in its non-production environments.  NEW - IV&V recommends DOH consider limiting the volume of environments and access necessary to support development work, which should help	09/30/2021 - There was no substantive change to this finding in September. This effort remains on hold until additional staff are available to support. IV&V will continue to monitor this medium priority security finding.  08/31/2021 - Due to resource constraints, this effort has been put on hold until additional staff are made available to support. IV&V will continue to monitor this medium priority security finding.  07/31/2021 - BHA met with the Department of Human Services (DHS) to discuss the use of the Delphix tool which they currently use for masking PII/PHI data in non-production environments. An initial assessment of this tool would require downloads from D365, masking of data, and subsequent uploads in a sequential manner. This may not be the best approach for masking data. Consequently, BHA has collaborated with Microsoft to investigate using out of the box functions in coordination with flow jobs, however this	1 '	Issue	Medium	Open		D Macdonald

14.000	8/31/2020	Project not able to access Activity	The Project recently	The unavailability of activity logs	IV&V recommends that DHS continues	03/31/2021 - Per BHA, this finding is no	Release/Deployme	Risk	Low	Closed	Finding has	D Macdonald
	' '	Logs		may hamper the investigation of	to collaborate with Microsoft until the	longer an issue and recommends closure.	nt Planning				been	
			functionality into	future security breaches.	activity logging feature is available in all	IV&V is closing this finding.					resolved.	
			production whereby	·	BHA non-production environments.	02/28/2021 - BHA continued this effort in						
			these logs can be		·	February despite a workaround being						
			accessed and exported as			necessary from Microsoft due to a layering						
			needed. However, IV&V			issue. Based on continued delays, it is						
			was made aware access			unclear when this important security						
			to activity logging for			activity will be completed. IV&V will						
			users with just view			continue to monitor this finding. (Per Kamu,						
			permissions will not be			this status information did not correctly						
			available from Microsoft			reflect the issue as the layering issue has no						
			in the public sector			relation to the activity logs.)						
			environment until the			01/31/2021 - The implementation effort for						
			end of September 2020.			this activity moved forward in January.						
			The unavailability of			Some of the entities will have activity						
			these specific activity logs			logging completed in the planned early						
			could potentially hamper			February Release 3.12, while others will be						
			the investigation of future			delayed until Release 3.13. IVV will						
			security events until			continue to monitor.						
			implemented.			12/31/2020 - The planning effort for						
						identifying the entities that will require						
						activation of the new activity logs was						
						completed during December. The						
						implementation effort has been prioritized						
						for inclusion in Release 3.12. IV&V will						
						continue to monitor this finding until				_		
15.000	9/30/2020	Due to multiple quality concerns, the	1 '	The identified quality issues have	To address quality issues, the Project	09/30/2021 - The Project's focus on quality	Project	Issue	Medium	Open		D Macdonald
		project may continue to face impactful system defects.	in August that affected claims were due to multi-	negatively affected DOH billing processes and DOH has stated these	should continue to pursue and/or consider:	again resulted in positive progress in	Management					
		impactiui system derects.	faceted quality issues	are the most impactful defects		September. R3.18 was promoted to production on 9/26/2021 with a few post-						
				discovered to date.	1) Perform revenue neutrality fiscal balance testing on a quarterly basis to	production on 9/26/2021 with a rew post-						
			addressed during this	discovered to date.		currently under review. IV&V will continue						
			reporting period. IV&V		ensure revenues are as expected.  2) Performing typical project testing	to monitor this medium priority finding.						
			notes that there is one		including System Integration, User	08/31/2021 - The Project's focus on quality						
			remaining defect still		Acceptance, Performance, and	resulted in good progress in August.						
			being evaluated that		Regression Testing. Completed	Release 3.17 was promoted to production						
			affects a limited number		Assigning a dedicated resource to	on 8/15/2021 without any major defects or						
			of claims. Overall, the		provide oversight of CAMHD Fiscal	deployment issues. The recent RCA efforts						
			Project Team has		Processes.	focused on design error mitigation and						
			responded with a		4) BHA and RSM to collaborate on the	regression testing for high-risk areas. The						
			commitment to increase		necessary revisions to the submitted	Project has also pursued the ongoing						
			project quality and is in		design deliverables to increase level of	operational monitoring of failed D365						
			the process of identifying		detail and quality - Completed	processes as a means of detecting issues						
			improvements to		1	sooner than later. Overall, the quality						
			associated testing		for effectiveness In Progress	improvement measures and efforts						
			processes. These		6) Evaluate existing project staff skills	performed by the project have been						
			currently include:		and experience level to ensure they	positive, and as result, IV&V is lowering the						
			Performing Revenue		meet BHA support requirements - Open	priority of this finding to Medium. IV&V						
			Neutrality Testing to		7) IV&V recommends performing an	will continue to monitor this finding.						
	1		ensure expected revenue		RCA in collaboration with RSM after all	07/31/2021 - Release 3.16 was deployed to				1		
1			and any action to the same									
			streams are largely		future release deployments for	production on 7/2/2021 with just 3 new						
			· ·		future release deployments for continual quality improvement. Completed	production on 7/2/2021 with just 3 new medium priority production defects recorded as being attributable to the						

	10/5/2020	Hears of Computies and IDA4 for	The president state of the			01/21/2021 The musication of the control of the con	Tayantad VT	Camanan		Classel	The market	D Mandanali
16.000	10/5/2020	Usage of Semantics and IDM for	The project noted its			01/31/2021 - The project has made great	Targeted KT	Concern		Closed		D Macdonald
		development and ongoing	intent to obtain more targeted knowledge			strides addressing this concern. A					has made	
		maintenance of the system requires				Semantics Layer KT session was conducted					good	
		BHA to take a proactive approach to	transfer of both the			on 1/29/21 and multiple IDM and Semantic					progress establishing	
		support of these tools.	Semantics Reporting and IDM tools. IV&V will			Layer sessions has been scheduled in					and initial	
						February. IV&V is closing this finding as we					execution of	
			continue to monitor this			no longer view this item as a concern.					the IDM and	
			concern.			12/31/2020 - IV&V is aware that an						
						overview of the Semantics Layer KT session					Semantics	
						was held on 12/16/20. The planning effort					Layer KT plan.	
						will result in additional Semantic Layer and					pian.	
						IDM KT sessions in the coming months.						
						IV&V will continue to monitor this finding.						
						11/30/2020 - The project conducted two						
						high-level overview sessions of the						
						Semantic Layer Reporting tools during						
						November. One session was focused on the						
						overall Semantic Layer, and the second						
						session was focused on Semantic Layer						
						Security. Additional targeted Knowledge						
						Transfer sessions on the Semantic Layer						
						tools will need to be provided by RSM;						
						however, these have not been scheduled.						
						IV&V will continue to monitor this finding.						
						10/31/2020 - The project intends to obtain						
						more targeted knowledge transfer for both						
						the Semantics Reporting and IDM tools and					-	
17.000	10/27/2020	The bandwidth of CAMHD Leadership									CAMHD	
	10,2,,2020	1		CAMDH Leadership participation in	IV&V recommends CAMHD look for	06/30/2021 - As anticipated, the CAMHD	Project	Risk	Low	Closed		D Macdonald
	10,27,2020	is being hampered by planning tasks	provided with an	key activities could be significantly	opportunities to augment the	Leadership time dedicated to the Project	Management	NISK	LOW	Ciosed	Leadership	Diviacuonalu
	10,2,,2020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence	key activities could be significantly hindered by the flood of activities	opportunities to augment the management staffing for planning Phase	Leadership time dedicated to the Project has returned to normal and expected levels.	1 1	NISK	LOW	Closed	Leadership time	Diviacuonalu
	10,27,2020	is being hampered by planning tasks	provided with an approval to commence planning efforts for	key activities could be significantly hindered by the flood of activities that could occur as the department	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding.	1 1	Nisk	LOW	Closed	Leadership time dedicated to	Diviacuonalu
	20,27,2020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD	1 1	NISK	Low	Cioseu	Leadership time dedicated to the project	D Macuonalu
	20,27,2020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD &	key activities could be significantly hindered by the flood of activities that could occur as the department	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of	1 1	NISK	Low	Cioseu	Leadership time dedicated to the project has returned	D Macuonald
	20,21,2020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May.	1 1	NISK	Low	Closed	Leadership time dedicated to the project	D Macuonald
	20,21,2020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	D Maccollato
	20,21,2020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in	1 1	NISK	Low	Closed	Leadership time dedicated to the project has returned	<i>b</i> Macdonald
	20,21,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	<i>b</i> Macdonald
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuolialu
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuolialu
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuolialu
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor.	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuolialu
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuolialu
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuolialu
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuolialu
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuolialu
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuoliau
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuolialu
	20,2,72020	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuoliau
	20,2,0	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts.	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuolialu
	2017	is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuoliau
		is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuoliau
		is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as DOH has hired a Project Manager in April	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	Dividuoliau
		is being hampered by planning tasks and activities for assessing project	provided with an approval to commence planning efforts for expansion of the project for ADAD and AMHD & HSH. CAMHD Leadership currently spends 25% of their available time dedicated to this planning	key activities could be significantly hindered by the flood of activities that could occur as the department assesses expansion of this project to the balance of divisions.	opportunities to augment the management staffing for planning Phase 4 and M&O work.	Leadership time dedicated to the Project has returned to normal and expected levels. As such, IV&V is closing this finding. 05/31/2021 - As anticipated, CAMHD Leadership time spent on efforts outside of the Inspire Project reduced during May. This level of effort decreased to approximately 10% of available time in May, largely for the planning of the Max/Inspire divisional expansion effort. As such, IV&V is reducing the priority of this finding from Medium to Low and will continue to monitor. 04/30/2021 - CAMHD Leadership time spent on efforts outside of the INSPIRE Project continued to increase during early April but has decreased at the end of the month. Approximately 60-70% of Leadership time was spent on Phase 4 Planning, COVID Remediation, and the new Vaccine Registration application efforts. The CAMHD level of effort is anticipated to decrease to approximately 20% in May as	1 1	RISK	Low	Closed	Leadership time dedicated to the project has returned	D Maccoonard

18.000	11/30/2020	Due to consistent technical issues	The IDM and Semantic		IV&V recommends the project to	08/31/2021 -The number of issues	Release/Deployme	Issue	Low	Closed	The volume	D Macdonald
10.000	11/30/2020	requiring escalation to Microsoft,	layer efforts have		continue to monitor the status of	requiring assistance from Microsoft	nt Planning	13300	LOW	Closed	of	Diviacuonalu
		some project efforts are being	experienced several		outstanding Microsoft tickets and to	continues to remain limited, and as such,					interactions	
		delayed.	delays attributable to		escalate the priority of these tickets as	IV&V is closing this finding.					needed with	
		delayea.	issues escalated to		deemed necessary.	07/31/2021 - While the number of issues					Microsoft	
			Microsoft. The issues		,	requiring assistance from Microsoft					remains low	
			have ranged from			remains limited, interactions with Microsoft					and	
			administrative /			are increasing again due to the interface					manageable.	
			communication (entering			functionality planned for implementation in					This	
			issues into the			the current and remaining DD&I releases.					condition is	
			Commercial support			The FHIR API interface has required					no longer	
			instance vs the			multiple interactions with Microsoft that					impeding	
			Government Cloud			have resulted in unplanned schedule					project	
			support instance), to			slippages for the FHIR API implementation.					progress.	
			several key technical			IV&V will continue to monitor this finding.						
			issues requiring			06/30/2021 - The number of issues						
			assistance to resolve. To			requiring assistance from Microsoft						
			date, these support needs			continues to be low with only two known						
			have added over a month			items open. As such, IV&V is reducing the						
			to the IDM and Semantic			priority of this finding to low and will						
			Layer project schedules.			continue to monitor.						
						05/31/2021 - There is only one open						
						Microsoft ticket affecting the attachment of						
						Claims to the Batch. As such, IV&V is						
						reducing the criticality of this finding from						
						High to Medium and will continue to						
						monitor.						
19.000	12/31/2020	Due to on-going deployment	There have been several	Repeatable documented release	Develop a plan to institutionalize the	09/30/2021 - R3.18 was promoted to	Release/Deployme	Issue	Medium	Open		D Macdonald
		processes and technical execution	defects pushed to	and deployment will help ensure	execution of "Smoke Testing" for	production on 9/26/2021 with a few post-	nt Planning					
		issues, the project may continue to	production with Phase 3	that mistakes are minimized, and	promotions to non-production and	production issues that are currently being						
		encounter defects and challenges in	releases. Some of the	that functionality is not mistakenly	production environments. This will help	reviewed. The Project Team is including						
		meeting projected timelines for		deprecated when deployments take	to ensure that all components needed	additional detail in the deployment scripts						
		production and non-production	production have been narrowed down to	place.	to test have been properly deployed prior to the actual execution of test	to ensure all requirements of the						
		deployments.	environmental		activities. Completed	deployment effort are identified and addressed. Based on the recent deployment						
			promotional activities. In		· ·	successes in releases R3.16 through R3.18,						
			these instances, the DEV		resources to support the current	IV&V is reducing the criticality of this						
			and TEST environments		1	finding to medium. IV&V notes that the						
			were not in sync with the		the support from RSM resources to	next release (R3.19) will be deployed as a						
			Were not in syne with the		the support from Noivi resources to	mext release (ns.15) will be deployed as a						
			production environment		provide assistance and knowledge	full solution upgrade, which includes a					1	
			production environment (missing business rules.		provide assistance and knowledge transfer for some of the more complex	full solution upgrade, which includes a compilation of all patch upgrades from						
			(missing business rules,		transfer for some of the more complex	compilation of all patch upgrades from						
1			(missing business rules, missing components,		transfer for some of the more complex deployment components. New	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to						
			(missing business rules, missing components, missing dependencies,		transfer for some of the more complex deployment components. New Work in collaboration with RSM to	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding.						
			(missing business rules, missing components,		transfer for some of the more complex deployment components. New	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to						
			(missing business rules, missing components, missing dependencies, etc.). IVV is aware that		transfer for some of the more complex deployment components. New Work in collaboration with RSM to establish a plan for DOH to assume all	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 08/31/2021 - Release 3.17 was promoted to						
			(missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM		transfer for some of the more complex deployment components. New Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 08/31/2021 - Release 3.17 was promoted to production on 8/15/2021 without any						
			(missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM staff for all deployment		transfer for some of the more complex deployment components. New Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure complete ownership of these processes.	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 08/31/2021 - Release 3.17 was promoted to production on 8/15/2021 without any major defects or deployment issues.						
			(missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2		transfer for some of the more complex deployment components. New Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure complete ownership of these processes. This should assist with consistency in	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 08/31/2021 - Release 3.17 was promoted to production on 8/15/2021 without any major defects or deployment issues. Additional detail was included in the						
			(missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2 with RSM providing		transfer for some of the more complex deployment components. New Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure complete ownership of these processes. This should assist with consistency in approach and execution going forward. As appropriate, consult with RSM on	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 08/31/2021 - Release 3.17 was promoted to production on 8/15/2021 without any major defects or deployment issues. Additional detail was included in the deployment scripts to help ensure a team-						
			(missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2 with RSM providing instruction and DOH staff		transfer for some of the more complex deployment components. New Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure complete ownership of these processes. This should assist with consistency in approach and execution going forward. As appropriate, consult with RSM on	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 08/31/2021 - Release 3.17 was promoted to production on 8/15/2021 without any major defects or deployment issues. Additional detail was included in the deployment scripts to help ensure a teamwide understanding of the deployment						
			(missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2 with RSM providing instruction and DOH staff physically executing the		transfer for some of the more complex deployment components. New Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure complete ownership of these processes. This should assist with consistency in approach and execution going forward. As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 08/31/2021 - Release 3.17 was promoted to production on 8/15/2021 without any major defects or deployment issues. Additional detail was included in the deployment scripts to help ensure a teamwide understanding of the deployment requirements for differing components.						
			(missing business rules, missing components, missing dependencies, etc.). IVV is aware that DOH staff shadowed RSM staff for all deployment releases during Phase 2 with RSM providing instruction and DOH staff physically executing the tasks and activities via		transfer for some of the more complex deployment components. New Work in collaboration with RSM to establish a plan for DOH to assume all deployment activities to ensure complete ownership of these processes. This should assist with consistency in approach and execution going forward. As appropriate, consult with RSM on best practices that BHA could employ to support deployment.	compilation of all patch upgrades from R3.15 through R3.19. IV&V will continue to monitor this finding. 08/31/2021 - Release 3.17 was promoted to production on 8/15/2021 without any major defects or deployment issues. Additional detail was included in the deployment scripts to help ensure a teamwide understanding of the deployment requirements for differing components. This is an evolving process that is showing						

20.000	3/28/2021	The pending RSM contract expiration	The RSM contract for	DOH needs to be in a position to	Work hand in hand with RSM to ensure	05/31/2021 - Per CAMHD, the RSM contract	Project	Concern		Closed	The RSM	Vic Dudoit
	, = 0, = 0 = =	will require BHA to perform	Phase 3 is currently	completely stand on its own	that DOH has the knowledge, skills, and	amendments to extend the DD&I effort	Management				amendments	
		transition of the D365 solution to the	planned to complete in	without the assistance of vendor	capabilities to perform all aspects of the	(Mod 5) to the end of December 2021 and					were fully	
		State prior to contract end.	September 2021. BHA wil	support by fall of 2021. If DOH is	project prior to September 2021. If the	also provide M&O services (Mod 6) through					executed in	
			need a transition plan to	not in a position to solely take on	knowledge transfer takes more time	May 2022 were fully executed in May.					May 2021.	
			ensure that it has all	the development of user stories,	than planned, consider developing,	IV&V is closing this preliminary concern.						
			-	testing, regression testing,	testing, and promoting less releases in	04/30/2021 - The RSM contract						
			fully capable of managing			amendment is still pending approval. This						
			all aspects of supporting	maintenance of the entire system,	of vendor support approaches.	amendment will extend the DD&I effort						
			and maintaining the D365			(Mod 5) to the end of December 2021 and						
			solution without vendor	stability may be challenged.		will also provide M&O services (Mod 6)						
			support until at least the			through May 2022. Mod 5 is expected to						
			Phase 4 expansion effort			be approved in May 2021. This will delay						
			is procured and initiated.			the near-term need for a Transition Plan						
			The Phase 4 effort is currently expected to			until first quarter 2022. IV&V will continue to monitor this finding.						
			commence late in the 4th			to monitor this infame.						
			quarter of 2021, or early									
			in the first quarter of									
			2022. The Phase 4									
			procurement scope is									
			planned to include									
			additional DD&I activities									
			as well as M&O support									
			activities.									
21.000												
21.000	4/30/2021	The DDD Project Manager will be on	The DDD Project Manager	1	1) IV&V recommends DDD to continue	08/31/2021 - The DDD Project Manager	Project	Issue	Medium	Closed	The DDD	Darren
21.000	4/30/2021	leave and unavailable to the project	performs most of the	to all daily project interactions	to look for opportunities to augment	returned from her absence, alleviating the	Project Management	Issue	Medium		Project	Darren
21.000	4/30/2021		performs most of the project duties on behalf	to all daily project interactions affecting DDD from a functional and	to look for opportunities to augment the existing technical staff in order to	returned from her absence, alleviating the DDD technical staff bandwidth/workload	'	Issue	Medium		Project Manager has	Darren
21.000	4/30/2021	leave and unavailable to the project	performs most of the project duties on behalf of DDD and her absence	to all daily project interactions affecting DDD from a functional and managerial perspective. If her	to look for opportunities to augment the existing technical staff in order to fully support current DDI project work.	returned from her absence, alleviating the DDD technical staff bandwidth/workload challenges. IV&V is closing this finding.	'	Issue	Medium		Project Manager has returned	Darren
21.000	4/30/2021	leave and unavailable to the project	performs most of the project duties on behalf of DDD and her absence may cause an increased	to all daily project interactions affecting DDD from a functional and managerial perspective. If her duties are not re-assigned to	to look for opportunities to augment the existing technical staff in order to fully support current DDI project work. 2) IV&V recommends DDD to consider	returned from her absence, alleviating the DDD technical staff bandwidth/workload challenges. IV&V is closing this finding. 07/31/2021 - The DDD technical staff	'	Issue	Medium		Project Manager has returned from her	Darren
21.000	4/30/2021	leave and unavailable to the project	performs most of the project duties on behalf of DDD and her absence may cause an increased level of risk to the project	to all daily project interactions affecting DDD from a functional and managerial perspective. If her duties are not re-assigned to capable staff prior to her planned	to look for opportunities to augment the existing technical staff in order to fully support current DDI project work. 2) IV&V recommends DDD to consider augmenting their current PM/Business	returned from her absence, alleviating the DDD technical staff bandwidth/workload challenges. IV&V is closing this finding. 07/31/2021 - The DDD technical staff continued to face bandwidth/workload	'	Issue	Medium		Project Manager has returned from her leave, fully	Darren
21.000	4/30/2021	leave and unavailable to the project	performs most of the project duties on behalf of DDD and her absence may cause an increased level of risk to the project DDD has commenced	to all daily project interactions affecting DDD from a functional and managerial perspective. If her duties are not re-assigned to capable staff prior to her planned absence, DDD will be in a	to look for opportunities to augment the existing technical staff in order to fully support current DDI project work.  2) IV&V recommends DDD to consider augmenting their current PM/Business staff in order to allow their technical	returned from her absence, alleviating the DDD technical staff bandwidth/workload challenges. IV&V is closing this finding. 07/31/2021 - The DDD technical staff continued to face bandwidth/workload challenges during the month of July.	'	Issue	Medium		Project Manager has returned from her leave, fully mitigating	Darren
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21.000	4/30/2021	leave and unavailable to the project	performs most of the project duties on behalf of DDD and her absence may cause an increased level of risk to the project DDD has commenced planning efforts and has assigned staff to backfill her, although they are currently assigned to other project tasks and activities. IV&V will continue to monitor this	to all daily project interactions affecting DDD from a functional and managerial perspective. If her duties are not re-assigned to capable staff prior to her planned absence, DDD will be in a challenged position to effectively contribute to at least the next	to look for opportunities to augment the existing technical staff in order to fully support current DDI project work.  2) IV&V recommends DDD to consider augmenting their current PM/Business staff in order to allow their technical	returned from her absence, alleviating the DDD technical staff bandwidth/workload challenges. IV&V is closing this finding. 07/31/2021 - The DDD technical staff continued to face bandwidth/workload challenges during the month of July. Fortunately, the DDD Project Manager is scheduled to return to work on 8/2/2021 allowing the technical staff to return fully to their technical responsibilities. 06/30/2021 - The absence of the DDD Project Manager continues to cause bandwidth/workload challenges for DDD technical staff. Time available for typical DDD CRM assignments was limited in June due to this resource constraint. IV&V has promoted this finding from a Preliminary Concern to a Medium criticality issue and will continue to monitor. 05/31/2021 - The highest priority tasks and activities typically accomplished by the DDD Project Manager have been re-assigned to other DDD staff. IV&V notes that this	'	Issue	Medium		Project Manager has returned from her leave, fully mitigating	Darren

22.000 6/30/2021 Unplanned rework may have impact on delivering DDI Functionality by the end of the period.	unplanned rework may	09/30/2021 - Defect resolution remained at 38% of all delivered user story points during August and September. While slightly improved over previous months, the Project continues to see a higher-than-expected volume of unplanned rework due to the amount of defect fixes released to production. IV&V will continue to monitor this preliminary concern moving forward. 08/31-2021 - Unplanned rework continues. Defect remediation constituted almost 45% of all USPs delivered in June and July. August saw slight improvement in this area, as defects were reduced to 38% of the total USPs delivered.	Preliminary Concern	D MacDonald
7/30/2021 The project schedules for 'big boulder' interface functionali development are slipping.		09/30/2021 - The HHIE Single Sign On (SSO) solution was deployed to production in R3.18, however HHIE still needs to complete the configuration on their side to enable this functionality to work. Other 'big boulder' schedule slippages were observed in September, largely due to third party delays. While some preliminary components were completed and deployed to production for other 'big boulder' items in R3.18, deployment of the Clinical Review Process interface, Provider Portal, HHIE ADT/Labs interface, Provider Interface Files, and Calculator 3.0 Improvements have all been moved to R3.19. The Customer Portal Rollout is currently planned for R3.20 and the FHIR interface will be delayed until 2022 to align with updated program needs.  08/31/2021 - The schedules for the big boulder interfaces have slipped due to interactions needed with third parties. The CAFAS and Clinical Review Process (Care Teams) efforts have been moved to R3.18. The HHIE interface efforts have been moved to R3.18. The HHIE interface efforts have been moved to either R3.18 or 3.19, and the FHIR interface has been moved to R3.20. IV&V	Preliminary Concern	D MacDonald

24.000	7/31/2021	The current DDI period expires at the	The current Project		09/30/2021 - The Project continues	Preliminary		D MacDonald
		end of December 2021 which will	Staffing Model shows a		discussions for extending the DD&I effort	Concern		
		require BHA to perform transition of	planned reduction in RSM		while the previously planned slowdown of			
		the D365 solution to the State prior	resources support		DD&I work continues through the			
		to contract end.	starting in September		remainder of the 2021 calendar year. A new			
			2021 through December		IAPDU is being developed for submittal			
			2021. Prior to this		with a goal to obtain funding for technical			
			timeframe, BHA should		project resources through May 2023. IV&V			
			commence the		will continue to monitor.			
			development of a		08/31/2021 - The Project is in discussions			
			transition plan to ensure		to potentially extend the DD&I effort, while			
			the appropriate		the previously planned slowdown of efforts			
			replacement State		will continue through the balance of the			
			resources are		2021 calendar year. IV&V will continue to			
			identified/secured and		monitor.			
			the necessary knowledge					
			transfer sessions are					
			planned and executed					
			with RSM. BHA will need					
			to be sure they are ready					
			to take on the					
			development of user					
			stories, testing,					
			deployment, and the					
			support and maintenance					
			of the entire system by					
			the end of the DDI period					