JOSH GREEN, M.D. GOVERNOR





OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

P.O. BOX 119, HONOLULU, HAWAI'I 96810-0119 Ph: (808) 586-6000 | Fax: (808) 586-1922 ETS.HAWAII.GOV

September 20, 2023

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

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

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

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

Sincerely,

1.08

Douglas Murdock Chief Information Officer State of Hawai'i

Attachments (2)



# Hawaii BHA Integrated Case Management System Project – Phase 4

Final IV&V Report for the period of

July 1 – July 31, 2023

Final submitted: August 14th, 2023



**Solutions that Matter** 

## Agenda

Executive Summary IV&V Findings & Recommendations

#### Appendices

- A Rating Scales
- B Inputs
- C Project Trends





### **Executive Summary**

R4.1 deployment was completed in July. The mid-sprint deployment (MSD) Golden Record components continued to be delayed and are planned for August. R4.1 resulted in one high-priority post-production bug and the root cause analysis (RCA) for the bug due to a design error from Human Services Research Institute (HSRI) is still in progress. The Non- Disclosure Agreement (NDA)for Fast Healthcare Interoperability Resources (FHIR) was fully executed, and the team is working on obtaining the integration agreement signatures.

Мау	Jun	July	Category	IV&V Observations
G	G	×	Sprint Planning	There was a concern related to the Sprint demos/reviews not being conducted during the Sprint ceremonies, which could help clarify and validate the understanding of the design before testing. This category is in yellow (medium criticality) for the July reporting period.
G	G	G	User Story (US) Validation	There are no active findings in the User Story (US) Validation category which remains Green (low criticality) for the July reporting period. IV&V will continue to monitor the US development and validation process in upcoming reporting periods.
Y	<mark>&gt;</mark>	Y	Test Practice Validation	The automation of regression scripts for DDD was delayed due to resource bandwidth and other priorities, i.e., Golden Record (GR) testing. The Project is expected to continue the automation of regression test scripts in late August. This category remains Yellow (medium criticality) for the July reporting period.
Y	Y	Y	Release / Deployment Planning	There were no deployment-related issues for R4.1, however, the Golden Record project continues to be delayed and is a foundational element that impacts several user stories dependent on GR (141 User Story Points (USPs) out of 309 USPs moved into 4.2). IV&V will continue to monitor this category moving forward.

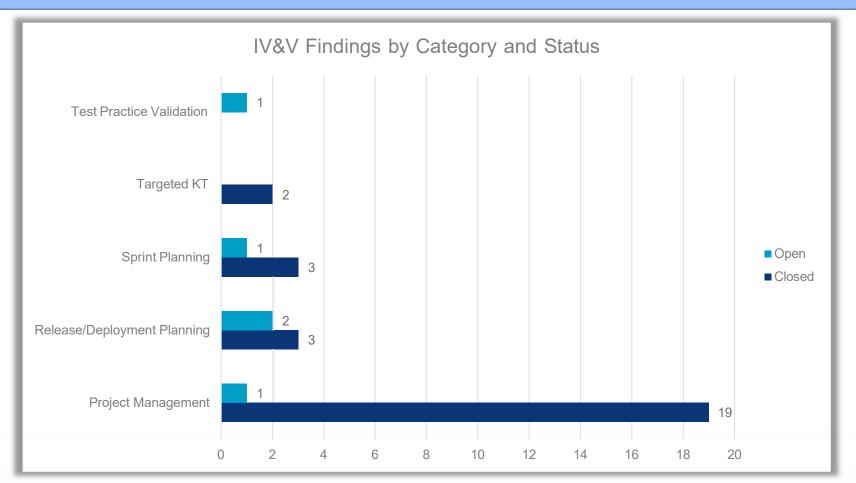
## **Executive Summary**

May	Jun	July	Category	IV&V Observations
G	G	G	OJT and KT Sessions	This category remains Green (low criticality) for the July reporting period with no active findings.
G	G	G	Targeted KT	This category remains Green (low criticality) for the July reporting period. IV&V will continue to monitor.
G	G	G	Project Performance Metrics	There are no project performance metrics to report for July. IV&V will keep the criticality rating for this category a Green (low criticality) and will continue monitoring this category.
Y	Y	Y	Organizational Maturity Assessment (OMA)	This category remains Yellow (medium criticality) for the July reporting period. IV&V will continue to monitor.
R	Y	Y	Project Management	Since the implementation of R4.1, the quality has increased significantly. Most of the issues in R4.1 have a root cause analysis (RCA) in place. IV&V closed the "Big Boulder" finding since the functionalities are now moved to Phase 4 and onwards. IV&V will continue to monitor this category, and it remains in Yellow (medium criticality) for the July reporting period.



#### **Executive Summary**

As of the July 2023 reporting period, there are a total of five (5) open findings – three Medium Issues, one medium risk, and one Preliminary Concern spread across the Release / Deployment Planning, Test Practice Validation, Sprint Planning, and Project Management assessment areas.





# **IV&V** Findings & Recommendations

### IV&V Findings & Recommendations Assessment Categories

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

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



### IV&V Findings & Recommendations Sprint Planning

#	Key Findings	Criticality Rating
32	<b>Preliminary Concern</b> – The project does not hold Sprint demos/reviews. As per Agile Best Practices, it is important to have sprint reviews/demos in order to align the team and stakeholders and to improve both software and teams. Currently, the project has joint testing involving the SI and BHA personnel. IV&V believes that having Sprint demos/reviews during a sprint can help to clarify and validate the design before testing, steer the team in the right direction, and avoid issues. This would also allow the testing team to focus solely on testing, which can improve the overall efficiency of the project.	N/A
Recommendations		Status
<ul> <li>According to Agile Best Practices, the team should conduct Sprint demos/reviews in future releases. These demos/reviews will help assess the completion of user stories, review important metrics and outcomes, and confirm if the Sprint goal has been achieved.</li> </ul>		New



#### IV&V Findings & Recommendations Test Practice Validation

#	Key Findings	Criticality Rating
2	Medium Issue – As a result of regression testing not being consistently performed, production releases are breaking and/or deprecating existing functionality in the production environment. July Finding Update: Full use of automated regression testing capabilities was delayed in July due to resource bandwidth and competing priorities, i.e., the Golden Record. A meeting was scheduled to meet with Tricentis in early August. The timeline for developing the DDD portion of this is expected to commence in August and will run through November. Detailed plans are being finalized. IV&V will continue to monitor this medium criticality finding.	M
Recommendations		Status
en	evaluating the schedule priorities by distributing the work according to the resource bandwidth. This will sure that the schedule is not impacted and that the work is done efficiently between regression testing and lden Record (GR).	New
	rsue and complete additional formal training in AzureDevOps and Tricentis for test automation at the liest possible juncture and complete efforts to automate the 2 primary regression test scripts.	In progress
• De	veloping a common and consistent regression testing approach across DDD and CAMHD.	Completed
	termining if current regression testing timeframes are adequate and if not, add more time to the pre- oduction regression test efforts for all release deployments.	Completed



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

Recommendations	Status
Updating the regression test scripts to ensure consistency with system configuration.	Completed
Modifying release schedules to allow for regression testing timeframes.	Completed
<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 FSU 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. (This recommendation was for a point in time and is no longer valid.)</li> </ul>	Completed
<ul> <li>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
Modifying the deployment scripts based on information gained from previous release deployments.	Completed



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

Recomme	ndations	Status
	ing with RSM to determine how the 'interim testing processes' can be improved until such time that ted testing is available for repeatable and complete industry standard regression testing.	Completed
Perform	ing an RCA in collaboration with RSM for the continued concerns with regression testing efforts.	Completed

11

#### IV&V Findings & Recommendations Release / Deployment Planning

#	Key Findings	Criticality Rating
18	<ul> <li>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.</li> <li>July Finding Update: There were no deployment errors identified for R4.1. While the deployment issues have been fewer with the last few releases, this is still an area of concern for IV&amp;V. IV&amp;V will continue to monitor this medium exposure project issue.</li> </ul>	M

Recommendations	Status
<ul> <li>Ensure there are adequate and qualified resources to support the current deployment processes. This may require support from RSM resources to provide assistance and knowledge transfer for some of the more complex deployment components.</li> </ul>	In Progress
<ul> <li>Consult on a regular basis with Microsoft and RSM on best practices that BHA could employ to support deployment.</li> </ul>	In Progress



### IV&V Findings & Recommendations 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
<ul> <li>The Project Team should consider evaluating potential changes to improve/enhance existing processes and communications to address current release/deployment shortfalls.</li> </ul>	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>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
<ul> <li>Ensuring an operational and fully functional test environment is available to effectively conduct end-to-end regression testing prior to deploying a release to production.</li> </ul>	Completed
<ul> <li>Working 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>	Completed



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

Recommendations	Status
<ul> <li>Developing 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
• Determining an improved manner for managing DOH environments to avoid an error-prone process of 'cherry picking' what is and what is not ready for deployment. (As a result of how the current development environment is being managed, 'cherry picking' components to deploy will continue to occur. This recommendation is closed.)	Closed



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

#	Key Findings	Criticality Rating
31	<i>New Medium Risk</i> - The Golden Record (GR) project continues to be delayed. Golden Record (GR) is a foundational element that impacts several user stories dependent on GR. GR deployment is now pushed out to 08/19/2023. As a result, many user stories, e.g., 141 user story points of the 309 user story points, have been moved into R4.2 and subsequent releases. It is still being determined which GR-related User Stories will be included in the subsequent releases, 4.2 and onwards.	M
Recommendations		

 Identify the objective of implementing GR, benefits, current gaps in design, effort estimates, resource commitments, and impact of having/not having GR.

Analyze the impact on the future functionalities and assess the implications if this strategic change is needed.
 New



New

## IV&V Findings & Recommendations Project Management

#	Key Findings	Criticality Rating
14	<ul> <li>Medium Issue - Due to multiple quality concerns, the Project may continue to face impactful system defects.</li> <li>July Finding Update: While the quality remains a concern, R4.1 resulted in only one high-priority post-production bug attributed to a design error from HSRI. IV&amp;V will continue to monitor this medium exposure issue.</li> </ul>	M

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



## IV&V Findings & Recommendations Project Management (cont'd)

Recommendations	Status
<ul> <li>Performing an RCA in collaboration with RSM after all future release deployments for continual quality improvement.</li> </ul>	Completed
<ul> <li>Collaborating (DDD and CAMHD) on the necessary revisions to the submitted design deliverables to increase level of detail and quality.</li> </ul>	Completed
<ul> <li>Performing typical project testing including System Integration, User Acceptance, Performance, and Regression Testing.</li> </ul>	Completed
<ul> <li>Dedicating sufficient time in between releases for BHA and RSM to execute/implement RCA correction actions to reduce the volume of unplanned rework.</li> </ul>	Completed



## IV&V Findings & Recommendations Project Management (cont'd)

#	Key Findings	Criticality Rating
22	<ul> <li>Closed Medium Issue - The project schedules for 'big boulder' functionality development are slipping.</li> <li>July Finding Update: The remaining Big Boulder items have been planned for Phase 4, and, hence closing this finding. However, IV&amp;V will monitor the Big Boulder interface functionality in Phase 4 and provide any significant observations in the following reports.</li> </ul>	M

Recommendations	Status
Strive for ongoing velocity metric of a minimum of 120 user story points in any given release.	Completed
<ul> <li>Identify the reason(s) for the lower-than-expected R3.27, R3.28, and R3.29 velocity to determine if corrective actions need to take place.</li> </ul>	Completed
<ul> <li>Extend the current DDI timeframe to allow for the completion of 'big boulder' interfaces functionality development.</li> </ul>	Completed
Adding resources to support the development of "big boulder' interfaces functionality.	Completed



#### IV&V Findings & Recommendations Project Performance Metrics

Metric	Description	IV&V Observations		IV&V Updates					
			Velocity Metric Trends:						
	<ul> <li>Review and validate the velocity data as reported by the project</li> </ul>	hulte Valasite was estimated at 200 including	Release	Planned V elocity	Actual Vel ocity	Percentag e Attained			
Velocity		<b>July</b> – Velocity was estimated at 309, including R4.1 MSD user story points for R4.1. 135 USPs development was completed for R4.1 MSD. A final	R4.1	168	114	68%			
Totoony	<ul> <li>Verify the project is on pace to hit the total target number</li> </ul>	total of 114 USPs were promoted to production on 07/20/2023 for R4.1.	R4.1 MSD	141	135	96%			
	of US/USP		R4.1 including MSD	309	249	81%			



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

Metric	Description	IV&V Observations	IV&V Updates
Defect Metrics	<ul> <li>Understand and track the following:</li> <li>Defects by category (bug fixes)</li> <li>USPs assigned to defects in a release vs. USPs assigned to planned US in a release</li> </ul>	<ul> <li>July - R4.1 was deployed to production on 07/20/2023. A total of 114 USPs were promoted to production.</li> <li>81% of the USPs were associated with planned user stories and requests.</li> <li>19% of the total USPs were associated with defects encountered during the release effort or pulled from the backlog.</li> </ul>	The defect percentage for July was 19% which is under the target range of 20% or less of all USPs promoted to production.



# **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).</li>
 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.



R

#### Appendix A Finding Criticality Ratings

Criticality Rating	Definition
8	A high rating is assigned if there is a possibility of substantial impact to product quality, scope, cost, or schedule. A major disruption is likely, and the consequences would be unacceptable. A different approach is required. Mitigation strategies should be evaluated and acted upon immediately.
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

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

#### Meetings attended during the July 2023 reporting period:

- 1. Daily Scrum Meetings (selected)
- 2. Twice Weekly RSM Issues Meeting
- 3. Weekly BHA-ITS Project Status Meeting
- 4. Bi-Weekly Check-in: CAMHD
- 5. Bi-Weekly Check-in: DDD
- 6. IV&V Draft IV&V Status Review Meeting with DOH
- 7. IV&V Draft IV&V Status Review Meeting with RSM and DOH
- 8. DOH BHA IT Solution Project Steering Committee 2023
- 9. HI DOH BHA Project CMS Certification
- 9. IV&V Hand-off Meeting
- 10. HI BHA INSPIRE Demo
- 11. IV&V DevOps Walkthrough

#### Eclipse IV&V<sup>®</sup> Base Standards and Checklists



#### Artifacts reviewed during the July 2023 reporting period:

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





## Appendix C Project Trends

	Trend: O	verall Proj	ect Health	1						
	2022/2023									
Process Area	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July
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	10	10	10	8	10	10	9	6	4	5
Issue - high	5	4	3	3	2	2	1	1	0	0
Issue - medium	4	5	4	2	3	3	4	3	4	3
Issue - low	1	1	3	3	3	3	2	1	0	0
Risk - high	0	0	0	0	2	1	0	0	0	0
Risk - medium		0	0	0	0	0	1	1	0	1
Risk - low		0	0	0	0	0	0	0	0	0
Preliminary Concern	0	0	0	0	0	1	1	0	0	1



**Solutions that Matter** 

ID	Date Identifi	Finding	Finding Statement	Supporting Analysis	PCG Recommendation	Finding Update	Process Area	Finding Type	Priority	Status	Risk Owner	Closure Reason
1.00	12/31/2019	Detailed investigation into the	IV&V is currently investigating the	While having a high level	As much as possible, the project	01/31/2020 - IV&V is closing	Sprint Planning	Preliminary Co	N/A	Closed	Ramesh, Vijaya (PCG)	Due to multiple
		project's sprint planning	following topics as they relate to	roadmap is good, the project	should identify what feature	this concern, and will be						new items being
		processes and adoption of	Sprint Planning and the project's	should be able to identify what	enhancements will be targeted	tracking items related to						tracked at a
		generally accepted agile best	overall approach to agile software	feature enhancements will be	for each Release and should	Definition of Done, roadmap,						more granular
		practices.	development: - IV&V acknowledges	targeted for each planned	clearly map out the roadmap out	resourcing, and backlog						level, this item
			that the project is now planning three	release. This roadmap will help	through the last Phase 3 release	grooming in new, separate						has been closed.
			sprints outs, however, it appears that	the project manage scope and	in September 2020.Additionally,	findings.						
			only a "high-level" sprint planning	· · ·	the project should clearly define							
				"definition done" is an	"Done" to ensure the project							
			unclear exactly how the project is	important artifact to ensure	team is working towards the							
			targeting features for each release	that the project is successful.	same goal and increase							
			through the end of Mod 4 IV&V is	Otherwise, the project will	opportunities for success. Having							
				struggle to prioritize	a clear "definition of done" will							
			currently defining "done" for Mod 3	requests/enhancements and	help provide the project with							
			and Mod 4Additionally, in the	manage scope.	guidance on how to stay within							
			January 2020 reporting period, IV&V		scope.							
			will seek additional information and									
			visibility into the project's processes									
			specific to prioritizing requests and									
			how user stories in TFS are tagged to									
			features, as well as the realignment									
			of project development and									
			configuration resources to complete									
			the scope of Release 3.5.									

2.00	12/31/2019	As a result of regression testing	R3.3 introduced a defect that	Thorough vetting and validation	IV&V recommends reevaluating	07/31/2023 - The regression	Test Practice	Issue	Medium	Open	Gautam Gulvady	
		not being consistently	deprecated features in production	of regression test cases is	the schedule priorities by	testing automation and	Validation					
		performed, production releases	specific to Integrated Support and	necessary to prevent both	distributing the work according to	execution continued to be						
		are breaking and/or	Life Trajectory functionality. DDD has	defects and the deprecation of	the resource bandwidth. This will	delayed due to limited						
		deprecating existing	informed IV&V that there are other	production functionality when a	ensure that the schedule is not	resource bandwidth and						
		functionality in the production	examples of functionality being	release is pushed live. When	impacted and that the work is	competing priorities, e.g.,						
		environment.	deprecated after a release, some of	defects occur in production, the	done efficiently between	Golden Record (GR). It is						
			which are still being investigated. As	project should follow a defined	regression testing and Golden	unclear how the project plans						
			of this report, IV&V has not evaluated	and repeatable process for	Record (GR).	to complete the remaining						
			the project's root cause analysis	determining the root cause of		automation regression tests.						
			(RCA) process used to determine why	the problem.	Pursue and complete additional							
			such functionality was deprecated		formal training in AzureDevOps							
			but will discuss further with BHA in		and Tricentis for test automation	6/30/2023 - Full use of						
			January 2020.			automated regression testing						
					and complete efforts to	capabilities continued to be						
						delayed in June. BHA has						
					8 p	purchased both the required						
					IV&V recommends DDD and	licenses and the needed						
						coaching sessions from						
						Tricentis to help ensure						
					and so be benothing	success. RSM assigned a staff						
					regression testing.	member in mid-June to						
					Determine in current regression	perform research on the						
					testing timenames are adequate	toolset to assimilate with the						
					and if not, add more time to the	environment, and to						
					pre production regression test	implement this solution for DDD. The timeline for						
					enorts for all release							
					deployments.	developing the DDD portion of						

3.0	12/31/2019	Usage of open source JavaScript	IV&V learned in December 2019 that	Open source tools and	IV&V recommends BHA work to	08/31/2020 - IV&V is unaware	Targeted KT	Risk	Low	Closed	Darren Macdonald	RSM has
			the Calculator 3.0 functionality is	frameworks offer organizations	establish a reliable and	of any additional KT gaps being						successfully
			built in Vue.JS, an open source	great opportunities to build and	repeatable process for keeping	identified by DOH, and as						held several KT
			JavaScript framework. As this	configure customized solutions	abreast of communal updates	such, is closing this						sessions for this
			framework is relatively new, the	at lower costs than through	and support opportunities for a	finding.07/31/2020 - The						technology and
			open source support community is	software purchase or licensing.	new suite of tools -	Project resolved the majority						functionality,
			small. IV&V's concerns include: - The	However, open source tools	CompletedIV&V recommends	of the outstanding Calculator						and DOH staff
			availability of reliable support for	and frameworks often do not	BHA continue to hold targeted KT	3.0 defects during July which						have stated that
			Vue.JS - The project's understanding	come with support models,	sessions with RSM on	was implemented in the mid-						it was well
			of any known vulnerabilities with	other than those offered	maintaining Calculator 3.0 via a	sprint release on 7/17/2020.						received.
			Vue.JS, and development of a process	through the tool's community.	suite of tools, and determine	The final Calculator 3.0						
				Because of this, the	_	Knowledge Transfer session						
				organization bears the weight	and/or resources are needed to	was conducted on 7/17/2020.						
			-	• · · ·	support BHA's long-term	IV&V recommends BHA to						
					ownership of Calculator 3.0 -	identify and communicate any						
				proactive approach to security	Completed	additional KT gaps to RSM						
			-	and identifying any		during the month of August. If						
				vulnerabilities in the tools.		no additional needs are						
			getting familiar with it.			identified, IV&V will close this						
						finding. 06/30/2020 - The						
						project continued to focus						
						attention on the Calculator 3.0						
						defects during the month of						
						June. RSM conducted another						
						Calculator 3.0 Knowledge						
						Transfer session on 6/26/2020						
						and scheduled a final session						
						for 7/17/2020. 05/31/2020 -						

4.00	1/31/2020	Due to the project not following	There have been several defects	A complete, up to date, and	IVV recommends documenting	12/31/2020 - IV&V has closed	Release/Deploym	Issue	Medium	Closed	Darren Macdonald	Key finding has
			pushed to production with Phase 3	documented deployment script	deployment scripts for both the	this issue as the related						been addressed
			releases. Some of the defects	is needed to ensure the	patch method and the full	recommendations below has						and proposed
			introduced to production have been	repeatability and stability of	solution upgrade method. The	been completed. A subsequent						IV&V
			narrowed down to environmental	DOH's production deployments.	script(s) should be in the form of	medium issue finding (#19) has						recommendatio
			promotional activities. In these	Since there are currently two	a step-by-step procedure that	been opened to address						ns have been
			instances, the DEV and TEST	deployment types (patches and	walks through from start to finish	ongoing deployment processes						completed. A
			environments were not in sync with	full solution upgrades), two	of the deployment process and	and technical execution issues.						subsequent
			the production environment (missing	scripts may be warranted. An	involve several technical staff to	11/30/2020 - Release 3.10 was						finding #19 has
			business rules, missing components,	embedded process and	ensure staff availability to	promoted to production on						been created to
			missing dependencies, etc.). IVV is	documented script will help	accomplish these tasks when	11/11/2020. Approximately						address on-
			aware that DOH staff shadowed RSM	ensure that mistakes are	primary deployment personnel	nine (9) new defects were						going
			staff for all deployment releases	minimized, and that	are unavailable. Standardize the	identified after the						deployment
			during Phase 2 with RSM providing	functionality is not mistakenly	content of all developer	deployment. Root causes are						processes and
			instruction and DOH staff physically	deprecated when deployments	deployment task notes, with a	suspected to be a combination						technical
			executing the tasks and activities via	take place.	goal of eliminating any potential	of insufficient testing from a						execution
			keyboard. For Phase 3, it is unclear		ambiguity to the Deployment	business perspective coupled						issues.
			whether a complete, up to date, and		Team, resulting in a cleaner and	with deployment issues. A bulk						
			documented deployment script, or		more repeatable set of	record update task required as						
			deployment notes, are being utilized		deployment processes and	part of the implementation						
			by BHA for deployment activities.		instructions.	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						

5	.00	1/31/2020	The project lacks a documented	BHA does not have a documented	The 'Definition of Done"	Project is currently in the process	02/29/2020 - The project	Project Managem	Preliminary Co	N/A	Closed	Ramesh, Vijaya (PCG)	Definition of
				'Definition of Done' (DOD) for the			created and documented the						Done completed
				BHA Top 100 User Stories of for		Done. IV&V recommends that the							and socialized.
				Phase 3. Because of this, it is unclear		project create this document and							
				how proposed functionality/features	° , ,	· ·	recommends the project						
				are prioritized for each sprint, and			continually review and update						
							the Definition of Done,						
				*			adjusting as/if necessary. IV&V						
							will continue to monitor the						
						resources and define "Done" as a	project's adherence to						
					which may be equally	percentage of the identified	Definition of Done and						
					important but are at odds with	priority list with room for	progress against it but is						
					each other.	flexibility to add any other	closing out this concern as of						
						features/enhancements that will	the February report.						
						be identified during Phase 3.							

6.00	1/31/2020	The lack of consistent backlog gr	The backlog of defects, requests, and	A comprehensive, up-to-date	IVV recommends that CAMHD	06/30/2020 - IV&V has	Project Managem Risk	Low	Closed	Darren Macdonald	The project has
			user stories continues to grow.	backlog is a primary tenet of	and DDD groom the backlog to	observed for another month					demonstrated
			Currently, there are approximately	agile software development. If	bring it as current and accurate as	that the project continues to					they are
			429 defects and requests, of which	a backlog is carrying work items	possible. This should include	groom the backlog. As a result,					consistently
			almost 200 have a status of 'New'.	that may not ever be completed	deprecating items no longer	we are closing this					grooming the
			IVV notes that a large percentage of	for any reason, they should be	needed, and fully defining those	finding.05/31/2020 - The					backlog.
			the backlogged work items do not	removed from the backlog to	items that are not yet fully	project team has determined					
			have user story points estimated.	ensure its viability.	defined, readying them for	the backlog grooming effort					
			Many of the items listed in the		configuration or developer	has caught up, as details for					
			backlog are old, and some may have		resources. To the extent feasible,	release 3.9 are completed and					
			had needs or requirements change		BHA should involve RSM SMEs in	3.10 is near completion. IV&V					
			over time or may now be obsolete.		this process, if only for the	will keep this finding open for					
			IV&V notes that DDD and CAMHD		interim to get "caught up" on	an additional month to					
			have initiated this effort and agreed			validate that the backlog					
			to prioritize grooming the backlog by		recommends that the project	continues to be groomed as					
			the end of February.		consider utilizing an age-based	new stories and defects are					
						identified. Efforts to keep the					
					of 'older' user stories in the	backlog groomed should take					
					backlog that may no longer be	place each month so that					
					applicable or needed by the	release planning efforts are					
					Product Owners and developing a						
						project reported that 97% of					
						the original backlog has been					
					methodology. (Closed)	estimated at this time. That					
						said, CAMHD has determined					
						that there are several older,					
						and possibly no longer					
						necessary user stories in the					

7.00	1/31/2020	The RHA Technical Team bandur	The RHA Technical Team place a set	The RHA Technical Team last	RHA poods and should pursue	01/21/2022 The man DCM	Sprint Planning	Issue	Low	Closed	Darren Macdonald	
7.00	1/51/2020	The BRA rechinical ream bandw	The BHA Technical Team plays a role	The BHA Technical Team leads	BHA needs, and should pursue,	- , - ,	Sprint Planning	Issue	Low	Closed	Darren Macdonald	
			that is critical to project success. Currently, the responsibilities	the efforts of all technical DOH staff on the project. As such,	additional Knowledge Transfer sessions on the updated	team members joined the Project during January. IV&V						
				· ·								
			associated with the BHA Technical	the Team's time is both	Calculator 3.0 solution	has deemed the technical staff						
			Team have expanded beyond their	extremely valuable and scarce.	The Project should investigate	member levels to be sufficient						
			collective available bandwidth. IV&V	If the Team's expected	mechanisms of increasing the	for the project needs, and as a						
			notes that BHA began addressing this	workload exceeds bandwidth,	bandwidth of the BHA Technical	result, we are closing this						
			bandwidth issue, which includes	the project could experience		finding.						
			increased collaboration with key RSM	bottlenecks. Optimization of	through new hires, or vendor	12/31/2022 - One additional						
			resources, and are working to	the BHA Technical Team's time	contracts.	RSM team member was added						
			potentially change the structure of	is to the benefit of the project		in December to meet the						
			the Technical Team.	and plays a critical role in the	possible, if there are	demands of the larger-size						
				project's ability to hit	responsibilities of the BHA	release plans in releases R3.28						
				performance targets and	Technical Team that can be	R3.30. In addition, two more						
				achieve the Phase 3 definition	reassigned to other project staff.	RSM team members are						
				of done.	The Project should evaluate	joining the Project in January.						
					where process inefficiencies can	IV&V has deemed the staff						
						levels to be sufficient and as a						
					possibly free up the BHA	result, we are reducing the						
					Technical Team's availability.	criticality rating for this finding						
					The Project should consider the	to a "Low". IV&V will continue						
					formation of a first level resource	to monitor this finding.						
					team to triage/address	11/30/2022 - Additional RSM						
					production defects in a timely	team members joined the						
					manner, without disrupting new	Project in November to meet						
					development work.	the demands of the larger-size						
					The Project should consider	release plans. IV&V has						
					procurement of an online	reduced the criticality of this						
8.00	1/31/2020	The lack of a Product Roadmap	BHA does not have a single, definitive	A Roadmap is a tool that guides	IV&V understands that the		Project Managem	Preliminary Co	N/A	Closed	Ramesh, Vijaya (PCG)	Product
			Product Roadmap for Phase 3 that	an agile project on what	Project is in the process of	project further defined the						Roadmap
			addresses the functionalities,	functionalities/features are	creating a Short Term; Mid Term,	Phase 3 Product Roadmap and						aligned with
			features, and / or enhancements to	targeted to be built and	and Long Term Roadmap. IV&V	aligned it with the Phase 3						Definition of
			be built in order to fully address	released and when users can	recommends the Project	Definition of Done. IV&V						Done
			BHA's business needs. IV&V met with	have access to these	complete this by the end of	recommends the project						
			RSM and BHA on this topic in	functionalities. Without a	February 2020 to understand if	continually review and update						
			January, and notes that the project is	defined Roadmap the project	there are any constraints	both the Product Roadmap						
1			actively working to address this	may not be able to effectively	(resources, budget) that may	and Definition of Done,						
			concern.	scope the top features to be		adjusting as necessary. IV&V						
				released within Phase 3 and	the needed	will continue to monitor the						
				ensure the correct resources	functionalities/features targeted	project's adherence to the						
				are available to accomplish the		Product Roadmap and						
				goal of each sprint and the	Definition of Done.	progress against it but is						
				Phase.		closing out this concern as of						
						the February report.						

9.0	0 3	/31/2020	The COVID-19 pandemic and the	On 3/23/2020, the Governor issued a	DOH stakeholder participation	- IV&V recommends BHA to ramp	04/30/2021 - The Project	Project Managem Risk	Low	Closed	Darren Macdonald	The Project
				"stay at home, work from home	in key activities could be	up efforts to setup, train, and	continues to maintain its					continues to
				order" that has reduced state	significantly hindered, not only	assist stakeholders on remote	ability to operate with staff					maintain its
				departments ability to be fully	by required remote work by	work devices and tools and make	working remotely, effectively					ability to
				functional as the large majority of	DOH and SI staff, but also by	every effort to help them to	overcoming the "stay at home,					operate with
				state workers will be required to	the flood of activities that could	become highly functional with	work from home order" that					staff working
				work from home/remotely at least	occur as the department could	remote access technology (e.g.	reduced BHA's ability to be					remotely,
				until the end of April and some	become overwhelmed	MSTeams/Skype) - Completed-	fully functional in the office.					effectively
				offices may be completely shut down	processing and providing	IV&V recommends the project	The potential DDD and CAMHD					overcoming the
				until that time as well. Unclear if the	services due to the resulting	and DOH create a detailed,	budget challenges reported in					"stay at home,
				order will extend beyond that date.	economic impacts to citizens.	documented risk mitigation	March were also overcome					work from
					Some stakeholders may be	strategy and plan that is reviewed	during April, providing fiscal					home order"
					unable (due to stricter	regularly and revised to address	relief to BHA. As such, IV&V is					that reduced
					shutdown policies) or unwilling	the current state of the COVID-19	closing this finding.03/31/2021					BHA's ability to
					to perform these activities	threat and related impacts over	- The Project continued to					be fully
					during this chaotic time.	the next 6 to 12 months - In	maintain its ability to operate					functional in the
					Planned SI on-site visits will also	Progress - IV&V recommends	with staff working remotely,					office. The
					likely be changed to remote	updates to the OCM Plan to	while COVID-related					potential DDD
					which could reduce the	include any new activities or	responsibilities continue to					and CAMHD
					effectiveness of their project	updates to planned activities to	grow for CAMHD Leadership.					budget
					activities. Going forward most	aid the organization through this	The Governor announced that					challenges
					if not all project activities will	COVID-19 situation in the short	potential furloughs and/or					reported in
					more than likely be conducted	and long term - Open	layoffs of State workers will no					March were also
					remotely until this crisis passes.		longer be necessary based on					overcome
							the signing of the American					during April,
							Rescue Plan. IV&V has reduced					providing fiscal
							the priority of this finding from					relief to BHA.
							Medium to Low and will					

10.00 5/3	31/2020	The lack of design reviews for co	There were a couple incidents during	If all requirements within a	IV&V recommends (and DOH has	07/31/2020 - The Project	Sprint Planning	Preliminary Co	N/A Closed	Darren Macdonald	This process
			May where the code promoted to	functional design are not met,	commenced) conducting	continues to to spend					change to spend
			production did not fully meet all	users could experience the	technical design reviews for	additional time on the designs					extra time on
			requirements of associated user	inability to complete required	complex user stories prior to	of complex user stories during					the design of
			stories for CAMHD Progress Notes.	processes, resulting in	development to ensure designs	June to ensure requirements					complex user
			The components that were	incomplete data collection and	are complete and all	and user story components					stories to
			developed and implemented were	potential issues in service	requirements associated with the	were fully captured in design					ensure that all
			functional, however the effort was	delivery.	design are met. IV&V observed	sessions. This process change					requirements
			complicated by additional		this activity has been	has proven successful, and as					are represented
			requirements being added during		implemented by DOH in the	such, IV&V recommends					has proven to
			development that necessitated		month of May.	closing this					be successful.
			additional changes to the design.			concern.06/30/2020 - IV&V					
			IV&V will continue to monitor the			acknowledges the Project					
			design review activity for large user			Team continued to spend					
			stories moving forward			additional time on the designs					
						of complex user stories during					
						June to ensure requirements					
						and user story components					
						were fully captured in design					
						sessions. IV&V will continue to					
						monitor in July.					

11	.00 7/31/2020	DDD Project resource shortages	The user adoption and training	The significance and impact of	IV&V recommends that BHA does	03/31/2021 - The DDD staff	Project Managem	Risk	N/A	Closed	Darren Macdonald	The DDD staff
			efforts are hampered based on	OCM can never be understated.	as much as possible within its	who've been part of the						who've been
			staffing shortages. DDD has stated	It is clearly a best practice that	sphere of influence to increase	review process are pleased						part of the
			that its users have been found to not	best that all staff utilize the	user adoption and training. This	with the quality of the videos						review process
			be utilizing the system to its fullest	solution in the same manner.	includes procurement of the	produced within the toolset						are pleased with
			extent in terms of system workflow,	Variations in how the system is	online training toolsets to offset	and have determined that the						the quality of
			provide their insights and input,	utilized by its users is likely to	the need for in-person training,	toolset is a very helpful						the videos
			follow up, etc. To assist in OCM	cause variations in data	and adding staff as needed to	training tool for DDD staff and						produced within
			activities, DDD has defined the need	collection and analytical efforts	support OCM and technical	providers. As such, IV&V is						the toolset, and
			for an interactive training tool to	using the data collected.	efforts. IV&V recommends DOH	closing this finding.02/28/2021						have
			support Inspire.		perform a detailed investigation	- Training videos using the new						determined that
					of the specific variations as to	toolset were nearing						the toolset is a
					how the system is currently being	completion by the end of						very helpful
					used by the user community.	February. DOH is currently						training tool for
					Consequently, users would be	reviewing the drafts of the						DDD staff and
					provided with constructive	second set of videos and work						providers.
					feedback on how the system	is progressing well. IV&V will						
					should be utilized where gaps	continue to monitor this						
					exist. This will likely lead to	finding until DDD has had						
					additional refresher training to	sufficient time to determine						
					close identified system	the overall quality of the						
					knowledge gaps.	training work products and						
						whether the new toolset is						
						addressing user adoption and						
						staffing shortages for these						
						task efforts. 01/31/2021 -						
						Training design activities using						
						the interactive training toolset						

12.00	8/31/2020	PII/PHI data in non-production e	IV&V has been made aware that	Failure to secure PII/PHI data	IV&V recommends BHA escalate	05/31/2023 - As part of R3.22,	Project Managem	Issue Me	dium	Closed	Darren Macdonald	
			PII/PHI data currently exist in a non-	leaves the organization open to	the pending Security Assessment	RSM utilized an updated						
			production environment to meet	highly targeted social	approval if possible.	design for the scrambling of PII						
			project needs. Generally this is not a	engineering attacks, heavy	IV&V recommends DOH consider	and PHI data in non-						
			good security practice as the	regulatory fines, and loss of	limiting the volume of	production environments. The						
			presence of PII/PHI data in non-	client trust and loyalty.	environments with PII/PHI data	solution is working as designed						
			production environments increases		and access necessary to support	and expected. As such, IV&V is						
			the potential for theft, loss or		development work, which should	closing this finding.						
			exposure thus increasing the		help minimize this risk.	04/30/2023 - The Project						
			organization's risk. Failure to secure		IV&V recommends if production	continues to research the best						
			PII/PHI data leaves the organization		data is necessary in any non-	options for protecting PII/PHI						
			open to highly targeted social		production environment that	data in non-production						
			engineering attacks, heavy regulatory		DOH establishes a plan for	environments as the previous						
			fines, and loss of client trust and			approach did not yield the						
			loyalty.			results expected. The issues						
					potential masking of data.	identified in March continue to						
					IV&V recommends that DOH	be investigated as time						
					mitigates this finding by	permits. IV&V will continue to						
					minimizing and/or masking	monitor the results of this						
					PHI/PII data in designated non-	effort in May for any positive						
					production environments.	updates or unplanned						
						concerns.						
						03/31/2023 - Validation of						
						work items needed for PII/PHI						
						remediation in the non-						
						production environment(s)						
						continued during March. The						
						Project Team encountered						

13.00	8/31/2020	Project not able to access Activit	The Project recently deployed audit	The unavailability of activity	IV&V recommends that DHS	03/31/2021 - Per BHA, this	Release/Deploym Risk	N/A	Closed	Darren Macdonald	Finding has
	-,,		log functionality into production	logs may hamper the		finding is no longer an issue					been resolved.
			whereby these logs can be accessed		Microsoft until the activity	and recommends closure.					
			and exported as needed. However,	breaches.	logging feature is available in all	IV&V is closing this					
			IV&V was made aware access to		BHA non-production	finding.02/28/2021 - BHA					
			activity logging for users with just		environments.	continued this effort in					
			view permissions will not be available			February despite a					
			from Microsoft in the public sector			workaround being necessary					
			environment until the end of			from Microsoft due to a					
			September 2020. The unavailability			layering issue. Based on					
			of these specific activity logs could			continued delays, it is unclear					
			potentially hamper the investigation			when this important security					
			of future security events until			activity will be completed.					
			implemented.			IV&V will continue to monitor					
						this finding. (Per Kamu, this					
						status information did not					
						correctly reflect the issue as					
						the layering issue has no					
						relation to the activity					
						logs.)01/31/2021 - The					
						implementation effort for this					
						activity moved forward in					
						January. Some of the entities					
						will have activity logging					
						completed in the planned					
						early February Release 3.12,					
						while others will be delayed					
						until Release 3.13. IVV will					

14.00	9/30/2020	Due to multiple quality	System defects identified in August	The identified quality issues	Evaluate existing project staff	07/31/2023 - The R4.1	Project Managem	Issue	Medium	Open	Gautam Gulvady	
		concerns, the project may	that affected claims were due to	have negatively affected DOH	skills and experience level to	deployment in July had						
		continue to face impactful	multi-faceted quality issues were	billing processes and DOH has	ensure they meet BHA support	positive results for delivery						
		system defects.	individually addressed during this	stated these are the most	requirements.	quality. R4.1 results in only						
			reporting period. IV&V notes that	impactful defects discovered to	Perform revenue neutrality fiscal	one high-priority post-						
			there is one remaining defect still	date.	balance testing on a quarterly	production bug and the root						
			being evaluated that affects a limited		basis to ensure revenues are as	cause analysis (RCA) is in						
			number of claims. Overall, the Project		expected.	progress. The defect is due to						
			Team has responded with a		Assign dedicated resources to	a design error from Human						
			commitment to increase project		provide oversight of CAMHD	Services Research Institute						
			quality and is in the process of		Fiscal Processes.	(HSRI).						
			identifying improvements to		Monitor implemented							
			associated testing processes. These		improvements for effectiveness.							
			currently include:Performing		IV&V recommends performing an	06/30/2023 - R3.32 resulted in						
			Revenue Neutrality Testing to ensure		RCA in collaboration with RSM	nine post-production defects						
			expected revenue streams are largely		after all future release	with three critical and two						
			unchanged from one period to the		deployments for continual quality	high priority defects. Of the						
			next. Conducting System Integration		improvement.	nine defects, two were caused						
			Testing, User Acceptance Testing,		BHA and RSM to collaborate on	by environmental						
			Performance Testing, and Regression		the necessary revisions to the	discrepancies, two attributed						
			Testing for Release 3.10. IV&V will		submitted design deliverables to	to design errors, two caused						
			continue to monitor the testing			by documentation issues, one						
			efforts throughout the balance of		quality.	related to a process issue, and						
			Release 3.10 and validate that		r chonn cypical project testing	one due to a deployment						
			enhanced quality processes,		including system integration,	issue. One defect is pending a						
			including industry standard		User Acceptance, renormance,	root cause. IV&V will continue						
			regression testing, continue for Agile		and hegiession resuling.	to monitor this medium						
			Release 3.11 forward. Finally, IV&V		Dedicate sufficient time in	exposure issue.						

15.00	10/5/2020	Usage of Semantics and IDM for	The project noted its intent to obtain	Default	Default	01/31/2021 - The project has	Targeted KT	Preliminary Col	N/A	Closed	Darren Macdonald	The project has
		-	more targeted knowledge transfer of			made great strides addressing	, in the second se					made good
			both the Semantics Reporting and			this concern. A Semantics						progress
			IDM tools. IV&V will continue to			Layer KT session was						establishing and
			monitor this concern.			conducted on 1/29/21 and						initial execution
						multiple IDM and Semantic						of the IDM and
						Layer sessions has been						Semantics Layer
						scheduled in February. IV&V is						, KT plan.
						closing this finding as we no						
						longer view this item as a						
						concern.12/31/2020 - IV&V is						
						aware that an overview of the						
						Semantics Layer KT session						
						was held on 12/16/20. The						
						planning effort will result in						
						additional Semantic Layer and						
						IDM KT sessions in the coming						
						months. IV&V will continue to						
						monitor this						
						finding.11/30/2020 - The						
						project conducted two high-						
						level overview sessions of the						
						Semantic Layer Reporting tools						
						during November. One session						
						was focused on the overall						
						Semantic Layer, and the						
						second session was focused on						
						Semantic Layer Security.						

16.00	10/27/2020	The handwidth of CAMHD Loade	CAMHD has been provided with an	CAMDH Leadership	IV&V recommends CAMHD look	06/30/2021 - As anticipated,	Project Managem	Pick	N/A	Closed	Darren Macdonald	CAMHD
10.00	10/2//2020						ri oject Mallagelli	NISK	N/A	Ciosed		
			approval to commence planning	participation in key activities	for opportunities to augment the							Leadership time
			efforts for expansion of the project	• •	<u> </u>	dedicated to the Project has						dedicated to the
			for ADAD and AMHD & HSH. CAMHD	by the flood of activities that	planning Phase 4 and M&O work.	returned to normal and						project has
			Leadership currently spends 25% of	could occur as the department		expected levels. As such, IV&V						returned to
			their available time dedicated to this	assesses expansion of this		is closing this finding.						normal.
			planning effort.	project to the balance of		05/31/2021 - As anticipated,						
				divisions.		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						
						on Phase 4 Planning, COVID				1		

17	7.00 11,	/30/2020	Due to consistent technical issue	The IDM and Semantic layer efforts	Default	IV&V recommends the project to	08/31/2021 -The number of	Release/Deploym	Issue	N/A	Closed	Darren Macdonald	The volume of
				have experienced several delays		continue to monitor the status of	issues requiring assistance						interactions
				attributable to issues escalated to		outstanding Microsoft tickets and	from Microsoft continues to						needed with
				Microsoft. The issues have ranged		to escalate the priority of these	remain limited, and as such,						Microsoft
				from administrative / communication		tickets as deemed necessary.	IV&V is closing this finding.						remains low and
				(entering issues into the Commercial			07/31/2021 - While the						manageable.
				support instance vs the Government			number of issues requiring						This condition is
				Cloud support instance), to several			assistance from Microsoft						no longer
				key technical issues requiring			remains limited, interactions						impeding
				assistance to resolve. To date, these			with Microsoft are increasing						project
				support needs have added over a			again due to the interface						progress.
				month to the IDM and Semantic			functionality planned for						
				Layer project schedules.			implementation in the current						
							and remaining DD&I releases.						
							The FHIR API interface has						
							required multiple interactions						
							with Microsoft that have						
							resulted in unplanned						
							schedule slippages for the						
							FHIR API implementation.						
							IV&V will continue to monitor						
							this finding. 06/30/2021 - The						
							number of issues requiring						
							assistance from Microsoft						
							continues to be low with only						
							two known items open. As						
							such, IV&V is reducing the						
							priority of this finding to low						

18.00	12/31/2020	Due to on-going deployment	There have been several defects	Repeatable documented	Ensure there are adequate and	07/31/2023 - There were no	Release/Deploy	Issue	Medium	Open	Gautam Gulavady
		processes and technical	pushed to production with Phase 3	release and deployment will	qualified resources to support	deployment errors identified	ment Planning				
		execution issues, the Project	releases. Some of the defects	help ensure that mistakes are	the current deployment	for R4.1. While the					
		may continue to encounter	introduced to production have been	minimized, and that	processes. This may require the	deployment issues have been					
		defects and challenges in	narrowed down to environmental	functionality is not mistakenly	support from RSM resources to	fewer with the last few					
		meeting projected timelines for	promotional activities. In these	deprecated when deployments	provide assistance and	releases, this is still an area of					
		production and non-production	instances, the DEV and TEST	take place.	knowledge transfer for some of	concern for IV&V. IV&V will					
		deployments.	environments were not in sync with		the more complex deployment	continue to monitor this					
			the production environment (missing		components.	medium exposure project					
			business rules, missing components,		Work in collaboration with RSM	issue.					
			missing dependencies, etc.). IVV is		to establish a transition plan for						
			aware that DOH staff shadowed RSM		DOH to assume all deployment	06/30/2023 - A deployment					
			staff for all deployment releases		activities to ensure complete	error was highlighted as the					
			during Phase 2 with RSM providing		ownership of these processes.	root cause for one of the post					
			instruction and DOH staff physically		This should assist with	R3.32 production release					
			executing the tasks and activities via		consistency in approach and	defects. While the deployment					
			keyboard. For Phase 3, it is unclear		execution going forward.	issues have been fewer with					
			whether a complete, up to date, and		As appropriate, consult with RSM	the last few releases, this is					
			documented deployment script, or		on best practices that BHA could	still an area of concern for					
			deployment notes, are being utilized		employ to support deployment.	IV&V. IV&V will continue to					
			by BHA for deployment activities.		Request the assistance of the	monitor this medium exposure					
					RSM Solution Architect in	project issue.					
					reviewing and correcting issues	05/31/2023 - A total of 420					
					associated with consistency of	USP's were deployed to					
					the configurations across	production for R3.32 on					
					environments, ensuring that	05/25/2023. There were eight					
					the test environment is capable	(8) new medium and high					
					of testing ALL functions of any	priority defects identified after					

19.	0 3/28/2021	The pending RSM contract expir	The RSM contract for Phase 3 is	DOH needs to be in a position	Work hand in hand with RSM to	05/31/2021 - Per CAMHD, the	Project Managem Prelimin	ary Cc N/A	Closed	Vic Dudoit	The RSM
			currently planned to complete in	to completely stand on its own	ensure that DOH has the	RSM contract amendments to					amendments
			September 2021. BHA will need a	without the assistance of	knowledge, skills, and capabilities	extend the DD&I effort (Mod					were fully
			transition plan to ensure that it has	vendor support by fall of 2021.	to perform all aspects of the	5) to the end of December					executed in May
			all knowledge transfer and is fully	If DOH is not in a position to	project prior to September 2021.	2021 and also provide M&O					2021.
			capable of managing all aspects of	solely take on the development	If the knowledge transfer takes	services (Mod 6) through May					
			supporting and maintaining the D365	of user stories, testing,	more time than planned,	2022 were fully executed in					
			solution without vendor support until	regression testing, deployment,	consider developing, testing, and	May. IV&V is closing this					
			at least the Phase 4 expansion effort	and the support and	promoting less releases in the	preliminary concern.					
			is procured and initiated. The Phase 4	maintenance of the entire	summer months as the transition	04/30/2021 - The RSM					
			effort is currently expected to	system, there is a risk that	off of vendor support	contract amendment is still					
			commence late in the 4th quarter of	environment stability may be	approaches.	pending approval. This					
			2021, or early in the first quarter of	challenged.		amendment will extend the					
			2022. The Phase 4 procurement			DD&I effort (Mod 5) to the end					
			scope is planned to include			of December 2021 and will					
			additional DD&I activities, as well as			also provide M&O services					
			M&O support activities.			(Mod 6) through May 2022.					
						Mod 5 is expected to be					
						approved in May 2021. This					
						will delay the near-term need					
						for a Transition Plan until first					
						quarter 2022. IV&V will					
						continue to monitor this					
						finding.					

20.00	4/30/2021	The DDD Project Manager will be	The DDD Project Manager performs	The DDD Project Manager is	1) IV&V recommends DDD to	08/31/2021 - The DDD Project	Project Managem Issue	N/A	Closed	Darren Macdonald	The DDD Project
			most of the project duties on behalf	critical to all daily project	continue to look for	Manager returned from her					Manager has
			of DDD and her absence may cause	interactions affecting DDD from	opportunities to augment the	absence, alleviating the DDD					returned from
			an increased level of risk to the	a functional and managerial	existing technical staff in order to	technical staff					her leave, fully
			project. DDD has commenced	perspective. If her duties are	fully support current DDI project	bandwidth/workload					mitigating this
			planning efforts and has assigned	not re-assigned to capable staff	work.2) IV&V recommends DDD	challenges. IV&V is closing this					issue.
			staff to backfill her, although they are	prior to her planned absence,	to consider augmenting their	finding.07/31/2021 - The DDD					
			currently assigned to other project	DDD will be in a challenged	current PM/Business staff in	technical staff continued to					
			tasks and activities. IV&V will	position to effectively	order to allow their technical	face bandwidth/workload					
			continue to monitor this preliminary	contribute to at least the next	staff to focus on technical duties.	challenges during the month					
			concern.	several releases.		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.					

21	.00 6	5/30/2021	Unplanned rework may have an	The continued volume of unplanned	Release defect metrics for	Reduce the amount of unplanned	05/31/2023 - The final defect	Project Managem Issue	Low	Closed	Darren Macdonald	
				rework may have an impact on		rework by continuing to focus on						
				delivering planned DDI functionality	40% of the total USPs for the	quality improvement measures.	determined to be 15% of the					
				with only 4 possible DDI releases	last few releases.	Strive for defect performance	total USPs delivered, meeting					
				remaining for completion.		metric not to exceed 20% of all	the target of 20% or less.					
						user story points in any given	Based on the defect					
						release.	percentage meeting targets					
							from previous releases, IV&V is					
							closing this finding.					
							04/30/2023 - The final defect					
							percentage for R3.31 was					
							determined in April to be 16%					
							of the total USPs delivered,					
							meeting the target of 20% or					
							less. IV&V will continue to					
							monitor this low criticality					
							finding.					
							03/31/2023 - The final defect					
							percentage for R3.30 in March					
							was determined to be 41% of					
							the total USPs delivered as					
							planned to reduce the number					
							of defects in the backlog. IV&V					
							will continue to monitor this					
							low criticality finding.					
							02/28/2023 - The final defect					
							percentage for R3.29 was					
							determined in early February					

22.00	7/30/2021	The project schedules for 'big	The FHIR interface and CAFAS	Weekly RSM Status Report	Strive for ongoing velocity metric	07/31/2023 - The remaining	Project Managem Is	ssue Med	lium	Closed	Gautam Gulvady	The Big Boulder
		boulder' interface functionality	interface are currently at risk of not		of a minimum of 120 user story	Big Boulder items have been						items are now
		development are slipping.	making the planned R3.17 release.		points in any given release.	planned for Phase 4, and,						moved to the
			The Single Sign on components of the		Identify the reason(s) for the	hence closing this finding.						Phase and
			HHIE interface are also currently at		lower-than-expected R3.27,	However, IV&V will monitor						hence closed
			risk of not making the planned R3.17		R3.28, and R3.29 velocity to	the Big Boulder interface						the finding.
			release, and the ADT/Labs		determine if corrective actions	functionality in Phase 4 and						
			components have already missed		need to take place.	provide any significant						
			needed intermediate target dates for		Extend the current DDI	observations in the following						
			the planned R3.17 release. The		timeframe to allow for the	reports.						
			Project will need to re-assess the		completion of 'big boulder'							
			planned implementation dates for		interfaces functionality	06/30/2023 - The last of the						
			these 'big boulder' interfaces,		development.	Big Boulders continued to be						
			including identification of the timing		BHA to add more resources to	the primary focus for the						
			needs by the business teams. At a		support the development of "big	Project during June. Both the						
			minimum, the CAFAS and HHIE		boulder' interfaces functionality.	FHIR and Provider API						
			interfaces are needed by the			initiatives are now expected to						
			program. IV&V also notes that there			be completed in R4.1. The mid-						
			are several new high priority requests			sprint deployment to promote						
			related to the DDD Provider Portal			Golden Record (GR)						
			and 27 production flow jobs that			components that was						
			need to be reviewed for replacement			originally scheduled for mid						
			of older dataverse connectors that			May has been delayed several						
			are known by Microsoft to have			times and is now anticipated in						
			limitations and cause unplanned			mid July. The delays are						
			production issues. Prioritization of			intended to reduce potential						
			these tasks in relation to the big			risks. Processes are being						
			boulders is unclear, as these items			determined and developed						

23.00	7/31/2021	The current DDI period expires a	The current Project Staffing Model	Existing contractual	Obtain IAPDU approval from	02/28/2022 - The IAPDU was	Project Managem Issue	Low	Closed	Darren Macdonald	
			shows a planned reduction in RSM	agreements.	CMS.	approved by Federal partners					
			resources support starting in			in early February, which					
			September 2021 through December			extended the DD&I effort					
			2021. Prior to this timeframe, BHA			through October 2022.					
			should commence the development			Transition from RSM will not					
			of a transition plan to ensure the			be required until					
			appropriate replacement State			approximately August 2022.					
			resources are identified/secured and			Based on the extended time					
			the necessary knowledge transfer			being available for transition					
			sessions are planned and executed			efforts, IV&V is closing this					
			with RSM. BHA will need to be sure			finding.					
			they are ready to take on the			01/31/2022 - There were no					
			development of user stories, testing,			substantive changes to this					
			deployment, and the support and			finding observed during					
			maintenance of the entire system by			January as BHA continues to					
			the end of the DDI period (December			pursue CMS Federal funding					
			2021).			approval for extending DD&I					
						through October 2022					
						followed by M&O through					
						September 2024. IV&V will					
						continue to monitor this					
						finding until Federal funding					
						approved.					
						12/31/2021 - There were no					
						substantive changes to this					
						finding observed during					
						December as BHA continues to					

24.00	10/29/2021	The R3.19 Solution Upgrade tech Solution upgrades are essential for	Daily Scrum Reporting	Ensure there are adequate and	11/30/2021 - R3.19 was	Project Managem Issue	High	Closed	Darren Macdonald	Technical issue
		keeping the system current in order		qualified resources to support	promoted to production as an					resolved and
		to gain access to new features that		the current Solution Upgrade	FSU on 11/14/2021 and access					were attributed
		enhance productivity, eliminate		processes. This may require the	to the development and test					to the following:
		bottlenecks and govern sensitive		support from RSM resources to	environments was again					<ul> <li>Import of</li> </ul>
		information. The current R3.19		provide assistance and	restored. Because the solution					solution taking 1
		solution upgrade work efforts that		knowledge transfer.	upgrade was the first in five (5)					2 hours, timed
		includes patches for 5 releases (R3.15-		As appropriate, consult with RSM	releases, the deployment					out in PROD, so
		R3.19) is causing technical issues. As		on best practices that BHA could	process took approximately 12					had to restore
		a result, R3.19+ development and		employ to support the Solution	hours. This issue did have an					and then restart
		testing work is hampered until these		Upgrade.	impact both on the amount of					from a previous
		technical issues are resolved.			DDI functionality (reduced)					point in time
					included in downstream					backup
					releases and cost implications.					<ul> <li>Errors are</li> </ul>
					IV&V has closed this finding, as					vague –
					it was alleviated by the R3.19					sometimes
					release on 11/14/2021.					indicating
					10/31/2021 - Due to the					"failure" but
					current R3.19 Solution					actually
					Upgrade technical issues, staff					successful
					have been advised to stay out					<ul> <li>MS moving</li> </ul>
					of the development and test					away from
					environments until the issues					Classic UI which
					have been resolved. As a					is changing the
					result, development and					availability of
					testing for R3.19 and forward					some
					are affected by this issue.					functionality /
					IV&V will continue to monitor					how

25.00	6/30/2022	The lack of a formal project gove	The impact of poor project	The strategic goals and	Establish a formal project	10/31/2022 - IV&V reviewed	Project Managem	Issue	Medium	Closed	Vic Dudoit	
					governance structure to allow	the approved BHA – INSPIRE						
					CAMHD, DDD, and other divisions	Solution Program Charter sent						
			decision-making	equal and fair representation of	to 1) have a single point of	by BHA in October and has						
			Project delays and overruns		accountability, 2) ensure the right	determined this finding can be						
			Breakdown in communications and			closed.						
			collaboration		roles, responsibility and	09/30/2022 - The Project						
			An erosion of project team trust		relationships among project	Charter was signed and						
					stakeholders, 4) provide issue	approved during September,						
					management and resolution, and	which is the first step in						
					5) help with information	enacting a formal governance						
					dissemination and transparent	process for the project. IV&V						
					communication.	will continue to monitor the						
						governance activities.						
						08/31/2022 - A Project Charter						
						has been developed but it is						
						unclear to IV&V when it will be						
						approved by the Executive						
						Steering Committee to						
						commence activities related to						
						formal Project Governance.						
						07/31/2022 - A Project Charter						
						has been developed and is in						
						process of review and						
						approval by the Executive						
						Steering Committee to						
						commence activities related to						
						formal Project Governance.						

26.0	) 7/31/2022	The inability for BHA staff to wor	Project team members have reported	Project team members have	IV&V recommends that DOH	05/31/2023 - The	Project Managem Issue	Low	Closed	Vic Dudoit	
			decreased productivity and there is a	reported decreased	consider granting remote work to	Departmental Executive					
			strong likelihood of the Project losing	productivity and there is a	help retain existing staff and to	Committee announced a work					
			team members due to their inability	strong likelihood of the Project	attract new candidates for open	from home policy, where staff					
			to work remotely. This is evidenced	losing team members due to	positions.	may request to work from					
			by a current Help Desk employee	their inability to work remotely.		home up to 3 days per week.					
			retiring early and citing this as the	This is evidenced by a current		As such, IV&V is closing this					
			reason. The Department may	Help Desk employee retiring		finding.					
			consider granting remote work to	early and citing this as the		04/30/2023 - No changes were					
			improve productivity and help	reason.		observed during April. The					
			increase morale to help ensure the			parameters for BHA staff to					
			existing short-staffed issue is not			work remotely are still being					
			further exacerbated.			finalized by the executive					
						committee.					
						03/31/2023 - At the last					
						departmental executive					
						committee meeting, a draft					
						memo was discussed outlining					
						parameters for BHA staff to					
						work remotely. The					
						parameters are being finalized					
						by the executive committee.					
						IV&V will continue to monitor					
						this low-exposure project					
						issue.					
						02/28/2023 - Again, there					
						were no changes to this					
						finding identified in February.					

27.0	0 8/31/2022	The current DDI period expires a	Efforts to submit an IAPDU to pursue	DHS/MQD identified	DHS to obtain IAPU approval	04/30/2023 - The IAPDU	Project Managem	Issue H	High	Closed	Vic Dudoit	
				discrepancies with invoicing	from CMS as soon as possible.	(through Mod 8) was formally			-			
			extending DD&I through May 2023	BHA claims which they are	DHS to reconcile current claims	approved by CMS in early						
			have been stalled as a result of claims	reconciling prior to the	invoicing discrepancies.	April. The Project and its						
			invoicing discrepancies.	submission of an IAPDU.	DHS to submit IAPDU using the	vendors are no longer working						
					newly released template as soon	at financial risk. IV&V is closing						
					as possible.	this high issue.						
						03/31/2023 - The IAPDU has						
						still not been formally						
						approved by CMS. The Project						
						and its vendors are still						
						working at financial risk with						
						only 2 months remaining in						
						the DD&I phase. IV&V will						
						continue to monitor this high						
						criticality finding.						
						02/28/2023 - Although the						
						IAPDU was verbally approved						
						by CMS, a formal response has						
						not yet been provided. The						
						Project and its vendors are still						
						working at financial risk with						
						only 3 months remaining in						
						the DD&I phase. IV&V will						
						continue to monitor this high						
						criticality finding.						
						01/31/2023 - The IAPDU has						
						been submitted to CMS for						

28.00	9/30/2022	The DDD Product Owner resigne	The absence of the current DDD	DDD Product Owner announced	IV&V recommends a formal	01/31/2023 - The prior DDD	Project Managem Issue	Low	Closed	Vic Dudoit	
			Product Owner will cause major	her departure in September	transition plan be fully defined	Project Owner returned to the					
			challenges for DDD as she wore	2022 for early October.	and executed prior to the DDD	project in January 2023, which					
			multiple hats and is responsible for	DDD Product Owner wears	Product Owner departure.	once again provides DDD with					
			many aspects of the day-to-day work	multiple hats supporting both	IV&V recommends DDD seek	an active voice for user story					
			from both an administrative and	business and administrative	(internal/external) multiple staff	prioritization as well as input					
			business perspective.	functions.	to replace the DDD Product	on project concerns, risks, and					
					Owner for each role served.	issues. It is still assumed that					
					IV&V recommends DDD consider	all duties transitioned in					
					soliciting contracted staff to fill	October and November will be					
					the immediate gaps with the DDD	reviewed and re-evaluated to					
					Product Owner's departure.	ensure that the DDD Product					
						Owner's workload is not					
						overloaded with non-project-					
						related responsibilities. With					
						the onboarding of an					
						experienced Product Owner					
						for DDD, IV&V is closing this					
						finding.					
						12/31/2022 - DDD leadership					
						announced the prior DDD					
						Project Owner will return to					
						the project in mid-to-late					
						January 2023. This is viewed as					
						highly positive and is certain to					
						be a benefit to the Project. It					
						is assumed that all duties					
						transitioned in October and					

29.00	2/28/2023	RFP(s) for Project Expansion and	The REP(s) for expansion of the	With three months left on the	Continue to escalate RFP	06/30/2023 - CMS has	Project Managem Risk	Medium	Closed	Vic, Gautam Gulvady	
	_,,		solution and/or maintenance of the	DDI contract, the Project	approvals with DHS.	provided BHA a formal				,,	
			existing solution has been submitted		Seek approval for extending the	approval on the ADAD (Inspire					
			but not approved by CMS.	not been approved by CMS.	existing contract if feasible.	Plus) IAPD and the SI and IV&V					
			but not approved by eivis.	not been approved by eivis.	existing contract in reasible.	RFPs. As a result of the CMS					
						approvals, IV&V is closing this					
						risk.					
						05/31/2023 - CMS has notified					
						BHA that the ADAD					
						components included in IADPU					
						#4 and the RFP should be					
						removed until such time as					
						another IAPDU is submitted					
						and approved. BHA has					
						awarded contracts for the					
						Inspire DDI project. RSM was					
						awarded the SI work and PCG					
						was awarded the IV&V					
						services. CMS approval of the					
						contracts are pending.					
						04/30/2023 - The RFP for					
						Project Expansion and M&O					
						was released in early April, and					
						the IAPDU was approved					
						through Mod 8. Solution					
						Integrator proposals for					
						Project Expansion are					
						expected in early May. Based					

30.00	2/28/2023	The Project deliverables contract	With three months left on the DDI	N/A	N/A	05/31/202 - BHA has awarded	Project Managem Preliminary	Con/A	Closed	Vic Dudoit	
			contract, it is not clear what project			contracts for the INSPIRE DDI					
			deliverables are contractually			effort. The Project is finalizing					
			required from RSM before the			the System, Security, and					
			contract ends.			Architecture Blueprint					
						documentation deliverables.					
						IV&V is closing this preliminary					
						concern finding.					
						04/30/2023 - RSM continued					
						to work on documenting					
						updates to the System,					
						Security, Architecture					
						Blueprint, and Knowledge					
						Transfer deliverables which					
						are expected to be submitted					
						to BHA by the end of the DDI					
						period. With a month left on					
						the DDI contract, the Project					
						needs to focus on preparing					
						for all aspects of turnover and					
						transition activities of the					
						Inspire solution.					
						03/31/2023 - RSM reported in					
						their last March status report					
						the System, Security,					
						Architecture Blueprint, and					
						Knowledge Transfer					
						documentation is on target for					

31.00	7/26/2023	The project does not hold Sprint demos/reviews.	Earlier in the project, end-of-sprint demos that were conducted.Sprint reviews/demos help to bring alignment across the team and stakeholders. They are essential building blocks for better software and teams.Sprint demos/reviews showcase the main functionality to stakholders and incorporate their feedback. Currently, the project has joint testing involving the SI and BHA personnel. Per Agile Best practices, IV&V believes having Sprint demos/reviews during a sprint helps clarify and validate design prior to testing, steer the team in the right direction and help avoid big mistakes. This would also allow the testing team to focus solely on testing, which is beneficial.	during a sprint, with the development team, scrum master, and product owner. Sprint reviews/demos are crucial in bringing alignment across the team and stakeholders. It is a great opportunity for the product owner, stakeholders, and the team to review what's being delivered and receive feedback. This way, the team can gauge responses and make observations earlier during development, and not later during testing. Celebrating the team's accomplishments is also an essential part of these demos. Moreover, they are invaluable in steering the team in the right direction and avoiding big mistakes. It's			Sprint Planning	Preliminary Co	N/A	Open	Gautam Gulvady	
32.00	7/10/2023	The Golden Record (GR) project continues to be delayed	Due to issues with the Golden Record (GR) solution, the project may experience delays and a shift in focus from critical functionality. The GR is a crucial element that affects several user stories dependent on it. The deployment of the GR has been postponed to 08/19/2023, resulting in the transfer of approximately 150 story points into R4.2 and subsequent releases. However, it is unclear which releases will include the GR-related user stories	interesting to note that the GR implementaion has been delayed several times. As a result, GR is impacting the INSPIRE release schedule. E.g., Mid-sprint deployment (MSD) has been postponed multiple times. BHA reviewing original requirements and evaluating if BHA needs to revisit the design.	Identify the objective of implementing GR, benefits, current gaps in design, effort estimates, resource commitments, and impact of having/not having GR. Analyze the impact on the future functionalities and assess the implications if this strategic change is needed.	7/31/2023 - Golden Record (GR) is a foundational element that impacts several user stories dependent on GR. GR deployment is now pushed out to 08/19/2023. As a result, many user stories, e.g., 141 user story points of the 309 user story points, have been moved into R4.2 and subsequent releases. It is still being determined which GR- related User stories will be included in next releases, 4.2 and onwards.	Release/Deploy ment Planning	Risk	Medium	Open	Gautam Gulvady	