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May 31, 2022

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 IV&V report the Office of Enterprise Technology Services received for the State of Hawaii Department of Labor& Industrial Relations Disability Compensation Division's Modernization Project – Electronic Case Management System.

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

Sincerely,

DOUGLAS MURDOCK Chief Information Officer State of Hawai'i

Attachment (1)

STATE OF HAWAII DEPARTMENT OF LABOR & INDUSTRIAL RELATIONS (DLIR)

Disability Compensation Division's Modernization Project – Electronic Case Management System (eCMS)

ANT



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April 26, 2022 | Version 1.0

**MONTHLY ON-SITE IV&V REVIEW REPORT** 

REPORT FINALIZED

May 27, 2022



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## Document History

DATE	DESCRIPTION	AUTHOR	VERSION
05/06/22	Monthly On-site IV&V Review Report Draft created	Julia Okinaka	0.0
05/27/22	Monthly On-site IV&V Review Report Final updated to reflect no comments submitted in Appendix F.	Julia Okinaka	1.0



### **EXECUTIVE SUMMARY**

#### BACKGROUND

The State of Hawaii (State), Department of Labor and Industrial Relations (DLIR) contracted DataHouse Consulting, Inc. (DataHouse) for the Disability Compensation Division's (DCD) Electronic Case Management System Project (eCMS Project). DLIR contracted Accuity LLP (Accuity) to provide Independent Verification and Validation (IV&V) services for the eCMS Project.

The Initial On-Site IV&V Review Report (IV&V Initial Report) was issued on August 30, 2019 and provided an initial assessment of project health as of June 30, 2019. Refer to the full Initial Report for additional background information on the eCMS Project and IV&V. The Monthly On-Site IV&V Review Reports (IV&V Monthly Reports) build upon the Initial Report to update and continually evaluate project progress and performance. Refer to Appendix E: Prior IV&V Reports for a listing of prior reports.

The focus of our IV&V activities for this report included the completion of a twomonth assessment of configuration management and the beginning of a twomonth assessment of system development, design, and integration. IV&V has areas of limited visibility or access to project activities and documentation that may prevent a complete identification of project risks.

The IV&V Dashboard on the following two pages provides a quick visual and narrative snapshot of both the project status and project assessment as of April 26, 2022. Additional explanation is included in Findings and Recommendations by Assessment Area for new findings and in Appendix D: Prior Findings Log for prior report findings. Refer to Appendix A: IV&V Criticality and Severity Ratings for an explanation of the ratings.

TRAINING AND SUPPORT

*"Anything is possible when you have the right people there to Support you."* 

-Misty Copeland



# PROJECT ASSESSMENT

AS OF APRIL 26, 2022



OVERALL RATING

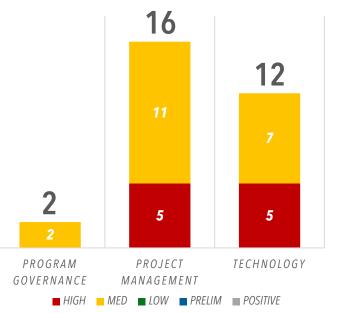


Significant severe deficiencies were observed requiring immediate remediation or risk mitigation.

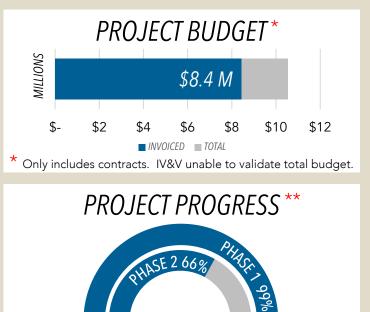


## 30 OPEN FINDINGS

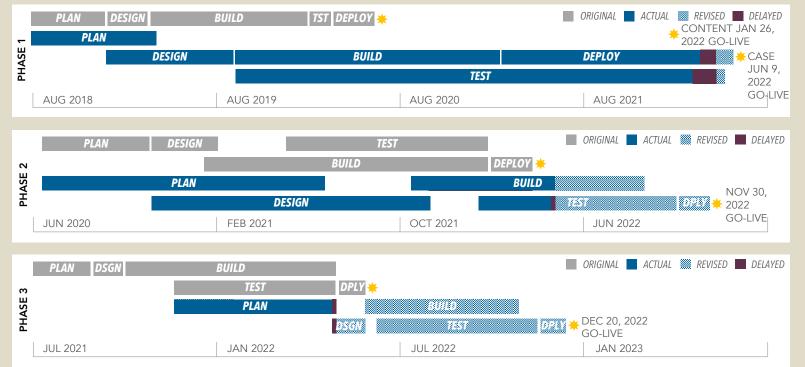
### SEVERITY RATINGS BY ASSESSMENT AREA



## 50 OPEN RECOMMENDATIONS



\*\* As of 04/25/22. IV&V unable to verify %.



## ASSESSMENT AREA & RATINGS SUMMARY

AS OF APRIL 26, 2022

FEB	MAR	APR	IV&V ASSESSMENT AREA	IV&V OBSERVATIONS
R	R	R	Overall	Phase 1 Case Management go-live was deferred to June 9, 2022. As this date is quickly approaching, it is critical to clarify and finalize details in many areas of the project. The number of outstanding project risks and issues may impact DLIR operations if not addressed prior to go-live.
				<i>Project Schedule</i> : Key Phase 1 Case Management tasks are delayed under the newly re-baselined schedule. Phase 2 and Phase 3 tasks are generally on track with the re-baselined schedule. Accuity is unable to fully assess schedule variances (refer to finding 2019.07.PM13).
				<i>Project Costs</i> : Four additional procurements are currently under way, one of which could significantly impact the total cost of the project. DataHouse is prepaid for Phase 1 and 2 but is adjusting Phase 3 invoices under the revised payment schedule. Accuity is unable to fully assess cost variances (refer to finding 2019.07.PM12).
				<i>Quality</i> : DLIR and DataHouse continue to address system issues in production for Phase 1 Content Management and during user acceptance testing (UAT) for Phase 1 Case Management. Quality metrics still need to be defined and collected (refer to finding 2019.07.IT05).
	Y	Y	Program Governance	The eCMS Project Executive Steering Committee (ESC) reconvened to discuss project status, major risks, issues, and decisions. In addition, the ESC approved the re-baselined project schedule. The ESC needs to play a greater role to drive progress and enforce accountability to prevent the continual cycle of delays.
R	R	R	Project Management	Although the project schedule was revised, the June 2022 Phase 1 Case Management go-live is quickly approaching and key tasks are already delayed. Plans for Phase 1 Case Management go-live need to be clarified and finalized including go-live communication activities for external stakeholders, training format and dates, organizational change management (OCM) activities and metrics, and business processes around the new system. The Phase 3 requirements deliverable was provided and is pending DLIR's review and approval. DLIR and DataHouse should continually reassess and adjust foundational project management processes (refer to Appendix D: Prior Findings Log) to prevent future delays and improve project performance.
			Technology	With Phase 1 Case Management go-live six weeks away, the go/no-go criteria, transition checklist, and DLIR testing must be completed. Under the re-baselined schedule, UAT was to be completed by the end of April but is now delayed to mid-May. DLIR's performance of end-to-end testing and plans for regression testing are also still pending. Phase 1 Content Management technical system issues continue to be addressed but the complete status of open issues, the root cause of issues, and system operation roles, procedures, and metrics remain unclear. DLIR turned the legacy Content Management system to read-only which should help to improve user adoption. Phase 2 development sprints continue to progress, but Phase 3 design is on hold for DLIR approval of requirements deliverable. Improvements are still needed for many foundational technology processes (refer to Appendix D: Prior Findings Log). IV&V does not have adequate visibility of DataHouse development, testing, and data conversion activities.

### FINDINGS AND RECOMMENDATIONS BY ASSESSMENT AREA



#### KEY PROGRESS

Revised Phase 1, 2, and 3 go-lives **APPROVED** 

Phase 2 development
sprints <b>PROGRESSING</b>

Phase 3 requirements deliverable **COMPLETED** 

KEY	RISKS

Case Management OPERATIONAL risk

Need to **PLAN** and **EXECUTE** training and other go-live activities

**CONTINUOUS** reassessment and adjustment needed The overall rating is assigned based on the criticality ratings of the IV&V Assessment Categories and the severity ratings of the underlying findings (see Appendix A: IV&V Criticality and Severity Ratings). The tables below summarize the criticality ratings for each IV&V Assessment Category in the three major IV&V Assessment Areas. Six IV&V Assessment Categories declined from the prior report. Although the schedule for all three phases were re-baselined, there are already delays that may impact the feasibility of Phase 1 Case Management go-live. Additionally, the number of outstanding project risks and issues may collectively have a significant impact on DLIR operations if not addressed prior to go-live.

ent S <b>ING</b>	FEB	MAR	APR	PROGRAM GOVERNANCE	FEB	MAR	APR	PROJECT MANAGEMENT
nts				Governance Effectiveness	R	R	R	Project Organization and Management
	V	V		Benefits Realization	R	R	R	Scope and Requirements Management
	FEB	MAR	APR	TECHNOLOGY	R	R	$\textcircled{\begin{tabular}{c} \hline \hline$	Cost, Schedule, and Resource Management
		Y	V	System Software, Hardware, and Integrations				Risk Management
: k	G	3	•	Design				Communications Management
k	Y	Y	Y	Data Conversion		$\mathbf{\hat{v}}$	Y	Organizational Change Management (OCM)
and ties	R	R	R	Quality Management and Testing			Y	Business Process Reengineering (BPR)
				Configuration Management	G	3		Training and Knowledge Transfer
k k								

Security



### PROGRAM GOVERNANCE

Governance Effectiveness

Benefits Realization

### PROGRAM GOVERNANCE

FEB	MAR	APR	IV&V ASSESSMENT	IV&V OBSERVATION	F	INDING	S
FED	IVIAR	АГК	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
	Y	Y	Governance Effectiveness	The eCMS Project Executive Steering Committee (ESC) reconvened this month and approved the re- baselined project schedule. The DataHouse wellness plan was delivered as a project status update during the ESC meeting. The ESC needs to play a greater role to drive progress and enforce accountability to prevent the continual cycle of delays (2021.05.PG01).	0	1	0
<b>•</b>	<b>?</b>	<b>V</b>	Benefits Realization	No significant updates since the prior report. Project success metrics should be reevaluated to take into consideration the current project status and to focus on what can be realistically achieved in the remaining project timeline. DLIR also needs to begin collecting and monitoring success metrics data (2019.07.PG05).	0	1	0



### PROJECT MANAGEMENT

Project Organization and Management

Scope and Requirements Management

Cost, Schedule, and Resource Management

Risk Management

Communications Management

Organizational Change Management

Business Process Reengineering

Training and Knowledge Transfer

R	

### PROJECT MANAGEMENT

FEB	MAR	APR	IV&V ASSESSMENT		ĺ	FINDING	S
FEB	MAR APR CATEGORY		CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
R	ß	R	Project Organization and Management	Project organization and management continue to be a challenge. With Phase 1 Case Management go-live quickly approaching, greater clarity is needed around status, plans, schedule, processes, and metrics. DLIR and DataHouse need to improve collaboration and coordination (2019.07.PM02) to address delays under the re- baselined schedule that are already occurring. Improvements are still needed for deliverable review process (2019.07.PM03) and to address prior IV&V findings or lessons learned (2020.07.PM01).	0	3	0
R	ß	R	Scope and Requirements Management	Requirements continue to be clarified and refined during Phase 1 UAT and Phase 2 development. The Phase 3 requirements deliverable was provided and is pending DLIR's review and approval. Additional improvements in requirement traceability (2019.10.PM01) and requirements management processes (2019.07.PM10) are still needed.	0	2	0



		MAR	APR	IV&V ASSESSMENT		FINDINGS				
PROJECT	FEB	IVIAK APK C/		CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED		
MANAGEMENTProject Organization and ManagementScope and Requirements ManagementCost, Schedule, and Resource ManagementRisk ManagementRisk ManagementOrganizational Change ManagementBusiness Process ReengineeringTraining and Knowledge Transfer	R	R	R	Cost, Schedule, and Resource Management	The eCMS Project schedule was re-baselined and approved by the ESC. However, Phase 1 Case Management go-live is already experiencing delays of key tasks under the newly re-baselined schedule. Phase 2 and Phase 3 tasks are generally on track with the re-baselined schedule. As the Phase 1 Case Management go-live is quickly approaching, it is critical that plans and related tasks are clarified and finalized in order to stay on track with a new schedule. Improvements in schedule management practices (2019.07.PM13) are needed to monitor progress and prevent further delays. DLIR is in the process of procuring additional resources (2019.07.PM14). DLIR should continue exploring other resource management strategies (2019.09.PM02) to increase pace of work. Contract costs are within the total contract amounts. However, costs related to one of the procurements could significantly impact the total cost of the project. DataHouse is prepaid for Phase 1 and 2 but is adjusting Phase 3 invoices under the revised payment schedule. Improvements in cost management processes (2019.07.PM12) are needed to track and monitor other project costs.	0	4	0		
	<b>v</b>	<b>V</b>	<b>V</b>	Risk Management	DLIR and DataHouse need to actively monitor and aggressively mitigate risks related to the upcoming Phase 1 Case Management go-live. Task delays in the new schedule and the large number of open risks and issues collectively may have a significant impact on DLIR operations if not addressed prior to go-live. Improvements in risk management processes (2019.07.PM09) are needed to consistently and proactively mitigate risks.	0	1	0		



	FEE	3 MAR	AR APR	IV&V ASSESSMENT	IV&V OBSERVATION		FINDINGS				
PROJECT		IVIAN	AFN	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED			
MANAGEMENT Project Organization and Management Scope and Requirements Management Cost, Schedule, and		) 🕜		Communications Management	With Phase 1 Case Management go-live quickly approaching, DLIR needs to quickly improve their communications with external stakeholders. DLIR is in the process of procuring an additional resource that will help to develop a communications plan for external stakeholders (2019.07.PM07). Open and transparent dialogue between all DLIR and DataHouse team members (2019.07.PM06) is critical for smooth and timely project execution.	0	2	0			
Resource Management Risk Management Communications Management Organizational Change Management	<	) 🕜		Organizational Change Management (OCM)	Project updates are sent to all users on a weekly basis instead of having core team representatives distribute them. DLIR is developing an OCM plan, event-driven surveys, and metrics to measure user participation and system utilization. Additional OCM plans and strategies (2019.07.PM08) are needed for other phases, including the upcoming Phase 1 Case Management go-live.	0	1	0			
Business Process Reengineering Training and Knowledge Transfer		) 🕜		Business Process Reengineering (BPR)	DLIR continues to clarify business processes during UAT. With Phase 1 Case Management go-live quickly approaching, it is critical that business processes are clarified (2020.12.PM01) for both the Case Management and the complimentary Content Management systems so that users DCD employees know how to perform their work post go-live. Improvements are also needed to discuss, prioritize, and analyze BPR opportunities (2021.08.PM01).	0	2	0			
	6			Training and Knowledge Transfer	With Phase 1 Case Management go-live quickly approaching, training activities need to be formalized in an actionable plan or process (2022.04.PM01). In-person training will be conducted for two of the four neighbor island offices. Users need to be given sufficient time to learn and familiarize themselves with the new systems.	1	1	0			



#### PROJECT MANAGEMENT

Project Organization and Management

Scope and Requirements Management

Cost, Schedule, and Resource Management

Risk Management

Communications Management

Organizational Change Management

Business Process Reengineering

Training and Knowledge Transfer

#### TITLE: INSUFFICIENT TRAINING DETAILS

**Finding:** Insufficient planning and preparation of training activities may limit the project's deployment timeline and user adoption.

**Industry Standards and Best Practices:** Prosci research and Institute of Electrical and Electronics Engineers (IEEE) 15288-2015 Sections 6.2.4, 6.2.6, and 6.4.10 outline best practices for training strategies.

**Analysis:** DataHouse completed their training materials deliverable and train-the-trainer sessions. DLIR is responsible for training other users, however, there is no formal training plan or approach. With Phase 1 Case Management go-live quickly approaching, the training program details need to be finalized and executed to allow users sufficient time to learn and familiarize themselves with the new systems. Some DCD users already received training through participation in UAT. The amount of training and supplemental sessions provided to testers for UAT demonstrates the steep learning curve and long runway time needed for users to learn how to use the new system. DLIR intends for these users to be the network that will help provide informal training and support to other users in their areas. However, some areas do not have a representative from their area (e.g., district offices) or the assigned representative did not actively participate in the UAT supplemental training sessions. Providing formal training will help to ensure that everyone receives consistent, baseline training. DLIR continues to update DataHouse provided training materials with additional information learned during UAT. However, these documents are more focused around and organized by system features rather than business processes.

#### **Recommendations**: 2022.04.PM01.R1 – Finalize a detailed training schedule.

• Include specific dates, times of sessions, trainers, tasks, attendees, curriculum, and materials.

2022.04.PM01.R2 – Develop standard operating procedures.

• Develop specific standard operating procedures for employees to understand how to perform their work using the current workflows in the new system.

#### 2022.04.PM01.R3 - Collect feedback on training.

• Develop surveys to get user feedback to improve future trainings, to measure the effectiveness of training, and to determine the need for additional training activities.

### TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security

	TECHNOLOGY
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550	FEB MAR		IV&V ASSESSMENT CATEGORY	IV&V OBSERVATION	FINDINGS		
FEB	FEB MAR APR	NEW			OPEN	CLOSED	
	Y	V	System Software, Hardware, and Integrations	<ul> <li>For Phase 1 Case Management, the number of outstanding project risks and issues may impact DLIR operations if not addressed prior to go-live (2022.04.IT01). With Phase 1 Case Management go-live six weeks away, the go/no-go criteria and transition checklist must be completed (2020.09.IT01).</li> <li>Phase 1 Content Management technical system issues continue to be addressed but the complete status of open issues (2022.02.IT01), the root cause of issues, and system operation roles, procedures, and metrics remain unclear (2019.09.IT02). DLIR turned the legacy Content Management system to read-only which should help to improve user adoption.</li> <li>Phase 2 development sprints continue to progress. The Phase 2 interface solution is still unclear (2019.07.IT02).</li> </ul>	1	5	0
6	6	6	Design	Phase 3 design is on hold for DLIR approval of requirements deliverable. Further clarification is needed of how BPR opportunities could be addressed through system design (2021.08.PM01) and integration with external systems (2019.07.IT02).	0	0	0
			Data Conversion	No significant updates since the prior report. Procurement of DLIR data conversion resources is in progress to perform conversion of paper files. Additional clarification of plans to convert paper files (2019.11.IT01) is still needed.	0	1	1



	FEB MAR APR	IV&V ASSESSMENT		FINDINGS				
TECHNOLOGY	FEB	MAR	APR	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
System Software, Hardware, and Integrations Design Data Conversion Quality Management and Testing Configuration Management Security	æ		R	Quality Management and Testing	40% of Phase 1 Case Management UAT test cases are completed which is significantly below the percentage completion targets. Issues related to permissions settings for DLIR testers are still contributing to delays. Under the re-baselined schedule, UAT was to be completed by the end of April but is now delayed to mid-May. DLIR has been trending at 13% test case completion per month. With up to 60% test cases to complete in less than 3 weeks, this is an aggressive target. DLIR also needs to complete their end-to-end testing during this time. DLIR and DataHouse must work together to prioritize and address UAT execution issues (2020.12.IT01). Additionally, test plans for Phase 1 regression testing as well as Phase 2 UAT need to be detailed out (2019.10.IT01). Phase 2 UAT was scheduled to begin in April 2022 but with the focus to complete Phase 1 testing, it is unclear when these activities will begin. However, DataHouse continues to progress with Phase 2 system testing. DLIR and DataHouse still do not have formal quality management plans (2019.07.IT05). Quality metrics are critical for evaluating and monitoring project activities for acceptance and go-live readiness.	0	3	0
	Ŷ			Configuration Management	DataHouse provided an updated Case Management configuration management document to include the Phase 2 Salesforce environments. Additional details regarding a comprehensive configuration management plan (2019.07.IT06) are needed.	0	1	0
	Y		Y	Security	A comprehensive security management plan (2019.07.IT07), formal security policies (2019.10.IT02), and an M&O plan (2019.09.IT02) are needed for both Phase 1 Content Management system operation and the upcoming Phase 1 Case Management go-live.	0	2	0



**TECHNOLOGY** 

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security

FINDING #: 2022.04.IT01 STATUS: OPEN



#### TITLE: CASE MANAGEMENT OPERATIONAL RISK

**Finding:** The number of outstanding project risks and issues may impact DLIR operations if not addressed prior to golive.

**Industry Standards and Best Practices:** Institute of Electrical and Electronics Engineers (IEEE) 15288-2015 Section 6.4.12 summarizes processes for transitioning the system into operational status.

**Analysis:** The eCMS Phase 1 Case Management system go-live is just over a month away on June 9, 2022. There is inherent risk involved in the launch of any new system. This risk is typically mitigated through careful planning, thorough quality, testing, and acceptance checks, and post go-live support teams and processes. DLIR and DataHouse continue to make progress to prepare for go-live, but there are still a number of areas that need additional clarification around plans, processes, roles and responsibilities, and metrics. With so many details left to figure out or resolve during production, this may have a significant impact on the continuity and efficiency of DLIR operations. The Phase 1 Content Management system was two months into production before the critical blockers were addressed. During this time, documents had to be scanned into both the legacy and the new system to avoid any major impact on the operations of the limited stakeholder group. There is significantly increased complexity in the Case Management system compared to Content Management and a far greater number of internal and external stakeholders. This raises the inherent risk associated with this next go-live and the need to address previously identified deficiencies. The following project risks and issues (refer to Appendix D: Prior Findings Log) collectively may impact the overall success of the Phase 1 Case Management system launch and potentially the DLIR operations:

- Testing and Quality Issues (2020.12.IT01, 2019.10.IT01, and 2019.07.IT05) On-going UAT execution issues continue to limit progress to complete UAT. DLIR performance of end-to-end testing and plans for regression testing are also still pending. With limited time remaining to complete testing and without defined quality metrics, DLIR must ensure that adequate testing is performed to minimize issues and defects post go-live.
- Unclear Go/No-Go Criteria (2020.09.IT01) Criteria for the Phase 1 Case Management go-live and acceptance still
  need to be established to ensure that the project does not move forward without completing all the necessary
  preparation activities for a successful go-live.
- Unclear Business Processes (2020.12.PM01) Additional clarification of business process changes around the new system is needed to ensure that DCD employees know how to perform their work post go-live to prevent significant impact on operation efficiencies.
- Unclear Data Conversion Plans (2019.11.IT01) The plan for converting existing paper files is still pending. The new QR coded forms require documents to be scanned with the new Case Management system. With some files scanned and some in paper form, this may lead to confusion, work arounds, and slower user adoption.



#### **TECHNOLOGY**

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security



### TITLE: CASE MANAGEMENT OPERATIONAL RISK (continued)

- Lack of Stakeholder Communications Plan (2019.07.PM07) Communications with external stakeholders have been minimal. Additional communications are needed to prepare stakeholders for substantial changes in key workers compensation forms and those using the new electronic form submission process to prevent significant delays in processing critical employer filings.
- *Missing OCM Activities* (2019.07.PM08) Specific metrics and surveys for collecting and monitoring change resistance and user adoption still need to be finalized. Identifying OCM issues early will help in timely formulating plans to address the issues (e.g., additional training, reinforcement mechanisms) and increase user adoption.
- Lack of Training Plan (2022.04.PM01) Details of the training dates, format, attendees, trainers, content, etc. are still pending. An effective training program is critical for preparing users for transitioning to the new system.
- Other General Findings (2019.09.PM02, 2019.09.IT02, 2019.07.PM02, 2019.07.PM06, 2019.07.PM09, 2019.07.PM10, 2019.07.PM14, and 2019.07.IT07) Other outstanding risks and issues may also impact the ability of the project team to timely and adequately address issues that arise post go-live.

In addition to the specific recommendations made as a part of this finding, the IV&V recommendations made at the findings referenced above will also help to address this issue.

#### **Recommendations**: 2022.04.IT01.R1 – Perform operations risk and impact assessment.

- Identify areas of operations at greatest risk and assess impact (e.g., operational workloads, compliance, constituents/claimants) of potential technical issues or system down-time.
- Consider business processes with high volumes, statutory requirements, or greater external stakeholder involvement.

2022.04.IT01.R2 – Increase post go-live support and resources.

- Assign dedicated DLIR and DataHouse resources for on-site support and troubleshooting.
- Create a support plan specific for external stakeholders.
- Clarify issue/incident escalation processes and tools.
- Consider scheduling standing check-ins with internal and external users for regular Q&A and issue resolution.

2022.04.IT01.R3 – Develop a formalized post go-live plan.

- Document functionality, remaining defects, and any open deliverables to be completed post go-live.
- Provide detailed dates and resources to address each post go-live delivery.



### Appendix A: IV&V Criticality and Severity Ratings

#### **IV&V CRITICALITY AND SEVERITY RATINGS**

Criticality and severity ratings provide insight on where significant deficiencies are observed and immediate remediation or risk mitigation is required. Criticality ratings are assigned to the overall project as well as each IV&V Assessment Area and IV&V Assessment Category. Severity ratings are assigned to each risk or issue identified.

#### **Criticality Rating**

TERMS

**RISK** An event that has not happened yet.

ISSUE An event that is already occurring or has already happened. The criticality ratings are assessed based on consideration of the severity ratings of each related risk and issue within the respective IV&V Assessment Area and IV&V Assessment Category, the overall impact of the related findings to the success of the project, and the urgency of and length of time to implement remediation or risk mitigation strategies. Arrows indicate trends in the project assessment from the prior report and take into consideration areas of increasing risk and approaching timeline. Up arrows indicate adequate improvements or progress made. Down arrows indicate a decline, inadequate progress, or incomplete resolution of previously identified findings. No arrow indicates there was neither improving nor declining progress from the prior report.

RRRYY<td

A **RED**, high criticality rating is assigned when significant severe deficiencies were observed and immediate remediation or risk mitigation is required.

A **YELLOW**, medium criticality rating is assigned when deficiencies were observed that merit attention. Remediation or risk mitigation should be performed in a timely manner.

A **GREEN**, low criticality rating is assigned when the activity is on track and minimal deficiencies were observed. Some oversight may be needed to ensure the risk stays low and the activity remains on track.

A GRAY rating is assigned when the category being assessed has incomplete information available for a conclusive observation and recommendation or is not applicable at the time of the IV&V review.

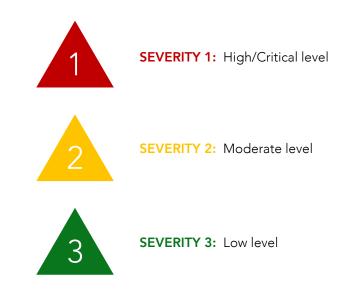


#### **Severity Rating**

Once risks are identified and characterized, Accuity will examine project conditions to determine the probability of the risk being identified and the impact to the project, if the risk is realized. We know that a risk is in the future, so we must provide the probability and impact to determine if the risk has a Risk Severity, such as Severity 1 (High), Severity 2 (Moderate), or Severity 3 (Low).

While a risk is an event that has not happened yet, an issue is something that is already occurring or has already happened. Accuity will examine project conditions and business impact to determine if the issue has an Issue Severity, such as Severity 1 (High/Critical Impact/System Down), Severity 2 (Moderate/Significant Impact), or Severity 3 (Low/Normal/Minor Impact/Informational).

Findings that are positive or preliminary concerns are not assigned a severity rating.



#### TERMS

POSITIVE

Celebrates high performance or project successes.

#### PRELIMINARY CONCERN

Potential risk requiring further analysis.



## Appendix B: Industry Standards and Best Practices

STANDARD	DESCRIPTION
ADA	Americans with Disabilities Act
ADKAR®	Prosci ADKAR: Awareness, Desire, Knowledge, Ability, and Reinforcement
BABOK® v3	Business Analyst Body of Knowledge
DAMA-DMBOK® v2	DAMA International's Guide to the Data Management Body of Knowledge
HIPAA	Health Insurance Portability and Accountability Act of 1996
MARS-E v2.0	CMS Minimum Acceptable Risk Standards for Exchanges – Exchange Reference Architecture Supplement
MITA v3.0	Medicaid Information Technology Architecture
PMBOK® v7	Project Management Institute (PMI) Project Management Body of Knowledge
SWEBOK v3	Guide to the Software Engineering Body of Knowledge
TOGAF® v9.2	The Open Group Architecture Framework Standard
COBIT® 2019 Framework	Control Objectives for Information and Related Technologies Framework
IEEE 828-2012	Institute of Electrical and Electronics Engineers (IEEE) Standard for Configuration Management in Systems and Software Engineering
IEEE 1062-2015	IEEE Recommended Practice for Software Acquisition
IEEE 1012-2016	IEEE Standard for System, Software, and Hardware Verification and Validation
IEEE 730-2014	IEEE Standard for Software Quality Assurance Processes
ISO 9001:2015	International Organization for Standardization (ISO) Quality Management Systems – Requirements
ISO/IEC 25010:2011	ISO/International Electrotechnical Commission (IEC) Systems and Software Engineering – Systems and Software Quality Requirements and Evaluation (SQuaRE) – System and Software Quality Models
ISO/IEC 16085:2006	ISO/IEC Systems and Software Engineering – Life Cycle Processes – Risk Management



STANDARD	DESCRIPTION
IEEE 16326-2019	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Project Management
IEEE 29148-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Requirements Engineering
IEEE 15288-2015	ISO/IEC/IEEE International Standard – Systems and Software Engineering – System Life Cycle Processes
IEEE 12207-2017	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Software Life Cycle Processes
IEEE 24748-1-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Management – Part 1: Guidelines for Life Cycle Management
IEEE 24748-2-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Management – Part 2: Guidelines for the Application of ISO/IEC/IEEE 15288 (System Life Cycle Processes)
IEEE 24748-3-2012	IEEE Guide: Adoption of ISO/IEC TR 24748-3:2011, Systems and Software Engineering – Life Cycle Management – Part 3: Guide to the Application of ISO/IEC 12207 (Software Life Cycle Processes)
IEEE 14764-2006	ISO/IEC/IEEE International Standard for Software Engineering – Software Life Cycle Processes – Maintenance
IEEE 15289-2019	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Content of Life Cycle Information Items (Documentation)
IEEE 24765-2017	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Vocabulary
IEEE 26511-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Requirements for Managers of Information for Users of Systems, Software, and Services
IEEE 23026-2015	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Engineering and Management of Websites for Systems, Software, and Services Information
IEEE 42010-2011	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Architecture Description
IEEE 29119-1-2013	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 1: Concepts and Definitions
IEEE 29119-2-2013	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 2: Test Processes
IEEE 29119-3-2013	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 3: Test Documentation
IEEE 29119-4-2015	ISO/IEC/IEEE International Standard – Software and Systems Engineering – Software Testing – Part 4: Test Techniques



STANDARD	DESCRIPTION
IEEE 1484.13.1-2012	IEEE Standard for Learning Technology – Conceptual Model for Resource Aggregation for Learning, Education, and Training
ISO/IEC TR 20000- 11:2015	ISO/IEC Information Technology – Service Management – Part 11: Guidance on the Relationship Between ISO/IEC 20000-1:2011 and Service Management Frameworks: ITIL®
ISO/IEC 27002:2013	Information Technology – Security Techniques – Code of Practice for Information Security Controls
SAML v2.0	Security Assertion Markup Language v2.0
SoaML v1.0.1	Service Oriented Architecture Modeling Language
CMMI-DEV v1.3	Capability Maturity Model Integration for Development
FIPS 199	Federal Information Processing Standard (FIPS) Publication 199, Standards for Security Categorization of Federal Information and Information Systems
FIPS 200	FIPS Publication 200, Minimum Security Requirements for Federal Information and Information Systems
NIST 800-53 Rev 5	National Institute of Standards and Technology (NIST) Security and Privacy Controls for Federal Information Systems and Organizations
NIST Cybersecurity Framework v1.1	NIST Framework for Improving Critical Infrastructure Cybersecurity
LSS	Lean Six Sigma



## Appendix C: Interviews, Meetings, and Documents

### **INTERVIEWS**

DATE	INTERVIEWEE
	None

#### MEETINGS

DATE	MEETING DESCRIPTION
03/29/22	PM Status Meeting
03/29/22	Risk Meeting
03/29/22	IV&V DCD Update Meeting
03/29/22	Case Management UAT Standup
03/29/22	eCMS Testing Roundtable
03/30/22	Phase 2: Sprint 6.2 Review
03/30/22	IV&V DCD Update Meeting
03/31/22	PM Status Meeting
03/31/22	Case Management UAT Standup
03/31/22	eCMS Testing Roundtable
04/04/22	IV&V DCD Update Meeting
04/04/22	OCM Touchpoint Meeting
04/05/22	PM Status Meeting
04/05/22	Case Management UAT Standup
04/05/22	eCMS Testing Roundtable



#### **MEETINGS (CONTINUED)**

DATE	MEETING DESCRIPTION
04/06/22	IV&V DCD Update Meeting
04/07/22	IV&V Report Draft Walkthrough
04/07/22	PM Status Meeting
04/07/22	Phase 2: Sprint 7.2 and 7.3 Review
04/08/22	Monthly eCMS Steering Committee Meeting
04/11/22	IV&V DCD Update Meeting
04/11/22	Risk Meeting
04/11/22	OCM Touchpoint Meeting
04/12/22	PM Status Meeting
04/12/22	Case Management UAT Standup
04/12/22	eCMS Testing Roundtable
04/13/22	Case Management Requirements for Phase 3
04/13/22	IV&V DCD Update Meeting
04/14/22	NCCI Interface
04/14/22	Case Management UAT Standup
04/14/22	eCMS Testing Roundtable
04/19/22	PM Status Meeting
04/19/22	Case Management UAT Standup
04/19/22	eCMS Testing Roundtable
04/20/22	DLIR Sponsor Check-in



#### **MEETINGS (CONTINUED)**

DATE	MEETING DESCRIPTION
04/21/22	Case Management UAT Standup
04/21/22	eCMS Testing Roundtable
04/26/22	PM Status Meeting
04/26/22	Case Management UAT Standup
04/26/22	eCMS Testing Roundtable
04/26/22	OCM Touchpoint Meeting

#### DOCUMENTS

ТҮРЕ	DOCUMENT
Request for Proposal	State of Hawaii DLIR DCD RFP No. RFP-17-002-DCD (Release Date 04/12/18)
DataHouse Proposal	DataHouse eCMS Best and Final Offer (BAFO) Proposal (Dated 06/20/18)
Request for Proposal	State of Hawaii DLIR DCD IV&V RFP No. RFP-18-001-DCD (Release Date 12/28/18)
Contract	Contract between State of Hawaii and DataHouse Consulting Inc. (Effective 08/27/18)
Configuration	Salesforce Configuration Management (Updated 04/26/22)
Costs	DCD eCMS Modernization Project – Services (04/26/22)
Design	Design of Form TDI-46 Denial of Claim for Disability Benefits (Revised 04/19/22)
Development	Case Management Phase 2 Build Burndown (03/31/22, 04/14/22)
Development	DataHouse Development Team Status Meeting Minutes (03/23/22, 03/30/22, 04/06/22, 04/13/22, and 04/20/22)
Development	Phase 2 Epic 7 Sprint 7.2 & 7.3 User Stories (04/07/22)
Development	Phase 2 Epic 6 Sprint 6.2 User Stories (03/30/22)



#### DOCUMENTS (CONTINUED)

TYPE	DOCUMENT
Forms	Design of HC-15 Health Care Contractor Report (Revised 04/11/22)
Governance	eCMS ESC Meeting Agenda (04/08/22)
Governance	eCMS ESC Meeting Minutes (02/11/22)
Governance	eCMS ESC Meeting DataHouse Project Dashboard (04/08/22)
Governance	ESC eCMS Modernization Project Plan Update (04/08/22)
Hardware	DCD Computer Roll-out POA Agenda & Minutes (03/30/22)
Hardware	DCD IT Equipment Tracker (04/14/22)
OCM	OCM Project Overview (04/26/22)
OCM	OCM Planning Documents (04/11/22) (4 files)
Procurement	Salesforce DCD Accounts (03/24/22)
Project Management	DLIR Lessons Learned Log (04/18/22)
Quality	Metrics for Content Management Quality Tracking Log (04/19/22)
Quality	Content Management Quality Tracking Log (04/19/22)
Requirements	Case Management Requirement Version 1.10 (Updated 04/13/22)
Requirements	Requirements Traceability Matrix (RTM) (04/15/22)
Risk and Issues	RAID (Risk Action Issue Decision) Log (Updated 04/18/22 by DataHouse Project Manager)
Risk and Issues	RAID (Risk Action Issue Decision) Log (Dated 04/11/22, updated by DCD Risk Manager)
Schedule	eCMS Microsoft Project Plan as of 04/25/22 (MPP file)
Schedule	Filtered Project Plans (Late Tasks, Upcoming 4 weeks) (03/29/22, 04/05/22, 04/11/22, and 04/19/22)
Testing	Case Management Phase 1B Test Cases (04/26/22)



#### DOCUMENTS (CONTINUED)

ТҮРЕ	DOCUMENT
Testing	Case Management UAT Metrics (04/25/22)
Testing	Phase 2 Case Management Test Cases (04/25/22)
Testing	Phase 3 Case Management Test Cases (04/21/22)
Testing	Phase 1 Case Management User Feedback (04/18/22)
Testing	Metrics for Phase 1 Case Management User Feedback (04/18/22)
Training	DCD Case Management Training Guide (04/18/22)
Transition	Support Transition Workbook Example (04/04/22)
Transition	DCD eCMS Operational Support Considerations (04/01/22)





## Appendix D: Prior Findings Log



#### Appendix D: Prior Findings Log

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ISESSMENT TEGORY FINDING ID TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FNDING STATUS UPDATE CLOSURE REASON
stem Software, legrations	Moderate	Moderate	Content Management system and rollout issues resulting in low user adoption.	The 6CMS Phase 1 Content Management system went live on January 26, 2022 and was tolled out to a small number of users in one stakeholder group. In the month since go-live, users have encountered a number of technical issues with the system including performance, reliability, functionality, and data. The Dashbouse Content Management development team is working closely with DLR to receive issues and released several patches and updates. Despite these efforts, user adoption remains low with users reverings to the legacy system to perform their work. The following is a summary of transition risks or issues: The process for reporting user issues is not consistent with some issues logged in the quality log. DLR resmo channel, or through email. This makes it difficult to tack metrics, status, priority, or resolution of production issues.	2022.02.IT01.R1	Improve production issue/defect processes.	Reases issue/delect reporting processes and tools to improve consistency and environment centrion. "Collect and use metrics to help in identifying production issue trends, analyzing system vs. user issues, and investigating root causes.	Open	03/23/22: Phase 1 Content Management technical system issues confinue to be addressed but the complete stand of issue resolution, note cause of those issues, status and metrics for user adoption, and plans to address transition issues remain undera. TUR plans to restrict cases to the legory system after the last critical technical issue is addressed. 04/26/22: Phase 1 Content Management technical system to be addressed. DUR turned the legory Content Management system to read-only which should help to improve user adoption. Accuity will continue to monitor the progress of Content Management rollout and adoption.
				While some of the low user adoption is due to the technical issues with the system, its is undera how much of this is due to user COM issues (e.g., user resistance or training needs). User adoption blockers need to be identified. It is not clear what the root cause is for the number of technical issues and user issues encountered in production. Feedback was collected from user in a lessons learned session to identify areas of improvement but further analysis to determine root cause and improvement tplans to specifically address these root causes are still needed. Although DLR and DataHouse are working hard to address reported issues, it is unclear what the comprehensive plan or timeline is to address root technical and user issues to successfully transition all users onto the new system.	2022.02.IT01.R2	Develop a comprehensive and prioritized plan to address transition issues.	-BUR and DataHouse should work together to evaluate and prioritize the transition issues with the greatest impact on user adoption and develop a clear part and realistic timelians: of technical issues (e.g., inflective or institucional statest technical issues (e.g., inflective or institucional statest technical issues (e.g., inflective or institucional statest technical issues (e.g., management) and use issues (e.g., indequate training, change reinforcement mechanisms, or BPR discussions).		
inres Process 2021.08.PM01 Risk	Moderate	Moderate	Inadequate attention to and formeroi for BPR ray regress expendional performance gains achieved.	In the initial neurod of Phase 2 design sessions, preliminary design mock- opy were presented and dial not same to completely address the requests and current operational pain points raised by DLR SMSs during the requirement generational pain points raised by DLR SMSs during the requirement generational pain points raised by DLR SMSs during the requirement generational pain points raised by DLR SMSs during the requirement generational performance, there were missed opportunities to achieve ever greater improvements through system automation, integration, and capabilities. Design sessions with SMEs were more focused around technical design aspect which the SMEs to were more focused around technical design aspect which the SMS sometimes struggled to understand the business context of the design or how the system could help to solve operational challenges. Business process improvement is a key deliverable identified in the RPP and in DataHous's contract but there are well as the operational performance gains to greened in following design sections are well as during to prevent additional effort to correct later. DUR plans to mere with SMEs prior to meeting to better proper them to actively and effectively participate in project activities. DataHouse's plans to provide more critically rating for Design. In addition to the specific recommendation made as a part of this linding, the N&W recommendation made at finding 2020.124MO will also help to address time suce.	2021.08.PM01.R1	identify and analyze BPR opportunities.	«Consider areas with greatest impact or value due to transaction valume, evently of pan points, projectiv within DLR voerstoal goals (e.g., WC-3 ferm processing and reconsiliation, insurance plans form processing, employer compliance monitoring, and Special Compensation Fund (SCP recordecepting). "Explore possible Resolutions that include buintess process changes and/or system functionality." "Horrease discussions between DLR and DataHouse to better connect business processes to system capabilities. "Ensure MSL understand the importance of BPR and when and how BPR will be discussed throughout the project.	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21 and 12/29/21: No updates to report. 01/25/22: Some BPR opportunities continue to be discussed in Phase 2 development sprint sessions and Phase 3 requirements gathering. Identification of thos BPR opportunities with the greatest impact or value is still needed. 02/24/22, 03/23/22, and 04/26/22: No updates to report. Accuity will continue to assess BPR and design processes.
vernance 2021.05.PG01 Risk	Moderate	Moderate	Insufficient support and guidance from project governance may limit the project's ability covercome current project challenges.	Since December 2020, DLIR and DataHouse have been working to address and analyze various Content Management issues (effer to finding 2021.03.1701). In March 2021, DataHouse presented three options to the ESC for the Content Management solution. Previous plans and timelines to make a decision regarding the Content Management solution were postponed to allow more time for additional analysis. DLIR and DataHouse recently agreed on a new plan and timeline of tasks to reach a decision regarding the Content Management solution by July 2021. As the Content Management in glinematication delays are stalling the Phase 1 Case Management and Phase 2 activities and significantly that the poject test and ricks to plans to address this and other high and the the poject test and ricks to plans to address this and other high regulance and more active involvement from the ESC and project sponsors are needed to help remove barriers and drive progress.	2021.05.PG01.R1	increase project governance involvement.	Discuss high-impact barrenzblockers and mitigation plans for ontical issues with ESC. "Evaluate how various ESC members can be leveraged to remove barriers and execute mitigation plans. Consider adding additional ESC meetings until critical issues are resolved. Consider establishing more frequent touchpoints with DLR and Deathfours project sponson to more closely monitor and drive progress of executing mitigation plans for critical issues.	Open	Refer to prior IV&V Monthly Report for status updates before November           2021.           11/2/V21: The ESC approved to re-baseline the Phase 1 Content           Management interline again. Additional versight is needed to ensure revised timelines are achieved.           12/2/V21: The eCMS Project is facing a number of significant challenges that could prevent successful completion of all three phases in 2022 as planed. The ESC, ETS, and senior DataHouse and DUR leaders aloud planed. The ESC, ETS, and senior DataHouse and DUR leaders aloud planed. The ESC, ETS, and senior DataHouse and DUR leaders aloud planed. The ESC, ETS, and senior DataHouse and DUR leaders aloud planed. The ESC, ETS, and senior DataHouse and DUR leaders aloud the senior senior bay drive project robust senior senior se

ASSESSMENT					CUPPENT -								CLOSED -	
CATEGORY	FINDING	D TYP	E S	EVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	DATE	CLOSURE REASON
Busines Process Reengineering	2020.12.8	PM01 Risk		Acderate	Moderate		Ongoing Phase 1 Content Management UAT is raising questions regarding how the system will be used their interim Content Management go-lives as well as the integrated Case Management go-lives the most critical business process in question is the use of the new quick interim phase. Other examples of business processes during the interim phase. Other examples of business processes that need to be cliented module millipper conversion scriming, subsequent separation ampripring of lives phase. The content of the set of the interim phase. Other examples of business processes that need to be cliented module millipper conversion scriming, subsequent separation ampripring of lives phase content of the set of the set of the fields associated to child the set of the set of the set of the second documents. Clientication of business processes is critical to alo important topowde finely communications and necessary training to impacted stakeholders prior to go-live.	2020.1.2.PMO1.R1	Clarify redesigned business processes.	<ul> <li>Identify business processes that need to change with the moderized system.</li> <li>Placuss and evaluate options for redesigning identified business processes condicing impacts on askeholders.</li> <li>Ensure that communication and training plans are updated for major changes in business process.</li> <li>Consider business process flows for the interim Content Consider business process flows for the interim Content Consider creating immational system/chas these to be plan that and external stakeholders understand and prepare for business process changes.</li> </ul>	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21: DUR continues to discuss and clarify some of the Phase 1 Content Management business processes questions that are arising during UAT. 12/29/21: DUR is making progress on drafting additional process documentation related to scenimic, Moneror, a couple key business documentation related to content, Management Excellence to be determined due to the upcoming go-live. 01/25/22: Busines processes continue to be discussed and refined for the limited DUR takeholder groups in the first rollout of Phase 1 Content Management. Content Management business processes for other stakeholder groups as well as the significantly more complex Phase 1 Case Management business processes around the new Case Management system need to be clarified in preparation for the upcoming go-live. 04/24/22: DUR takeholder groups to be difficult of Phase 1 Case Management system need to be clarified in preparation for the upcoming go-live. 04/24/22: DUR takeholder groups to be diffied for both the Case Management and the complimentary Content Management go-live systems so that users DCD employee in ow how to perform their work post go-live.	4	
Quality	2020 42 -	1701		Eab	Link	Outstanding project data and have the	DLID kasaa HAT of the Disce 1 Castron Management of the	2020 12 1701 04	Develop a prioritant alta ta	<ul> <li>DUR and Datableurs should under sorth sets with the set of the s</li></ul>	Oner			
Quality Quality Testing			9 D D D D D D D D D D D D D D D D D D D	igh	High	Cutstanding project risks are impairing the execution OUX which may impact quality and project success.	DUB began LAT of the Phase I Contern Management solution and is scheduled to complete testing in the first week of January 2021. DUR was not able to sufficiently prepare test cases prior to UAT lickoff, testing is generally not formally documented, and adequate testing resources were not secured or trained. DUR and DataHouse did implement a log for tracking UAT Redeaked and states as an ell ad ably meetings to discuss and review the latest log entries submitted by DUR testing. The strength Carl Redeaked and states as an ell ad ably meetings to discuss and review the latest log entries submitted by DUR strength of the strength of the strength of the submitted by DUR testing and the strength of the strength of the submitted by DUR strength of the strength of the strength of the strength of the strength of the project is able to move forward. The following project risks and issues that do the strength of the strength of the strength of the strength and the strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength of the strength of the strength of the strength of the strength of the strength of the strength strength of the strength of the strength of the strength of the strength of the strength of the strength strength of the strength of the strength of the strength strength strength of the strength of the strength str	2020. 12.1101. R1 2020. 12.1101. R2	Develop a prioritized plan to address UAT execution issues.	DUE and DataHouse though work together to evaluate and pointize the ULAT exection issues with the gravest impact on the Coment Management go-live data. Develop a clear plan and relatic timeline to address ULAT execution issues considering availability of DUR project resources. PotaHouse should provide additional Cluffication and demonstration of the functionality to be provided by the stand-adone Coment Management Journo and the integrated Case Management Joulion. This will help DLR sues understand limitations that are only temporary and the additional indicionality provided in later phase. +For sues not fixed by DataHouse, DLR should ensure stateholders +Outs about asagn relationships to express and the phono- difference of the common state in the system acceptance and the phono-go diction. -Consider which issues/defects can be addressed after go-live by agreed-upon resolution dates.	Open	Nefer to prior VR2V Monthly Report for status updates before November 2021. 11.29/21: The Phase 1 Content Management timeline was deferred due to technical issues. DataHouse and DLR are working to resolve the top three sues by early Deember 2021 prior to the rescheddue training and UAT. Improvements in defect and issue resolution and prioritization are critical to prevent further delays. 12.29/21: Performance metrics for both Phase 1 Content Management and Case Management UAT indicate lower than expected progress to complete planed test cases. DLR does not have sufficient testing resources consistently performing Content Management or Case Management and Case Management UAT indicate lowing to addressing to addressing to the planed test cases. DLR does not have sufficient testing resources is consistently performing Content Management or Case Management testing and plans to oriboard more testers in January 2022 to increase the pace of testing. DLR and DataHouse are working to address content Management is use and defects but quality metrics indicate a high ratio of reported issues to completed test cases. 10.25/222. DLR and DataHouse improved testing to testing the address remaining issue/defects but quality metrics indicate a high ratio of reported issues to completed test cases. 10.25/222. DLR and DataHouse improved 2022. As for Phase 1 Cases Management UAT, performance metrics show only 1% of test cases have been completed to case and complexing on metry coses are the too biggest execution base. DLR is main given more ensignment taming, and resourcing levels are still below the required number of testers 2022/2422: The continuing work from addressing issues: identified after Phase 1 Content Management UAT. DLR and DataHouse networks will be resource ontrained and distiss users. The servers will be testing testing und addressing of the scase completed while the projected completion by the dot of the users is a start data thangement testing indicate an 21.15% of test cases complete		

ASSESSMENT			ORIGINAL	CURRENT						FINDING		CLOSED	
CATEOOR System Software, and Integrations	PINDING ID 2020.09.001	TYPE Issue	<u>sevean</u> ry High	<u>SLOVENTY</u> High	FIND NG Unclear goin-go criteria may impact the orderly completion of all tasks required for system go-live.	ARAKYOS ARAKYOS The criteria for the go/no-go decision are not completely and clearly defined and agreed upon. The decision to go-live involves many areas at bask of the project including stating, gualty management, security, data comercian, training, communications, and deliverable review, as well as the operational readines of users. Xinous project janks often include or establish series (intrains, howers; some of these ratio) 02 (2710); and 2019 (10170); the qualty management plan (2019 QU 1003), and security management plan (2019 QU 1003). And for deliverables (2019 QU PMQ3) have not been established. The Content Management go/the go-live on November S2, 2020 and Case Management on L4, 2021. With the Content Management go-live data quickly approaching, it is important to establish clear criteria for the golive go decision. DUR is planning to draft agoin-go checklist to summarize all of the criteria and tasks. Distributer and the provide a curver gain to provide additional information about pies and post go-live tasks.	IECOMIERDATION 0 2020.09.1T01.81	RECOMMENDATION Etablish complete and clear go/m go criteria.	SuppleMetrixL RECOMMENDATION • Stability down go ontheir in advance of the go-live decision to allow for sufficient time for tasks to be completed and criteria satisfied. • Churae all partial sagre upon go/no-go criteria including on the support of the support of the support of the support of the support of the support of the support criteria and are approved by DLR, end user taining is completed, and Consider grant goins cound/on on theckgrain (e.g., 130, 60, 90 days for specific go/no-go criteria or tasks to be reviewed or completed by:	STATUS Open	PADDRGSTATUS UPDATE PADDRGSTATUS UPDATE Refer to prior VRW Monthly Report for status updates before November 2021. 11/29/21: With Content Management go-live approaching in less than three months, it is critical that goin-go oriteria are finalised. Clear goin-go and acceptone oriteria are citical for ensuing quality and overall project pattern into production. 11/29/21: Wath Content Management go-live is less than a month away and Phase 1 Case Management go-live is less than a month away and Phase 1 Case Management go-live is them conths away. Clear go/no-go citeria and milliconse need to be established 01/25/22: DUR and DataHouse established a consolidated go/no-go citeria and milliconse need to be established DataHouse agreed that post go-live completion. DUR and DataHouse agreed that post go-live complexity of the system and higher number of internal and expectivity of the system and higher number of internal and expectivity of the system and higher number of internal and expending. It is citical for the go/no-go checklist and deployment activities to be finaled. 03/23/22: No updates to perot. 03/23/22: No updates to perot. 03/23/22: No hase 1 Case Management go-live is weeks away, the go/no-go citeria and transition checklist must be completed. Acculty will evaluate the checklists and oriteria as finalized.		
Project Organization and Management	2020.07 PMoT		High	High	United progress to address previously identified deficiencies for foundational project processes may result in reoccurring issues and delays.	NeX identified a number of risks and issues since the NAV Initial Report in July 2019 related to foundational project processes. Some of the more critical area requiring improvement include cost management, schedule management, resource management, requirements management, damage management, requirements induced the set of the project execution and contribute gravity to overall project performance and project taking as these processes impact many aspects of the project execution and schedule deficiencies contributed to project delays experiment of missa 1. For example, a significant annuori of time was part clarifying and new Gase Management uses much does the project taking and resources needed as well as ineffective processes to document and analyze the change and identify and mitigate risks associated to the AWS build. Incremental progress was made for many findings but a majority are still organe. Progress was initide by availability of project resources and competing organizational and project priomites. With the kick-off of historian is allowed in the discussion of history approximates, reflect on lessons learned on the project to date and adjust to change significant in the discussion of history part processes, reflect on lessons learned on the project to date and adjust to change significant in the discussion of history party processes, reflect on lessons learned in the project to date and adjust to change significant in the discussion of history party processes, reflect on lessons learned on the project to date and adjust to change significant in the discussion of history party develops circumstances related to the COVID-19 pandemic (refer to finding 2220.03.7M01).	2020.07.PM01.R2	Perform a project assessment. Formulate a plan for addressing identified deficiencies.	Consider performing retrospective for project processes. • Consider conducting performance assessments for the project team, individual team methers, and governance. • Document leasons learned and necessary actions or follow-up to prevent reoccurrence of similar issues • Privotites based on relevance to upcoming schröhets; conduct focung requirements management and BP processes to coptimize effectiveness and efficiencies of upcoming requirements gathering sessions. • Develop high-level timeline and tasks for addressing deficiencies and begin tracking progress.	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/2/21: DUR and DataHouse continue to make incremental improvements burnomentum has slowed from the prior month. The CMS Project is already experiencing some challenges and setbacks under the re- baselined project schedule. Continuous improvements in project processes are critical to prevent reoccurring delays and improve project performance. 12/2/21: The DataHouse Project Sponsor plans to prepare a wellness plan to address identified deficiencies. 01/25/22: DataHouse assigned a resource to help with closing out pror IVAV findings. DUR plants to perform a retrospective derite the Phase 1 Content Management go-live to review lessons learned and make changes for future phase. Immediate adjustration of foundational project management processes must be made to prevent reoccurring delays and improve project performance, especially of phase 1 Content Management two conducted. Dwerforging and executing split to address the deficiencies dentified during the lesson learned discussion will better position the project to handle adjust to changes going into other phases. The wellness plan is still pending. 03/23/22: The DataHouse wellness plan to address project risks and issues a specied to be are cricical to project propriap project to be upcoming and nore complex Phase 1 Case Management go-live. 03/22/22: The DataHouse wellness plan to address project risks and issues a routed during the monthy ISCC: meeting, however, the presentation was high-level and (in caddress species) part was a lower. Previously dentified deficiencies and lessons learned darws the hanes 1 Content Management go-live sill need to be addressed. As any project status update during the monthy ISC: meeting, however, the presentation was high-level and (in address species) part was the set . Content Management go-live sill need to be addressed as aproject status update deficiencies and lessons leareed daressed. Accuirl		
Data Conversion	2019.11.1701	Issue	Moderate	Moderate	Unclear data conversion plans and processes may acluce DLR's ability to prepare for proper data conversion.	The Comern Management Convenion and Migration (sersion 1.2 pending DLR approval) and Case Management Convesion and Migration (version 1.1 pending DLIR approval) describe the data conversion process and roles and responsibilies between DataHouse and DLIR. DLIR is responsible for performing UAT on the data and ulimately signing of on the final reconciliation reports but has not yet formalized plans for these tasks. The data conversion plans do not buses, and testing. A subsch DLIR is not have insight to the DataHouse data conversion tesms' activities, volo, reports, risks and uses, and testing. A such, DLIR is unable to properly prepare for their part in the process and will not be able to adjust their data conversion test plans for maximum efficiency. Additionally, DLIR has not finalized plans for scanning current paper files to ensure necessary data quality to starivities and adding detailed tasks to the project schedule will also address this finding. Below are additional recommendations to further improve data conversion plans and activities.	2019.11.1T01.81 2019.11.1T01.82 2019.11.1T01.83	data conversion process.	Explain how data conversion tools perform validation and reconciliation tests and share available reports and logs. *Explain the process for how the data conversion plans will be updated for changes in system requirements. *Provide details on timing, number of data extractions and tests to be performed, and necessary remapping of data. *Estimate data conversion tests resource needs and ensure adequate resources are identified, atained, and exhecting of data. *Estimate data conversion tests resource needs and ensure adequate resources are identified, atained, and exhecting of data exclusions of the start address identified data convension folder to findings 2019 OP Mo2 and 201900.7M141. *Evaluate the impact on operations and project success of different data conversion scaring approach options. *Estimate scanning the requirements and begin to schedule or acquire necessary resources infer to findings 2019 OP.PM02 and 2019 OP.PM14).	Open	Refer to pror /N2V Monthly Report for status updates before November 2021. 11/29/21: DUR discussed when paper files should be scanned in but no decision or plan was made. 11/29/21: DUR is looking to procure additional data conversion resources and is assessing options for scope and timing of paper files to be scanned. 01/25/22: Procurement of DUR data conversion resources is in progress to be scanned. 01/25/22: Procurement of DUR data conversion resources is in progress to be scanned. 01/25/22: Procurement of DUR data conversion resources in in progress to be scanned. 01/25/22: Procurement of DUR data conversion resources in unclear how the timing of the stat 30 years. The estimated contract start date is early March 2022 and the target completion date is february 2023. It is unclear how the timing of the work will mange the use of the new system or business processes for the Phase 1 Content Management DCD rollout and the Phase 1 Cost on the Phase 1 Cost 20/24/22, 03/23/22, and 04/26/22: No updates to report. Accuity will continue to evaluate data conversion plans and processes.		

ASSESSMENT			ORIGINAL	CURRENT						FINDING		CLOSED	CLOSURE REASON
CATEGORY Coope and Requirements Management	FINDING ID 2019:10.PM01	Risk	<u>sevenrv</u> High	<u>SEVERTY</u> Moderate	FIGNIC The current RTM documentation and tool may hinder traceability, which may impact the ability to ensure the overall eCMS solution fulfills all requirements and provider control and expectations for design, development, and testing.	developed separate from the DataHouse contract requirements and more detailed requirements were developed by the Content Management and Case Management development teams to use for	2019-10 PMOT R1	ECOMMENDATION	SUM454/SUB47A1 RECOMMENDATION Trace contact requirements to requirements subsets used by the development teams to ensure completeness. Consider identifying high-level requirements that duplicate more detailed requirements to reduce redundancy in traceability to design Affances requirements to the project objectives success metrics (refer to Finding 2019 07.PEGS) to ensure each approved requirement adds business value -Add acceptance criteria to the RTM to ensure stakeholder satisfaction -Consider use of a requirements management tool with greater functionality.	Open	ENDINCESTATUSENDEXTE Effect to prin VEW Monthly Report for status updates before November 2021. 10.1024 mol 12.202021: DUB to creating UAT text cases from original constraints are any to mitigate ministiga equivements. The text cases reference the source of the requirement which helps to provide some additional traceability. 01.25.722 and 02.24.422: No updates to report. 01.23.2222: Accuip decreased the serveity raining from Level 1 (High) to Level 2 (Moderala) a DLI improved process to trace requirements to their and acceptance. IV&V traced a sample of requirements to their repective test cases to ensure completeness of DLI's approach which resulted in one exception due to a misclassification of the requirements and related test CLI plan to review the assignment of requirements and related test cases to ensure that they are properly assigned to the correct phase. 04.26/222: No updates to report. Accuily will continue to evaluate the effectiveness of requirements traceability and DLI's testing mitigation approach.	DATE	
Duality Management and exting	2019.10.101	Issue	≠igh	High	Lack of approved test plans may impact the execution and quality of test activities and documentation.	According to the Project Management Plan (version 1.3), the DataHouse tar plan was scheduled for completion on September 3, 2019. Due to the metel to focus resources on the AVES setup and network connections. 2019. Our Bylamed to complete the URL test plan (or Acheber 2019 Due to resource constraints and the need to work on other DLR T initiatives, the DLH test plan expected completion date was revised to November 2019 and the plan may be combined with the DataHouse test plan. As DataHouse test activities are scheduled to begin in November 2019. DLR also needs to adathouse 's test strategy and test needs. DLR also needs to adathouse 'test strategy and well as identify, train, and schedule DLIR test fresources.	2019-10.1701.81	Finalize the test plan.	Helently applicable test standards and requirements. +Delineater roles and responsibilities between DataHouse and DUR life to finding 2019/07-M000, Herentling, thirds, and scheduled grefer to findings 2019/09-PM02 and 2019/07-PM14).	Open	Placeballing and LLR's testing mitoglation approach. Refer to prior IV&V Monthly Report for status updates before November 2021. 11:07:07:1: Place 1 Content Management LAT was deferred due to technical series and in one rescheduled to begin in December 2021. Due conflicts for training but is expected to begin in December 2021. Due confliction of training but is expected to begin in December 2021. Due conflicts for training but is expected to begin in December 2021. Due confliction of training but is expected to begin in December 2021. Due confliction of training but is expected to begin in December 2021. Due confliction of training but is expected to begin in December 2021. Due confliction of training but is expected to begin in December 2021. Due consistently performing testing and plans to onboard more testers in January 2022 to increase the pace of testing. Adjustments to DuE 18 stelling approach and processes are needed including assignment of test cases, preparation of testing performance testing. In Due testing approach and processes are needed including assignment of testing performance, and management to additionate of testing performance metrics abov only 1% of test cases have been completed to date and completion in the edu of the stat 2 case Management UAT indexiste. The testing in Geromance metrics abov only 1% of test cases have been completed to date and completion in the edu by the assessed and adjusted immediately. 20:224/22: DUR significantly increased testing resources and is making profing to attrapplificantly increased testing test and by wets. However, the profing and palans to conduct performance metrics and performance metrics for Planse 1 case Management UAT needs to be reassessed and adjusted inmediately. 20:224/22: DUR significantly increased testing tests by wets. However, the profing and the performance metrics case palanel metrics. 20:224/22: DUR and performance metrics on the provide additional training and support for UAT tests. DUR needs to be datale		
lecurity	2019.10.IT02	Risk	High	High		DLIR currently does not have formal security policies to determine decurity requirements for the CAS Project and does not have security procedures in place to adequately protect eCMS Project data. The lack of policies primarily impacts the completion of the AVS setup and the Content Management solution component. Security requirements for the cloud environment turat be determined and control implemented before the AVS environment can be used for planned data conversion and testing activities. The determiniation of security requirements is critical as data conversion activities are already delayed for the AVS exulty and setting activities are to begin in November 2019. The development of formalized policies will also impact the application security management plan and design in Notamber 2019. The development of formalized policies will also impact the application security requirements should be determined immediately to prevent further delay of the project.	2019.10.1T02.R1 2019.10.1T02.R2	Formalize security policies. Formalize and implement security procedures.	<ul> <li>Work with ETS to align DLIR policies with State policies and/or a standard security framework.</li> <li>Consider prioritizing security policies that are most relevant for use of cloud services and data protection (e.g. security logging and monitoring, MFA, remote access, encryption of data-at-rest and data-it urant)</li> <li>Clarly roles and responsibilities for security controls between DLIR and ETS.</li> <li>Holmity pacific resources to perform security procedures.</li> <li>Consider prioritizing security procedures.</li> <li>Consider prioritizing security procedures.</li> <li>Consider prioritizing security more that are necessary for the operation of the AWS environments.</li> </ul>	Open -	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21, and 12/29/21: No updates to report. 01/25/22: DLIR clarified some of the security requirements for Phase 1 Content Management with ETS. 02/24/22, 03/23/22, and 04/26/22: No updates to report. Accuity will evaluate the security policies, requirements, and procedures as they are finalized.		

ASSESSMENT CATEGORY	FINDING ID T	ORIGINAL YPE SEVERITY	CURRENT	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Resource Management				processes and procedures may result, in undentified resource requirements, inadequate resources, or project resources that are not optimally utilized (Updated)	Project Management Plan (version 1.3) includes a human resource management section that outlines the high-level roles and	2 2019.09.PM02.R2	Develop procedures to estimate and refine DIR resource requirements. Develop processes to optimize utilization of DLR project resources.	- Detail necessary steps and information needed to estimate and refine resources requirements Consult DataHouse for input on upcoming activities that require DLR - Consult DataHouse for input on upcoming activities that require DLR - Massign responsibility for and establish target due dates to develop - members' other job dutes Consider working with managers of project resources to reassign team - members' other job dutes Consider periodically recomfirming and renewing resource - Ensure team members understand their responsibilities (e.g., testing, - Finure team members are properly trained and prepared to perform their assignments Ensure to fools for resource calendars and tracking of team member assignment projects and completion Consider a signment progress and completion Consider a	-	Refer to prior V&V Monthly Report for status updates before November 2021. 11/29/21: DUR plans to manage UAT resources by breaking UAT into test cycles and teams, scheduling specific days of the week for testing, and holding recurring meetings to address questions and assues. Additional resource management strategies are still needed for other activities and phases. 12/29/21: Plans to manage UAT resources in test cycles, teams, and days did not occur as planned. 00.1/25/22: Resource management is one of the issues with the greatest impact to overall project performance and success. Resource management strategies should be ervisited to improve management and productivy of DLR resources, especially for Phase I Case Management UAT, including how to best levensets to improve management and productivy of DLR resources, especially for Phase I Case Management UAT, including how to best levense the additional resources for UAT. Test cases are essigned to testens effectively and testing progress is monitored more closely. 03/23/22: Rounce engagement and ownership improved. DLR implemented recurring sessions to provide additional transing and support for UAT treest. This is also helping to keep testers on tak and make progress to complete assigned test cases. However, DLR should continue exploring other ensure management strategies to increase pace of work as UAT is still behind schedule. 04/26/22: No updates to report. Acculty will continue to evaluate resource management practices.		
System Software, Ind	2019.09.IT02 R	Noderate	Moderate		This was originally reported in the September 2019 IV&V Monthly Report as a preliminary concern but is upgraded to a risk in this report. The MSO roles and exponsibilities and plans for developing support preventing a support option in their contract with DataNouse to help with MSO after go-less at is uncertain for LER EDSO will have adequate resources to perform required M&O. The COVD-19 pandemic (refer finding 2020.02) MOI (ruther accentises and creates additional uncertainty with regards to DLIR EDFSO and mass additional and responsibilities within the DLIR EDSO bases and any shared responsibilities with the DLIR EDSO bases and any shared responsibilities with the DLIR EDSO bases and any shared and responsibilities within the DLIR EDSO bases and any shared DEDSO seen or acquire the necessary securices (2016/07) MIA (1) This should be done with sufficient time for training and knowledge transfer pagenosibilities will abo help to develop the related security management plan (refer to finding 2019.07.1707).	2019 09:IT02.AI	Clarly M&O roles and responsibilities.	+Discuss terms of DataHouse support option to undentand level of support, cost structure, and timing of transition. <ul> <li>Clarify any shared responsibility with ETS and enterprise tools that can be leveraged.</li> </ul>	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/9/21: DUR and DataHouse came to an agreement that tumover of the systems will be at the end of all time phases. M&O roles and responsibilities during the interim procide between go-live and system tumover need to be further clarified. 12/9/21: Phase 1 Content Management go-live is less than a month away and Phase 1 Case Management go-live is less than a work and phase 1 DataHouse plan to discuss M&O roles and responsibilities during the interim period still need to be clarified. 01/25/22: DUR and DataHouse plan to discuss M&O roles and responsibilities of jointe of Phase 1 Content Management. 02/24/22: No updates to report. 02/24/22: System M&O roles, procedures, and metrics are still unclear two nomths post go-live for Phase 1 Content Management. DUR provided feedback on DataHouse's daft Content Management. DUR provided feedback on DataHouse is daft Content Management. DUR provided feedback on DataHouse is daft Content Management. DUR provided feedback on DataHouse is daft Content Management. DUR provided M&O information. DLR also continues to update Phase 1 Content MAnagement and Case Management fullow more detailed M&O information. DLR also continues to update Phase 1 Content MAnagement and Case Management Gorgettens dManagement and Case Management and Case Management and Case Management 4.04/24/22: No updates to report. Accutiv will continue to evaluate M&O as roles and responsibilities are clarified.		
Benefits Realization	2019.07.PG05 R	isk Moderate	Moderate	Not defining, tracking, or using clear and measurable goals and success metrics to evaluate project and contractor performance may reduce benefits expected at project completion.	The aCMS Project does not have a project charter that would have helped to formalize the project goals, target benefits, and success metrics at the start of the project. Based on informal recommendations made by Team Accuity during the initial IV&V on sate review, DLIR is in the process of oresting a project charter that includes clear goals and success metrics. The lack of clear and messurable goals and success metrics makes if follut to determine if the project and technical solution will achieve the desired level of improvement or benefits that tudys of periodic financial investment. Coast and success metrics to be defined before going any further in the project as they should be guiding all key decisions throughout the entire project.	2019.07.PG05.R1 2019.07.PG05.R2 2019.07.PG05.R3	success metrics in a project charter Collect baseline and project performance data.	•Consider financial, nonfinancial, tangible, and intangible metrics such ta operational Key Performance indicators (PPI), customer or employee satisfaction, user adoption, return on investment, or cycle or processing times. •Consider project management, organizational change management, and benefits realization management objectives as well as alignment to DLR goals. •Consider methods for collecting data such as surveys, queries, observation, oper forums, or actual performance testing. •Consider sources of data such as legacy systems, operations, and internal and external stakeholders.	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21, 12/29/21, 01/25/22, 02/24/22, 03/23/22, and 04/26/22: No updates to report. Acculty will continue to evaluate the collection and monitoring of success metrics data.		
							or evaluate project or contractor performance.					

ASSESSMENT		ORIGINAL	CURRENT						FINDING		CLOSED	
CATEGORY	FINDING ID TYPE 2019.07.PM02 Risk	SEVERITY	SEVERITY	FINDING	ANALYSIS The eCMS Project has failed to achieve team synergy between DLIR and	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE Refer to prior IV&V Monthly Report for status updates before November	DATE	CLOSURE REASON
Pojett Oganization and Management	2019-00-1-MID2 Hoak	rign	rign	The current project management organization may hinder project performance.	Inte eLMs Project has land to achieve team synthering between DLK and Datahouse project stam members and appear to work as expande second for designated meetings, workshops, and design sessions and DLK and to include in many project design or development activities. The unclear contract terms regarding roles and reponsibilities between of the project team, and imited collaboration or DLK involvement have communications within the project team (refer to finding 2019.07.PM00), byte- communications within the project team (refer to finding 2019.07.PM00), byte- net of the project team (refer to finding 2019.07.PM00), byte- communications within the project team (refer to finding 2019.07.PM00).	2019-07. PM02.R1 2019-07. PM02.R2 2019-07. PM02.R3	Clarify roles and responsibilities between DLIR and DataHouse. The DataHouse Project Manager should work onsite at DLIR through public to impletion is improve During to impletion by improve provide the project activities and communications to increase DLIR and DataHouse project team cohesion.	*Consider revising project management plans to identify the person responsible on list specific responsibilities for each project management area. Consider the need to include an outline of DUR and DataHouse roles and responsibilities in a contract modification (refer to finding 2019/07/PG03).	Open	neter to pror VAW Monthly keport to statu updates before November 2021. 11/29/021. The recurring meetings between the DataHouse development team and DLR testems during UMV were deferred due to the rescheduling of UAT to December 2021. 11/29/021. Recurring meetings between the DataHouse development team and DLR statefic for Content Management UAT but did not begin for Case Management UAT. 01/25/022. DLR and DataHouse came together in the final weeks leading up to Phase 1 Content Management Que to coordinate, prioritize, complexi- or misgiate deployment activities to keep the project on track with the DLR stateAndeet in the first rolling of Content Management Monthum achieved through increased collaboration and coordination during this first major milestone needs to be quickly transitioned to the next rollout. 20/22/22: DLR and DataHouse need to minima their increased collaboration and coordination to avoid furthe project constatins. 30/22/22: DLR and the DataHouse Content Management qo-live has caused an increase in schedule and resource issues for other phases. DLR and DataHouse need to minimatin their increased collaboration and coordination to avoid furthe project constatins. 30/22/22: DLR and the DataHouse Content Management do-livee for unsign stand-up meetings also help to improve collaboration adverse meaning stand-up meetings also help to improve collaboration adverse diddistorial collaboration and communication is needed around Phase 2 and 3 activities.		
										04/26/22. Physics organisation and management continue to be a challenge. With that 1 Case Management go-live opticity approaching, greater clarity is needed amound status, plans, schedule, processes, and metrics. DLR and DataHouse need to improve collaboration and coordination to address delays under the re-baselined schedule that are already accurring. Accurly will continue to evaluate the clarity of noles and responsibilities and observe the effectiveness of project organization.		
Project Organization and Management	2019.07.PM03 lissue	Moderate	Moderate	The current deliverable review and acceptance process has contributed to project delays and resulted in the acceptance of deliverables that do not meet industry standards.	As DLR has had limited involvement in project activities or the oppravisor of delevables (refer to finding 2010 /7 MVG). DLR does not have an understanding of the purpose of the deliverables or the brought process and factors that were considered in developing the deliverables. This has led to portracted review periods and acceptance of deliverables that do not meet industry standards (refer to finding 2019/07 MVID). A lack of a clear deliverable listing or acceptance circleria (refer to finding 2019/07 MVID), a lack of a quality management process and resource to verify deliverables (refer to finding 2019/07 MVIA) and over taked project managens (refer to finding 2019/07 MVIA) also contribute to an ineffective deliverable review and acceptance process. The deliver the supproval of deliverables has been	2019.07.PM03.R1 2019.07.PM03.R2 2019.07.PM03.R3	Establish deliverable acceptance criteria. Hold joint DLR and DataHouse deliverable review meetings to wall through deliverables. Implement formal deliverable review and approval processes.	Consider including acceptance criteria in the quality management plan (Here to finding 2019.07.10%), as contract amendment (Here to finding 2019.07.17%), as contract amendment (Here to finding 2019.07.PO03), or in Deliverable Expectation Documents (DED) which are the acope validation process for acceptance and the quality control process for corrections (where to finding 2019.07.11.05), include an evaluation of deliverables against acceptance criteria and requirement documentation. +DUE should understand how each deliverable impacts the project schedule, roles and responsibilities, and ultimately the quality of the	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21: DUR signed off on the Phase 2 design deliverable. 12/29/21: No updates to report. 01/25/22: DUR signed off on the Phase 1 Content Management system missilation and configuration deliverable bot it is unclear what the acceptance criteria was and whether the deliverable adequately documents the information DR needs in order to perform MAO for the system (refer also to finding 2019.09.102). DUR also signed off on Content Management also finding 2019.09.1020. DUR also signed off on Content Management AUT and final data migration even through there are perioding issues that	t	
					cited by the CMS Project team as one of the reasons the Phase 1 go- live dates were extended. Based on informal W&V recommendations, DataHouse and DLR standed to implement joint deliverable review meetings beginning June 2019.			technical solution and success of the project.		need to be addressed by either DLR or DataHouse. 02/24/22 and 03/23/22: DLR continues to sign off on additional DataHouss deliverables but is unclear what processes or factors were considered in accepting these deliverables. 04/26/22: No updates to report. Accuty will continue to evaluate the effectiveness of the deliverable review and acceptance process.		
Communication Management	2019-07.PM06 Issue	Moderate	Moderate	DataHouse's ineffective and untimely communications with the DLIR Project Team contributed to DLIR's incomplete understanding of the technical solution, potential risks, and upcoming project activities.	Communication activities Issel in the Project Maragement Play feerioon 10 (d of not coar a planned as the week project status meetings did not beign until Apil 2019 and the first progress report was not completed unil Playbury 2019. Depide the commencement of regular project communications, mixundestandings and mixcommunications between the Databouse and DUR project teams continued to occur. DUR project team members had a plecemeal understanding of the technical solution (feet to finding 2019 /0.1102) and project initia and asses fefter to finding 2019 /0.1102) and project initia and asses fefter to finding 2019 /0.1102) and project initia and expect for the design stage assions (e.g. what would be covered each day, which end users needed to participate). There has also been a lake day which end users needed to participate). There has also been a lake to finding 2019.07 PMOS). NLR Project activities will also address this finding. Below are additional recommendations to further improve project team communications.	2019.07.PMO6.R1	Implement daily touch point meeinga between DaaHouse and DUR Project Managers.		Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21: The DLIR and DataHouse Project Managers are working closely to evaluate different ways to keep the project moving forward with ongoing Phase 1 Content Management teMinal issues. The recurring meetings between the DataHouse development teams and DLIR test teams during ULT were different Wanagement teMinal and DLIR test teams during ULT were different Wanagement teMinal test teams during ULT were different Wanagement teMinal test teams during ULT were different Management teMinal testeres DLIR and DataHouse of current project status and risk still need improvement. 10/25/22: Recurring meetings and DataHouse that were circuid for frequent communications between DLIR and DataHouse that were circuid for frequent communications between DLIR and DataHouse that were circuid for frequent communications between DLIR and DataHouse that were circuid for Management ULT. Continued open and transparent dialogue between DLIR and DataHouse testeres Management that is currently at risk. 20/24/22: PLIR and DataHouse frequently meet to discuss Case Management that is currently at risk. 20/23/22 cand 04/26/22: With greater clarify needed around and timely project execution. 20/23/22 and 04/26/22: With greater clarify needed around and timely project execution. 20/23/22 and 04/26/22: With greater clarify needed around status, plant, schedule, processe, and memory project and/Link for the upcoming Phase 1 Case Management Type, it is nicital Intel MLR and DataHouse communication arecution. 20/23/22 and 04/26/22: With greater clarify needed around status, plant, 20/23/22 and 04/26/22: With greater clarify needed around status, plant, 20/23/22 and 04/26/22: With greater clarify needed around status, plant, 20/23/22 and 04/26/22: With greater clarify needed around status, plant, 20/23/22 and 04/26/22: With greater clarify needed around status, plant, 20/24/24/24: With greater clarify needed		

ASSESSMENT CATEGORY	FINDING ID TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Communication Management	2019-07.PM007 Rek	Moderate	Moderate	The lak of stallored project communications for all impacted stakeholden may reduce user adoption and stakeholder boy-in.	Communications management is a part of the Pojeck Management Plan developed by Databuce, however, the plan is not comprehensive and primarily reflects project meetings, status reporting, and issue reporting. The approved Project Management Plan (nection). Ta way and the to include a communication matrix that outlines additional communication activities. While this is an improvement over the previous varian, the lammunication activities as all valenholders are graphing- grading. The plan status of the plan status of the plan of the three broad communication methods and activities. A formal communication requirements analysis was not conducted to determine the information requirements analysis was not conducted to mained by the intervention of the plan of the plan of the project information and there is no dedicated role or adequate resources angined to communication activities. In some of the plan of the plan of the plan of the plan of the plan to plan of the plan of the plan of the plan of the plan to plan of the plan of the plan of the plan of the plan of the project related meetings and working sessions. However, this informal stakeholders. The plan of the project-related meetings and working sessions. However, this informal stakeholders.	2019.07.PM07.R1	Further refine communication management plans.	Fegment stakeholdes into groups by communication needs such as by department multile (a), hearings, functionement, or Records and Claims), by position (e.g., manager, supervisio), or internal and external (e.g., claimsti, humance agencies). RConsider the list of communication methods lated in DataHouse's BARO. The periodic groups and communication activities allowed be prioritized to focus resources most efficiently. RUpdate the project schedule for communication activities and assigned resources (refer to finding 2019.07.PM14).	Open	Refer to pror IV&V Monthly Report for status updates before November 2021. 11/29/21: DUR held divisional meetings to provide project updates for internal DCD stakeholders. 12/20/21: When Rea 1 go-like dates quickly approaching, the pre and post pa-like communication plan and activities for both internal and external takeholders should be finalized. 10/25/22: The communication plan and activities for the DUR stakeholders in the first rollout of Phase 1 Content Management were finalized and diviewed. DUR take strated weekly meetings and emails communications plan and more specific communication plan and more specific communication plan and more specific communication related to the DDL rollout of Content Management as well as for Mase 1 Case Management the still needed. 20/24/22: Internal communications have improved with weekly stand-ups and regular OCM updates. However, a communication plan with external stakeholders for future phases and rollouts still needs to be developed. 20/24/22: Internal CuR communications continue to improve with weekly stakeholders for future phases and rollouts still needs to be developed. 20/24/22: Internal CuR communications continue to improve with weekly stakeholders. To Reverse and pooling activities. DUR is the pooming Phase 1 Case Management go-live quickly approaching, DLR needs to quickly improve their communications with external stakeholders. DUR frast 1 Case Management go-live quickly approaching, DLR needs to quickly improve their communications the external stakeholders. DLR needs to quickly improve their communications the estimal stakeholders. DLR the still in the process of procuring an additional resource that will help to develop a communications plan for external stakeholders. Acculty will continue to evaluate project communication plans and activities.		
Organizational Osange Management	2019.07. <i>P</i> M08 Rok	Moderate	Moderate	Matung bey OCM ange or activities ma mol identify pockation of matistance or adequately enable individual change.	There is no formal GCM pion or approach. Databoards BMO is indiriad GCM active ib but these are no formalized in a plan or processes. There are no CGM specific tasks or resource avelgeed for processes. There are no CGM specific tasks or resource avelgeed for dements of CGM activities in the project shadgement communication and vaning activities. The DLR Project Manager's incluive and collatoriate approach with threat state-bolders (lefer to finding 2019.07.PM01) and the CGD Executive Sponsor's active and values any point to project (lefer forming 2019.07.PG01) also mitigates the lack of a formal approach. Indivudy project amagement approaches in increasing probability of project success. Performing activities with an CCM (acquired and the respective) and substrate the solution is ultimately adopted and embraced by employees.	2019.07.PM08.R1	Develop and implement a structured OCM approach.	Collict busine change anarones and readines measurements troogh survey or intenview. Create and mobilize a change coalition group of managers, supervisora, and align OCM into communication, business process engineering (RP), and training activities. Poevelop OCM activities to address identified awareness gaps or pockets of resistance. +implement reinforcement mechanisms to support change and increase adoption.	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21: DUR continues to hold supplemental working sessions and trainings to help DUR project team members prepare for and participate in project activities. DIR recess for three develop the COL plans and approach to increase stakeholder engagement, collect periodic readiness day, and reinforce changes related to the upcoming Content Management go-live. 12/29/21: DUR continues to prepare additional reference materials and meet one-on-one to help DUR project team members prepare for and and registerion et a help DUR project team members prepare for and and registerion et a help DUR project team members prepare for and and registerion et a help DUR project team members prepare for and and registerion et a help DUR project team members prepare for and and registerion et a help DUR project team members prepare for and and registerion et a help DUR project team members prepare for and and registerion et a help DUR project team members prepare for and registerion et a help DUR project team members prepare for and and registerion et al. Additional QCM strategies should be explored to increase stakeholder support. Dataforse on site recource will also help to hold be register post go-live stand-up sessions to provide additional stakeholders and strategies are needed for the DCD rollout of Content Management 18 well as for Maxe I Case Management. Dit corease tester support and confidence in the system. 2024/22: DUR held regular post go-live stand-up sessions to provide additional atakeholder support. COM updates are regularly emailed to stakeholdes on an weekly basis. However, resource engagement and ownership sill memoreasing income ultitution. Engagement and ownership sill memoreasing income ultitution. Engagement and ownership form DLR resources improved. Additional ACM plans and trategies are needed for othe program ultitution. Engagement and ownership form DLR resources improved. Additional ACM plans and tra		

SSESSMENT ATEGORY FINDIN	ING ID TYPE	ORIGIN SEVERI	IAL CURREI TY SEVERI	IT Y FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS		CLOSED DATE	CLOSURE REASON
isk Management 2019.0	.07.PM09 Issue	e Moder	ate Modera		Only three risks and two issues have been identified by DataHouse on	2019.07.PM09.R1	Formalize the Risk and Issue	•A formalized process should clearly define responsibilities and steps in	Open	Refer to prior IV&V Monthly Report for status updates before November		
				identified, tracked, or reported resulting in the lack of understanding of potent	g the project to date with no history of any risks being closed. DLIR ial project team was not tracking any of its own risks or issues related to the		Management process.	identification, resolution and action items tracking, and escalation procedures.		2021.		
				impacts across project team members	project. A risk regarding the delay in the completion of the MOU			•The project team must encourage open, transparent discussion about		11/29/21: DLIR and DataHouse evaluated different risk mitigation strategies		
				and there are no mitigation plans to adequately address them.	agreement with DHS (refer to finding 2019.07.PM04 and 20109.07.IT01) was never identified and the risk identified in the Content Management	2019 07 PM09 R2		risks and issues.		to address ongoing Phase 1 Content Management technical issues. DLIR and DataHouse are completing steps to mitigate risks and issues but		
				bucquirely budiess trent.	Conversion and Migration (version 0.0) document (refer to finding	2019.07.PM09.R2	Conduct regular meetings to discuss project risks and issues.	<ul> <li>Include DataHouse and DLIR and, on occasion, the executive steering committee (refer to finding 2019.07.PG02).</li> </ul>		additional improvements to risk management processes are needed to		
					2019.07.IT.04) was not included in the risks and issues log, indicating an ineffective risk and issue management process. Based on information			Perform a detailed review of new items, status of open items,		increase the speed of resolution.		
					IV&V recommendations made during the assessment period, both DLIR			risk/issue owners, and mitigation plans.		12/29/21: Accuity increased the severity rating from Level 2 (Moderate) to		
					and DataHouse have communicated a plan to start identifying and					Level 1 (High). DLIR and DataHouse are making some progress to complete		
					logging risks jointly onto DataHouse's log and reviewing them together weekly. As identification and mitigation of risks and issues are critical to					risk and issue mitigation tasks; however, the slow speed of resolution is contributing to project delays. Closer monitoring and quicker execution of		
					project success, a formal process should be implemented before moving					mitigation plans for all high priority risks and issues will help to minimize		
					forward in the project.					schedule impacts of risks and issues.		
										01/25/22: Accuity decreased the severity rating from Level 1 (High) to Level		
										2 (Moderate). DLIR and DataHouse mitigated Phase 1 Content Management		
										go-live risks by limiting rollout to a small number of users, prioritizing issues and tasks that must be completed prior to go-live, and deferring other items		
										to post go-live. This strategy helped to mitigate schedule risks for the Phase		
										1 Content Management go-live, but also increases risks for other phases due		
										to the deferral of work. Risk mitigation plans for other phases of the project, including the quickly approaching Phase 1 Case Management go-live, need		
										to be developed and implemented		
										02/24/22: DLIR and DataHouse are working to address Phase 1 Content		
										02/24/22: DLIK and DataHouse are working to address Phase 1 Content Management risks and issues but the time and effort that continues to be		
										spent on Content Management is creating risks and issues for other phases.		
										Risk mitigation plans for other phases of the project need to be developed and implemented.		
										and implemented.		
										03/23/22: With the upcoming Phase 1 Case Management go-live, it is		
										critical that risk mitigation plans are developed and implemented to ensure the project stays on track with the proposed timeline and can successfully		
										deploy the new system.		
										04/26/22: DLIR and DataHouse need to actively monitor and aggressively mitigate risks related to the upcoming Phase 1 Case Management go-live.		
										Task delays in the new schedule and the large number of open risks and		
										issues collectively may have a significant impact on DLIR operations if not addressed prior to go-live. Improvements in risk management processes are		
										needed to consistently and proactively mitigate risks.		
										Accuity will continue to monitor the risk management process.		
ope and 2019.0	.07.PM10 Issue	High	High	The Content Management and Case	The requirements for both Content Management and Case Management	2019 07 PM10 R1	Revise Content Management and	<ul> <li>Ensure requirements follow SMART (specific, measurable, actionable,</li> </ul>	Open	Refer to prior IV&V Monthly Report for status updates before November		
quirements		5	-	Management requirements	have already been approved; however, the requirements are incomplete		Case management requirements	realistic and time bound) guidelines.		2021.		
anagement				documentation is incomplete.	(e.g. do not incorporate all contract requirements and all three project phases) and the descriptions in the Requirements Traceability Matrix		documentation and RTM.	<ul> <li>Ensure requirements documentation include all requirements listed in the DataHouse contract, all requirements identified during the</li> </ul>		11/29/21 and 12/29/21: DUR is continuing to create UAT test cases as a		
					(RTM) lack sufficient detail. The current RTM also does not link			stakeholder sessions, and for all three phases of the eCMS Project.		way to mitigate missing or outdated project requirements.		
					operational and project objectives to design artifacts. Furthermore, the			<ul> <li>Ensure requirements include functional, performance, process, non-</li> </ul>				
					RTM does not include non-functional requirements, including compliance with Hawaii Revised Statues, Hawaii Administrative Rules			functional, security, and interface requirements.		01/25/22 and 02/24/22: Requirements continue to be clarified and refined during Phase 1 UAT and Phase 2 development. It is unclear how the		
					and security requirements.	2019.07.PM10.R2	Improve requirements management processes.	<ul> <li>Ensure that there is a clear understanding between DataHouse and DUP</li> </ul>		feedback from SMEs are used to update requirements documentation.		
					Requirements management is a part of the Project Management Plan		management processes.	DLIR regarding who is responsible for identifying and tracking different types of requirements.		03/23/22: Phase 3 requirements gathering is resumed and the requirements		
					developed by DataHouse; however, the plan is not comprehensive. The			<ul> <li>Develop a process for prioritizing and reporting requirements.</li> </ul>		deliverable was deferred to the end of March 2022. DLIR is in procurement		
					Project Management Plan (version 1.2) was updated to include additional			<ul> <li>Develop a process for tracing requirements to specific system design elements.</li> </ul>		for a new business analyst contractor that will serve as a liaison to external		
					details regarding requirements management. While this is an improvement over the previous version, the latest draft plan still does			for the EEF Contract		stakeholders and help to collect external stakeholder requirements for the Phase 3 portal. It is unclear how these requirements will be incorporated		
					not provide adequate details regarding the requirements prioritization					into DataHouse's Phase 3 requirements deliverable and development		
					process, the traceability structure, and how requirements will be					processes.		
1					reported.					04/26/22: The Phase 3 requirements deliverable was provided and is		
1					As requirements are the foundation for proper system design,					pending DLIR's review and approval. It is still unclear how requirements		
1				l l	development, and testing, it is essential that requirements documentation are complete and meet industry standards and best					collected by the new business analyst contractor will be incorporated into the Phase 3 requirements deliverable.		
					practices. Requirements documentation should be revised and							
					requirements management processes should be improved prior to					Accuity will continue to evaluate the requirements documentation and		
					moving forward in the project.					processes.		
			ate Modera		There is no formal cost management plan. A comprehensive total	2019.07.PM12.R1	Prepare a comprehensive project		Open	Refer to prior IV&V Monthly Report for status updates before November		1
t, Schedule and 2019.0	.07.PM12 Issue	e Moder			project budget is not created, tracked, or reported. Currently, payments	1	budget and a schedule of long-			2021.		
source	.07.PM12 Issue	e Moder		may lead to unexpected costs or	project budget is not created, tracked, or reported. Currently, payments				i i	11/29/21 and 12/29/21: No updates to report.	I	
ource	.07.PM12 Issue	e Moder		may lead to unexpected costs or overpayments of contracts.	are tracked for the two main eCMS Project contracts: DataHouse SI contract and the Team Accuity IV&V contract. Other costs for licenses		term operational costs (e.g., licenses, subscriptions,					1
ource	.07.PM12 Issue	e Moder			are tracked for the two main eCMS Project contracts: DataHouse SI contract and the Team Accuity IV&V contract. Other costs for licenses and equipment are tracked informally as these are often paid from		term operational costs (e.g., licenses, subscriptions, maintenance, cloud services).					
ource	.07.PM12 Issue	e Moder			are tracked for the two main eCMS Project contracts: DataHouse SI contract and the Team Accuity IV&V contract. Other costs for licenses and equipment are tracked informally as these are often paid from DD's regular or excess funds. With the recent DHS development, costs	2019.07.PM12.R2	licenses, subscriptions, maintenance, cloud services). Prepare regular cost reports for		÷	01/25/22: DLIR is currently procuring or evaluating the need for additional		
ource	.07.PM12 issue	e Moder			are tracked for the two main eCMS Project contracts: DataHouse 3 contract and the Team Accuity W8V contract. Other costs for licenses and equipment are tracked informally as these are often paid from DCD's regular or excess finds. With the recent DFM development, costs of all required hardware and software for the alternative solution as well as inconterm constrained rots for hor non-next the values and and	2019.07.PM12.R2	licenses, subscriptions, maintenance, cloud services). Prepare regular cost reports for management and the executive		-	01/25/22: DLIR is currently procuring or evaluating the need for additional eCMS Project contracts.		
ource	.07.PM12 Issue	e Moder			are tracked for the two main cCMS Project contracts: DataHouse SI contract and the Team Accuity VM2 contract. Other costs for licenses and equipment are tracked informally as these are often paid from DCD's regular or excess funds. With the recent DHS development, costs of all required indraware and software for the alternative solution as well as long-term operational costs need to be properly evaluated and managed (iden'to finding 2019/2017). It Additionally, total project costs	2019.07.PM12.R2	licenses, subscriptions, maintenance, cloud services). Prepare regular cost reports for			01/25/22: DUR is currently procuring or evaluating the need for additional eCMS Project contracts. 02/24/22: DUR is procuring two additional eCMS Project contracts.		
source	.07.PM12 Issue	e Moder			are tracked for the two main eCMS Project contracts: DataHouse 3 contract and the Team Accuity W8V contract. Other costs for licenses and equipment are tracked informally as these are often paid from DCD's regular or excess finds. With the recent DFM development, costs of all required hardware and software for the alternative solution as well as inconterm constraints of the alternative resultion and and	2019.07.PM12.R2	licenses, subscriptions, maintenance, cloud services). Prepare regular cost reports for management and the executive		-	01/25/22: DLIR is currently procuring or evaluating the need for additional eCMS Project contracts. 02/24/22: DLIR is procuring two additional eCMS Project contracts. Improvements in cont management processes are needed to track and		
st, Schedule and 2019.0 wurce nagement	.07.PM12 Issue	e Moder			are tracked for the two main cCMS Project contracts: DataHoues SI contract and the Team Accuity VBV contract. Other costs for licenses and equipment are tracked informally as these are often paid from DCD's regular or excess funds. With the recent DFG development, costs of all required hardware and software for the alternative solution as well as long-term operational costs need to be properly evaluated and managed (refer to finding 2019.07.1701). Additionally, total project costs and funding sources are not formally reported. The DataHouse contract states that payments are contingent upon	2019.07.PM12.R2	licenses, subscriptions, maintenance, cloud services). Prepare regular cost reports for management and the executive			01/25/22: DLR is currently procuring or evaluating the need for additional eCMS Project contracts. 02/24/22: DLR is procuring two additional eCMS Project contracts. Improvements in cost management processes are needed to track and monitor other project costs.		
source	.07.PM12 Issue	e Moder			are tracked for the two main eCMS Project contracts: DataHouse SI contract and the Team Accuity VBV contract. Other costs for licenses and equipment are tracked informally as these are often paid from DCD's regular excess funds. Which encent DT6 development, costs of all required hardware and software for the alternative solution as well as long-term operational costs need to be properly evaluated and managed (refer to finding 2019/07.1101). Additionally, total project costs and funding sources are not formally reported. The DataHouse contract takes that payments are contingent upon reported refers (additional encounts in acromations to the		licenses, subscriptions, maintenance, cloud services). Prepare regular cost reports for management and the executive steering committee.			01/25/22: DLIR is currently procuring or evaluating the need for additional eCMS Project contracts. 02/24/22: DLIR is procuring two additional eCMS Project contracts. Improvements in cost management processes are needed to track and monitor other project costs. 03/23/22: Three additional DLIR contracts are currently in procurement.		
source	.07.PM12 Issue	e Moder			are tracked for the two main eCMS Project contracts: DataHouse SI contract and the Team Accuity VBV contract. Other costs for licenses and equipment are tracked informally as these are often paid from DCD's regular excess funds. Which encent DT6 development, costs of all required hardware and software for the alternative solution as well as long-term operational costs need to be properly evaluated and managed (refer to finding 2019/07.1101). Additionally, total project costs and funding sources are not formally reported. The DataHouse contract takes that payments are contingent upon reported refers (additional encounts in acromations to the	2019.07.PM12.R2 2019.07.PM12.R3	licenses, subscriptions, maintenance, cloud services). Prepare regular cost reports for management and the executive			01/25/22: DLR is currently procuring or evaluating the need for additional eCMS Project contracts. 02/24/22: DLR is procuring two additional eCMS Project contracts. Improvements in cost management processes are needed to track and monitor other project costs.		
ource	.07.PM12 Issue	e Moder			are tacked for the two main cCMS Project contracts: DataHoue SI contract and the Team Accuity VBV contract. Other costs for licenses and equipment are tacked informally as these are often paid from DCD's regular or excess funds. With the recent DFG development, costs of all required hardware and software for the alternative solution as well as long-term operational costs needs to be properly evaluated and managed (refer to finding 2019.07.1701). Additionally, total project costs and funding sources are not formally reported. The DataHouse contract states that payments are contingent upon receipt of services, deliverables, and reports in accordance to the milletones that meet the expectations of the RFP. DataHouse provided DLIR with a monthly payment schedule and as of June 30, 2019, DJIR has paid DataHouse's invoices through AndI 2020 PM and June 2019		licenses, subscriptions, maintenance, cloud services). Prepare regular cost reports for management and the executive steering committee.			01/25/22: DLR is currently procuring or evaluating the need for additional eCMS Project contracts. 02/24/22: DLR is procuring two additional eCMS Project contracts. Improvements in cost management processes are needed to track and monitor other project costs. 03/23/22: Three additional DLR contracts are currently in procurement. AVS costs do not appear to be actively managed or monitored by DLR. 04/26/22: Costs for one of the on going procurements, related to data		
ource	.07.PM12 Issue	⊧ Moder			are tracked for the two main eCMS Project contracts: DataHouse SI contract and the Team Accuity VBV contract. Other costs for licenses and equipment are tracked informally as these are often paid from DCD's regular excess funds. With the recent DFS development, costs of all required hardware and software for the alternative solution as well as long-term operational costs need to be properly evaluated and managed (refer to finding 2019.07.1101). Additionally, total project costs and funding sources are not formally reported. The DataHouse contract Lates that payments are contigent upon receipt of service, deliverables, and exposits in accordance to the mitestones that meet the expectations of the RFP. DataHouse provided DLR with a monthy payment schedule and as of Juan 30, 2019, DLR has paid DataHouse's invoices through April 2019 May and June 2019 invoice payments are still pending. Although the project schedule,		license, subscriptions, maintenance, cloud services). Prepare regular coart reports for management and the executive steering committee. Clarify DataHouse payment schedules for and adjust payment schedules for			01/25/22: DUR is currently procuring or evaluating the need for additional eCMS Project contracts. 02/24/22: DUR is procuring two additional eCMS Project contracts. Improvements in cost management processes are needed to tack and monitor other project costs. 03/23/22: Three additional DUR contracts are currently in procurement. AWS costs do not appear to be actively managed or monitored by DUR. 04/26/22: Costs for one of the on going procurement, related to data coversion resources for paper files, could significantly impact the total coordinates.		
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ource	.07.PM12 Issue	e Moder			are tracked for the two main eCMS Project contracts: DataHouse SI contract and the Team Accuity VBX contract. Other costs for licenses and equipment are tracked informally as these are often paid from DCD's regular excess funds. Which the recent DFG development, costs of all required hardware and software for the alternative solution as well ammaged inferr to Inding 2019 COV 10101, Additionally, total project costs and funding sources are not formally reported. The DataHouse contract tates that payments are contingent upon receipt of services, deliverables, and reports in accontingent upon receipt of astroices, deliverables, and reports in accontance to the millestones that meet the expectations of the RFP. DataHouse provided DLR with a monthly payment schedule and as of Juan 2019 has paid DataHouse's microices through April 2019 May and June 2019 deliverable timelines, and goiline calks have been provided DataK, no adjustments were made to the northly payment schedule which could result in overpayments. Due to the lack of clear and specific deliverable		license, subscriptions, maintenance, cloud services). Prepare regular coart reports for management and the executive steering committee. Clarify DataHouse payment schedules for and adjust payment schedules for			01/25/22: DLR is currently procuring or evaluating the need for additional eCMS Project contracts. 02/24/22: DLR is procuring two additional eCMS Project contracts. Improvements in cost management processes are needed to track and monitor other project costs. 03/23/22: Three additional DLR contracts are currently in procurement. AVXS costs do not apper to be actively managed or monitored by DLR. 04/26/22: Costs for one of the on-going procurements, related to data convenion resources for paper files, could significantly impact the total cost of the project. DLR hould perform a cost analysis to determine whether to continue with this procurement or pursue other options including an existing line in the Databox contract for migration of paper files or himg on		
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ASSESSMENT CATEGORY	FINDING ID	туре	ORIG SEVE	INAL CURRENT RITY SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
CATEGORY Cast, Scheduler Resource Management	<u>INDING ID</u> 2019.07.PM	<u>TYPE</u> 1530/0	SPAR	EVERITY Righ	PROPNO Indequate schedule management practices may lead to project delay, missed project activites, unrealist schedule forecasts, or unidentified auses for delays.	NAM295 In Phase 10 poly data were delayed a few times since the start of the project with the Content Management golve delayed thee months and the Case Management golve delayed them conths. Readows and the Case Management golve delayed them conths. Readows and the Case Management golve delayed were the NAM contact, were the NAM contact, and delayed processes of the NAM contact, and the NAM contact should be not prophydicate should be not an or prophydicate should be not prophydicate sho	ECOMMERCATION D 2019-07-PM13.81 2019-07-PM13.82 2019-07-PM13.83 2019-07-PM13.83	SECOMMENDATION Decement and approve revisions project schedule deliverables, milestones, and go-lve dates in accordance with the Project Management Plan. Refine the project schedule with details of tasks, durations, phases, and assigned resources. Prepare regular schedule reports and schedule valance analyses mad schedule valance analyses teering committee. Complete assessment and revision of project schedule.	PRevise tasks, deliverable milestones, and go-live dates for all three phases. PRevise tasks, deliverable milestones, and go-live dates for all three phases. PRevise tasks, deliverable milestones, and go-live dates for all three phases. PRevise tasks, deliverable milestones, and go-live dates for all three phases. PRevise tasks, deliverable milestones, and go-live dates for all three phases. PRevise tasks, deliverable milestones, and go-live dates for all three phases. PRevise tasks, deliverable milestones, and go-live dates for all three phases. PRevise tasks, deliverable milestones, and go-live dates for all three phases. PRevise tasks, deliverable milestones, and go-live dates for all three phases. 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Content Management and Content Management system documentation delivenships. Phase 2 Julian and a distribution on a linead agregative schedule. It is unclear what the impact of the current DLIR and DataHouse task delays are on the overall timelines and if the revised golive datas are achievable. 01/25/22: Schedule management is one of the issues with the greatest impact to overall project proformance and success. The Phase 1 Content Management is achieved management task delays are on the overall timelines and if the revised golive datas are achievable. 01/25/22: Schedule management is one of the issues with the greatest impact to overall project proformance and success. The Phase 1 Content Management tasks are unprovements in schedule management typics. 02/24/22: The disert of avoit increases schedule issues for other phases, including Phase 1 Case Management practices are needed to monitor schedule delays and evaluate root causes. 02/24/22: The Phase 10 content Management practices are needed to monitor schedule delays. Dut Rat The Phase 1 Case Management practices are needed to monitor schedule delays. Dut Rat model schedule with the new schedule will be. The project tasm will need to finder what the new schedule will be. The Phase 1 Case Management practices are needed to monitor schedule delays. Dut Rat met 1 Case Management practices are needed to monitor sche		
Cost, Schedule and Resource Management	2019.07.PM1	Issue	High	Moderate	Indequate assigned project resources may lead to project pelosys, reduced project performance, or turnover of project resources.	Team Acculty was unable to evaluate resource workloads based on the project schedule information (effer to finding 2019/2017.M13); however, based on observations of the CKM Project tam, the DataBroue and DuR Project Managers appear to be over lasked. The DLR Project Project and understandbly does not have time to perform all of the tasks to properly manage the project or represent DLR during project excivities. DLR Broud in crease particulation in disign and development activities (effer to finding 2019.07.M002) but would not be able to with the current assigned resources. Resource management is included in the Project Management Plan and states that "resources will be provided based on project needs. This will prevised with DLD on a quarter blass." The Project State Reports provided by base, Anticipaed Charge Juricious Laboration Laboration the series and with DLD on a quarter blass." The Project to resource management is included in the Project Management Plan and states that "resources will be provided based on project needs. This will provide that the Database Quarty Particious Howeds, Tates Acculty and the courter assignment provided based on considering adding a project Coordinatore resource to assist with meeting minutes and getting deliverables out.	2019.07.PM14.R1 2019.07.PM14.R2	Reevaluate project resource needs and acquire additional resources. Prepare regular resource reports fo management the executive steering committee.	Perform project schedule updates for the alternative solution (refer to finding 2019.07.1701) and missing tasks (refer to finding 2019.07.M13); «Ensure resource levels and skill set a sign to assigned tasks. Consider including resource needs for unassigned tasks or roles. Consider including neources needed and estimated hours for upcoming project activities (e.g., design sessions, user demonstrations, or user testing).	Open -	Refer to prior IV&V Monthly Report for status updates before November 2021. 11.02021: The proposed timeline is not based on an analysis of available additional DUR project resources including area leads are needed to achieve the aggressive timeline. 12.02021: DUR is looking to onboard additional testing resources and procure additional data convenion resources. DUR housd also continue of assess other resource needs and explore other resourcing options. 01.02.522: Resource management is one of the issues with the greatest impact to overall project performance and success. DUR housdaid additional DUR program and the source of the issues with the greatest mapact to overall project performance and success. DUR housdaid additional testing and the program is the site with the greatest mapact to averall project performance and success. DUR orboarded additional testing and the program is the site with the greatest mapact to averall project performance and success. DUR orboarded additional testing and the program is the site with the greatest impacts on a program additional resources for UAT and is in the process of procuring additional resources. Resource engagement and ownenhip remains low. DUR should continue pursing resource management trategies. 10.222.222: Accury decreased the serviry rating from Level 1 Flight to Level 21.040darval to DUR is in the process of execuring three contracts that will provide additional business analyst and data conversion resources. 10.22.222: The contract tatus for the business analyst and data conversion resources is all lending.		

SSESSMENT				CUPPENT						EINDING				
ATEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	DATE	CLOSURE REA	SON
ystem Software, fardware, and ntegrations	2019.07.1T02	Risk	Moderate	Moderate	An unclear interface solution may impact the delay process and require additional effort to correct.	The Contert Management Design (version 1.0) document was approved by DLR on My6, 2019. Case Management is currently in the design phase and design documents have not been provided. Although the Content Management design document was completed and Case Management design is in progress, the exact interface solution has not been defined. The interfaces between Content and Case Management are integral to the auccess of the project and should be fully defined in design documents in accordance with industry standards. Due to the recent DHS development, the interface options will need to also be researched and analyzed depending on the alternative solution elsected. However, even prior to this development, DLR did not have a clear understanding of the interface solution as well as the complete technical solution. DLR all Had queetson about the interface solution		Document the interface solution and analysis.	Documentation should provide a clear understanding on the interface solution including the following: * How Saledroce will query the selected Content Management solution * How Files are uploaded to selected Content Management solution from Saledroce * How netadata is uploaded into Saledroce * Who is responsible for setup, configuration, and maintenance and the steps required for implementation * What are the costs associated for development and long-term maintenance	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21, 12/29/21, 01/25/22, 02/24/22, and 03/23/22: Interface requirements were raised during Phase 2 design sessions but the interface solution is still unclear. 04/26/22: DUR and DataHouse met with NCCI to discuss integration options and potential timing of NCCI changes. Accuity will continue to evaluate the interface solution.			
						regarding the technology, connectivity, batch vs. real-time, security, cost and maintenance of the proposed interface solution between Salesforce and Fielket. The interface solution balob de clearly analyzed, documented, mapped to project requirements, and communicated to DUR.	2019.07.IT02.R3	Verify the proposed interface solution will work.						
Juality Management and Testing	2019.07.IT05	Risk	High	High	Not having an approved quality management plan and assigned quality assurance resources may impact the quality of project deliverables.	The Caulty Management Plan foresion 0.1 was darlied by DataHouse or June 32, 019 but was not yte approved by DuR. The darli plan idi not include quality metrica, quality standards, or quality objectives of the opport and does not describe how quality control results will be documented or reported. Additionality, the Quality Assurance Lead dentified in DataHouse's BAFO is not assigned to the project tam at this time. As it is almost eleven months into the eCMS Project and several deliverables were already approved and may are pending approval, it is important for a quality management plan to be formalized and resources assigned to perform quality management activities.	2019.07.IT05.R1 2019.07.IT05.R2	Finalize the quality management plan. Perform quality management activities on previously approved o submitted deliverables.	DataHouse and DLIR should collaborate and agree on the quality management processes and metrics that will best serve this project. include quality standards or reference to specific criteria (refer to inding 2019 /2019/W03). tUpdate the project schedule to assign quality assurance resources (refer to finding 2019.07.PM14).	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21: No updates to report. 12/29/21: Content Management UAT performance metrics indicate a high ratio of reported issues to completed test cases. DLIR and DataHouse need to finalize their quality management Datas and quality metrics. 01/25/22: Critical Phase 1 Content Management UAT issues were addressed for go-live buit a number of pending issues are to be addressed port go-live. Duality review processes and quality metric thresholds are still undear.			
											the Phase 1 Content Management system including performance, reliability, functionality, and data. Qualty management processes should be reassessed to help minimize production issues in future phases. 03/23/22 and 04/26/22: DLR and DataHouse still do not have formal quality management plans. Quality metrics are critical for evaluating and monitoring project activities for acceptance and go-live readiness, which is especially critical for the upcoming Phase 1 Case Management go-live to prevent similar production issues experienced with Content Management. Accuity will continue to evaluate the quality management plan and activities			
onfiguration lanagement	2019.07.1106		Moderate	Moderate	A lack of a configuration management plan may impact the performance and quality of the system if unauthorized or unstated changes are promoted between environments.	plans to prepare a configuration management plan by October 11, 2019 Based on the curvet project plan, the CAS Project was supposed to begin the Build stage of Phase 1. Although the neement DHS development will help disp that start of the Build stage, not having a configuration management plan in place increases the concern that danages may not be properly tested, accepted and approved which may impact system performance or quality.		Develop a formal configuration management plan.	Configuration Maragement in Systems and Software Engineering and includes the configuration management planning process, configuration identification process, configuration change control process, configuration status accounting process, configuration auditing process, interface control process, and release management process. - Obtahouse and DLB should collaborate and agree on the configuration management plan purposes and processes that will best serve this project.	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21: DataHouse clarified that separate Case Management environments will be used for the different phases. Details of the configuration management plan including the management of concurrent development in needed. 12/29/21, 01/25/22, 02/24/22, and 03/23/22: No updates to report. 02/20/21. DataHouse provided an updated Case Management configuration management to include the Phase 2 SaleGroce environments. Additional details regarding a comprehensive configuration management plan are needed. Accurly will continue to evaluate the configuration management plan and approach.			
ecurity	20119.07.1107	rosk	ivioderate	Moderate	Not having an approved security management plan place may impact the security and privacy of the data.	The Security Management Plan (version 0.0) was prepared by DtaHoux on June 3, 200 Net was not yet approved by DtLR. Based on the current project plan, the cCMS Project was supposed to begin the Build stage of Phase 1. Although the recent DKS development tail likely deligs the start of the Build stage, not having a security requirement and may preclude the adequacy of the system to support the data needs of the system. Security controls should be defined in the security management plan and implemented as part of an organization wide process that manages information security and privacy risk.		Ensure the security management plan meets specific standards. Finalize the security management plan.	Consider the industry standards and best practices above. Potatrious and DLB should collobards standards that will best serve this project.	Open	Refer to prior IV&V Monthly Report for status updates before November 2021. 11/29/21: DLIR and DataHouse agreed that turnover of the systems will be at the end of all three phases. M&O roles and responsibilities and the related security management plan during the interim period between go-live and system turnover need to be further clarified. 12/29/21: No updates to report. 01/25/22: DLIR and DataHouse documented critical security tasks in the gb/ho-go checklust. D2/24/22: DataHouse completed the disaster recovery plan pending DLIR's eview and approval. D2/24/22: DataHouse completed the disaster recovery plan pending DLIR's eview and approval. D2/24/22: DataHouse completed the disaster recovery statem operation as well as the upcoming Phase 1 Content Management system operation as well as the upcoming Phase 1 Case Management pol-live. Accutivy will continue to evaluate the security management plans and documentation as they are finalized.			

ASSESSMENT			ORIGINAL	CURRENT						FINDING		CLOSED	
CATEGORY Data Conversion	2019.09.IT03	TYPE Risk	Low	Low	Case Management may impact the	An Used Tak was originally reported in the September 2019 N&V Monthly Report as a perliminary concern but is upgraded to a risk in this report. The current case management system, BM to Usak Netse Donnis, is on longe supported. The product was sold by IBM to HCL Technologies, an indian IT company. DUR's licenses for the product ended in June 2019 and DUR is unable to renew the licenses as HCL Technologies is not as Bute Procurement Office (EPO) compliant vendor. This system will be replaced by the CMS Case Management solution which was scheduled to golve in November 2020 but this was tentatively publied back to June 2021. Any major issues with the current system may impact the data conversion process leading up to the go-live date and potentially the overall system development.		RECOMMENDATION Explore options for obtaining support.	SupelENTAL RECOMMENDATION Consider workshow IETS or other State agencies still using Lotus Notes to get vendor approved and support contract in place.	Closed	PAIDNO STATUS UPDATE Refer to prior IVW Monthly Report for status updates before October 2021. 10/26/21, 11/29/21, 12/29/21, 01/25/22, 02/24/22, and 03/23/22: No updates to report. 04/26/22: DUR has a resource who supports the IBM Lotus Notes Domino system.		Closed as DIR accepts the residual risks and two supports the residual risks and who supports the system.
Project Organization and Management	2019.09.PM01	Issue	Moderate	Moderate		The Project Maragement Plan (venion 1.3) documents the change management process that includes Change Requests, impact assessments, and a Change Log. The change to AWS (refer to finding 2019/JTIOI in Appendio D) and there version of the Content Management go-live date were approved by DIB but not documented in Change Requests or a Change Log. Additionally, the change management process dees not have built in mechanisms to ensure that impacted documents are updated for the changes are appropriately communicated to impacted stakeholders.	2019.09.PM01.R1 2019.09.PM01.R2	Document changes in Change Requests, with an impact assessment, and the Change Log in accordance with the Project Management Plan.	Consider setting thresholds or criteria for changes that go through	Closed	04/27/21 and 05/27/21: No updates to report. 06/25/21: DUR plans to combine all the pending Datacap related change requests into one change request related to the new Encapture solution. 07/27/21: Datalouse drafted the new change request to document the autich from Datacap to Encapture, however, DLR has not yet approved the Management timeline. DataFourts should also document the resulting project schedule change for Plans 18, 2, and 31 in a formal change request at prescribed by the Project Management Plan.		Although change negaests do not document change in detail and change neguests are not used to document major schedule changes, the current change management process appears to work for the project.
								process for greater clarity and effectiveness.	different approval processes. "Define the different approval processes (e.g., project manager, product owners, change control board, steering committee). "Implement additional columns in the Changle Log to ensure updates are made to all impacted project plans, documents, or deliverables and changes are communicated to all impacted stakeholders.		08/25/21 and 09/28/21: The Content Management change request is pending DUR approval. 10/26/21: Accuity decreased the severity rating from Level 1 (High) to Level 2 (Moderate). Although the details of the change request to awitch from Datacap to Encapture were not updated. DataTouse do Update the Content Management design deliverable to document how the replacement solution will address since of the gaps identified in feedback and issues from the previous Content Management solution UAT. DLR agreed that this approach would dense that leak of details in the change request. Additionally, schedule changes continue to not be documented in formal change requests. However, DLR and DataHouse do present the high-level timelines to the ISC for approval. 11/29/21 and 12/29/21: No updates to report. 11/29/21 and 12/29/21: 11/29/21		
Oxalip/ Management and Testing	2020.02.0701	Risk	High	Moderate	and does not adequately inform DLIR of the testing approach and scope which may impact the execution of testing activities.	Distribute drafted the Test Han Vession 0.0, pending DLIB review and approval. The test plan is incomplete (e.g., performance, load, usune, XMS environmenta). "The storing approach differs from DataHouse's Best and Final Offer (BAC) (e.g., regression testing, test-driven development (DDB). "The storing testing does not address all security requirements outlined (BAC) (e.g., regression testing, test-driven development (DDB). "The storing's testing does not address all security requirements outlined testing testing does not address all security requirements outlined testing testing does not address all security requirements outlined testing testing testing types, submission testing tools, test data requirement, data scrubbing procedures, metrics for test cases and coverage of code). "The set tasks included in the project schedule are incomplete (e.g., "The test tasks included in the project schedule are incomplete (e.g., "The test tasks included in the project schedule are incomplete (e.g., "The test tasks included in the sequences tasks)." "The test tasks included in the sequences that tools testing tools." December test deliverables and unclear delivery (e.g., missing a test delivered through the requirements traceability matic, (RTM). "The are an odified test management monitoring and control processes acqueates performed. Additionally, a test of must underschedule de delivered through the requirements traceability matic, (RTM). Ack of clarky of DataHouse's testing approach may not allow DLR to andequate test management processes could impact the execution of testing activities.	2020 02.1701 92	Clarify the test approach. Develop adequate test management processes and procedures.	endrome a deliverable review (order to finding 2019 07 PM03) to ensure DRI understands the test pian and scope. *Consider making improvements to the test documentation. *Consider making improvements to the test documentation. *Consider making improvements to the test documentation. *Consider a process for monitoring and reporting test status and results. *Consider a process for authorization of test data.	Closed	teler to prior IV&V Monthly Report for status updates before April 2021. 04/27/21, 05/27/21, 06/25/21, 07/27/21, 08/25/21, and 09/28/21: No updates to report. 10/26/21 and 11/27/21: Clarification of the test approach and plans for Phase 1 Content Management performance testing is needed including roles and responsibilities, task and the process for baseline performance metrics collection. 12/27/21: Database confirmed that they are not responsible for performance, load, stress, or failorer/recovery testing. DataFouse also clarified they will will be reflected in the same system tasting and will be reflected in the same system tasting participatem testing and will be reflected in the same system tasting parts will be reflected in the same system tasting parts will be reflected in the same system tasting parts will be reflected in the same system tasting parts will be reflected in the same system tasting parts will be reflected in the same system tasting parts will be reflected in the same system tasting parts of the same system tasting parts may be apprecised by the same system tasting parts of the system tasting parts of the same system tasting parts of the system tasting parts of the same system tasting parts of the	12/29/2021	Closed an DLIR accepted the risk related to Databases sharined scope of their testing and how Database testing results will be provided to DLIR.

ASSESSMENT	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
System Software, Hardware, and Integrations	2021.03.IT01	lssue	High	High	Ongoing Content Management technical issues and solution analysis are causing project delays.	various system analysis due to Phase 1 Content Management UAT technical issues and user feedback. In Mach 2021, DataHouse presented three options to the ESC for the Content Management solution including an option to replace and redevelop the Content Management scanning and data servation component. DLR is currently evaluating the options presented by DataHouse. DLR Planned to hold a merciel ESC measuring on Mark as 27011 to make a despine neurrino	2021.03.IT01.R1	identify all major gaps in current solution.	Review the reported issues/defects in the UAT quality log, close recoved antime, and dentify unresolved agas. •Review to their project documentation and perform further system review to identify other major gaps. •Assign risk/criticality ratings for each identified gap.	Closed	D427/21: DataHouse is still working to investigate and address ongoing technical issues. DBIC continues to evaluate the options presented by DataHouse and began to review unresolved issues from LMT to perform their age analysis. DLIR needs to work with DataHouse to swiftly complete the analysis. DLIR needs to work with DataHouse to swiftly complete the analysis. 05/27/21: DataHouse is still working to address Datacap issues requiring free. DLIR and DataHouse apred on a tentative plan and inference of tasks.	11/29/2021	DLIR will not be preparing a formal and comprehensive solution analysis, however, this finding is closed as the solution analysis is captured in the ESC presentation, the updated Content Management design deliverable, and the Encapture architecture and
						the Content Management solution but postponed this in order to allow more time for addinoisa anaysis. The Content Management golves was postponed several times due to ongoing analysis and could potentially dially the golve for several month more. It is critical for DBR and DataFouce to work together to timely and thoroughly complete analysis and agree upon how to proceed. In addition to the specific recommendations made as a part of this finding, the 1V8V commendations made a finding 2001.21(70), 2019.07.PM10, and 2019.10.PM01 will also help to address this issue.	2021.03.ITO1.R2	Complete the analysis of solution options.	<ul> <li>Database should provide additional clain(station and demonstration of the functionality to be provided by each of the options as in relates to the stand-alone. Content Management solution and the integrated Case Management solution. This will help DLR to understand the comprehensive solution and to identify limitations that are only temporary unit additional inpotions are needed based on the completed limitation of individuality-acide major gate.</li> <li>Canader II additional options are needed based on the completed limitation of individuality-acide major gate.</li> <li>Canader II additional options are needed based on the completed should be added and and a solution of the solution (project) dividuality of the solution of the solution (project) and added and acide and evenestic (PCO); and impacts to the implementation plan and users.</li> </ul>		In reach a decision regarding the Content Management solution by July 2021. 00/25/21: DUIR made the decision to replace and redevelop the Content Management scanning and data extraction component. DUIR is still in the process of gathering additional information to finalize the solution and gap analysis. 02/27/21, 02/25/21, and 09/28/21: Completion of DUIR's Content Management solution analysis is still pending. 10/26/21: A solution analysis is still pending. 10/26/21: A solution analysis is still pending. 10/26/21: A solution analysis is still pending. Content Management Content Management system addition will address gathering to decimate the version of the gathering and prior solution. However, DataHouse did update the Content Management design deliverable to document how the replacement solution will all also be addressed by the replacement solution will all also be addressed by the replacement solution all also be addressed by the replacement solution 11/29/21: DataHouse provided an architecture and workflow overview of the Encapture solution and confirment that DataHouse Incinnal testing verified that the prior Content Management solution addressed with the replacement solution. DataHouse plans to monitor and test performance of the replacement solution.		workflow overview meeting. The origing technical issues related to the Encapture replacement solution are not tracked in an IV&V finding as these are already tracked in the testing logs.
Project Organization and Management	2020.03 PM01	lesse	High		project execution although the extent of the impact to project costs and the	Inmely completion of the project and its cost. Understandably, DLIR has diverted project resources to the UI Division to respond to the skyrocketing number of unemployment claims. This finding focuses on the impacts of COVID-19 specific to the eCMS Project. The following is a summary of the related events and facts: = All eCMS Project meetings were cancelled beninning March 12, 2010	2020.03.PM01.R1	Explore possible ways to keep the project moving forward with available resources.	Evaluate DLRS.MES availability and bandwidth to work on the project. Consider read/ining of user stories in current and upcoming sprints and how to best utilize available DLR SMEs.     "DataHouse and DLR, with input from the ESC, must come together to decide on how to best proceed.     "Catefully assess the sharkon and individually log all of the specific impacts to the project in the risk register, including direct and indirect impacts.     "Evaluate alternative courses of action and contingency plans for each texpecific impact identified.     "Consider adjusting the frequency of communications and reviews of mapping plans to support the pace of evolving circumstances.     "	Closed	Refer to the June 2020 TV&V Monthly Report for status updates prior to July 2020. 07/29/20: COVID-19 continues to impact the availability of DLIR project resources. A few of the DLIR project resources, including the DLR Project Manager, returned to the project on immeta basis and additional DLR project resources are expected to have some availability in the upcoming months as DCB employees are slowly transitional back from the UL Division that the project resources and availability of the project processes including schedule management (2019 07. PMI3), resource management (2019 07. PMO9), whate management (2019 07. PMI3), resource management (2019 07. PMO9) will better position the project to handle and adjust to change significant and the project to handle and adjust to change significant and the project to handle and adjust to change significant and the project to handle and adjust to change significant and project moving for PMI01), and these 2 activities. Additional to project moves and adjust to change significant and project to handle and adjust to change significant and indicated angle to change and adjust to change significant and a longe of againing the pAIN for of uncertainty with regards to DLR project resources and possible work/rom. theme arrangements: Actes understanding to intended project activities as well as contingency plans for key project resources and possible work/rom. theme arrangements are essential to change and possible work/rom. theme arrangements are essential to divise project moving activities report. 2023/21, 10/24/21, 04/27/21, 20/23/20, and 01/26/21: No updates to report. 2023/21, 10/24/21, 04/27/21, and 05/27/21: DLR and DataHouse should contrade the continuing inpacts the COVID-19 pandemic with have on the availability of DLR project resources as a part of the upcoming Content anagement analysis and decision and while reporting theory project possis and protines. 2023/21, 10/24/21, 04/27/21, and 05/27/21: DLR and DataHouse should containes nec	6/25/2021	Although there will continue to be impacts of the pademic on costs, schedule, and resources, Acculy will continue to monitor these under the other existing findings (2016 07 PM0.2 (2017 07 M12, 2019 07 PM 13, and 2019 07 14).

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ASSESSMENT	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	DATE	CLOSURE REASON
Project Organization and Management	2020 08 PMOT	Ruk	Moderate	Moderate	Inadequate planning and lack of a detailed project schedule for Phase 2 may impact the execution of Phase 2 activities and result in delays.	DataBook's updated project management plan and project schedule was scheduled for completion in July 2007. The task is not yet completed and there is no estimated imeline for completion. Some of the datals of the Mase 2 planning were vhally discussed including DataBook's deliverables, assigned resources, and general approach, however, additional planning is needed. The current project management plan was last updated in August 2019 and many of the processes are outdated or need improvement (2020 0.7 M01). Additionally, the eCMS Project is now operating under completely different circumstance due to the CUND-19 pandemic (2020 0.3 M01). The following are some of the project management plan details that are updated or need improvement. White Ministry and the project management plan details that are process for reshving scheduling confile. However, additionally, scheduling controls, planes 1 or Phase 2 tasks; process for reshving scheduling confiles. However, additionally scheduling confiles. However, additionally scheduling confiles. However, additionally and the completely individual particular distributions and project schedule with Phase 2 tasks; due dates, and required resources ability to work remotely including access, quipment, and schedulogs. How the Content Management and Case Management components for Hower and extensibilis for Phase 2 DataHouse and DLR project team members. 4 Jupdated process for project communications for identification of Phase 2 Internal and extensil staleholders; alternative communication channels and generation stale and staleholders alternative communication channels and projects for project communications for identification of Phase 2 Internal and extensil staleholders, alternative communication channels and programming are critical for anticipating changes and minimizing impacts to the project.	2020 08 PM01 R1	Complete Phase 2 planning.	Ensure mutual understanding of Phase 2 plan and approach between Dotatious and to UR.     Provide adequate details of Phase 2 in the project schedule.     Consider building contingency plans for COVID-19 into the project management plan and processes.	Closed	07/23/02. DataHouse updated the project management plan to include some additional delais regarding Project enangement processes (e.g., performance metics, a motioning DLR project resource workloakk, resolving conflicts, or priorities for phase), contingency plans, and the project schedule are still needed. 10/23/20: DataHouse and DLR discussed and clarified project management processes. In general, project performance metics are not collected or manage and monitor project performance. DataHouse and DLR discussed processes. In general, project performance, DataHouse and DLR datrified processes for resolving conflicts or changes in resource autibuity and provers for phases. DataHouse has not yest added the datalet data for a more specific project information (e.g., features, number of epics) is determined.	10/23/2020 ,	Closed as Dual+bouse and DUR discussed project management processes. The need for a more detailed Phase 2 project schedulus and improvements in project management processes will contrus to be monitored under the 2019 0.7 MM18 insdequate 2019 0.7 MM18 insdequate Resources, and 2019 0.0 PM102 Resource Management findings.
Project Organization and Management	2020.02.PM01			N/A	The DataHouse Care Management development train works any collaboratively with DLR and demonstrates commitment to continuous improvement resulting in smoother project execution and increased transparency.	The Soum methodologie employed by the Dathouse Case Management chargement as in inherently periodics collaboration, departormunication, transparring, and process improvement through built in daily stand, and recorporchism meetings. Over and above this, the Case Management development team members don't just go through the exercise of Sourium meetings burrally embases the spirit of the methodology. The Case Management development team members have: Worked closely with DLIR subject matter experts GMEst to ensure user and busines needs are thoroughly understoid. #Encouraged DLIR SMEs to railly explore opportunities for business process improvements. "Openity communicated solution options including rationale for optimal solution can help to achieve business process improvements for DLIR. "Listened to feedback from DLIR and thereful small example us project processes (e.g., user stoy approval process). "Denomitated gouries committen to the success of the project." This approach has helped DLIR team members to build a high level of comfort with and understanding of the Case Management solution and the combined to a smoother execution of the Case Management part of the project.	NA	N/A for positive findings.	N/A for positive findings.	Closed	NA		Closed as this is a positive finding.
System Software, Hardware, and Integrations	2019.09.0701			N/A	adaptive response to issues and rinks minimized impact and further delays to project development.	Any members of the Dastouse team have contributed to the clickning successe: second a replacement Content Management houting infrastructure successes and the second se	N/A	N/A for positive findings.	N/A for positive findings.	Closed	NA		Closed as this is a positive finding.
Governance Effectiveness	2019.07.PG01	Positive	N/A	N/A	The DCD Executive Sponsor is highly engaged and plays an active and visible role in guiding, monitoring, and championing the eCMS Project.	The DCD Executive Sponsor's close involvement in the project has provided strong learnhy that has to an extent, compensated for the lack of formal governance (refer to finding 2019 0/07.PGO2) and other project deficiencies noted throughout his report. However, as importan as good approschip is, this factor alone can not be relied upon to guarantee project success.	t	N/A for positive findings.	IVIA for positive findings.	Closed	NA	9/20/2019	Closed as this is a positive finding.

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Governance Effectiveness	2019.07.PG02	? Risk	Moderate	N/A	The lack of a formal executive steering committee and change control board may limit the effectiveness of project governance.	The DataHouse propoal and Project Management Plan Cension 1.2) make references to astering committee, however, a format committee was not chartered. Currently, the DCD Executive Sponsor is assigned the authority in the Project Management Plan to approve all project charges.	2019.07.PG02.R1	Assemble and formalize an executive steering committee.	The size and welection of committee members should balance the expresentation of key stakeholders with the need for efficient decision making. Formalize the committee mission, responsibilities, and the types and the thresholds of decisions that need committee approval in a sterring committee charter. Foruder the need or ease of creating a change control board with a subset of the committee for certain types of decisions.	Closed	09/2019: Accuity decreased the severity rating from Level 2 (Moderate) to Level 3 (Jow). The eCMS Executive Steering Committee (ESC) was assembled and held its first meeting on September 13, 2019. Members were informed of the committee's purpose, roles, and member tasks; however, the types and thresholds of decisions that need committee approval or attention was not formalized. The next meeting is scheduled for October 11, 2019. The October 11, 2019 ESC meeting was effectively run by the OC Project Sponsor to discuss key risks and tasks and to align the eCMS Project direction with OLIR and ETS stategic objectives. The thresholds for decisions that require committee attention were also established.	10/25/2019	Closed as the eCMS ESC was formalized.
Governance Effectiveness	2019.07.PG03	i Risk	Moderate	N/A	The unclear DataHouse contract tems may limit objective evaluation of contractor performance and contract fulfillment.	The procurement of the System Integrator (SI) for the aCMS Project was performed by DIRE DPS and nerviewed by FLS. The RPF and DataHouse contract does not clearly outline expected deliverables. And early and the comparison of the second	2019.07.PG03.R1	Evaluate the need for a contract modification to clarify contract terms.	Consider including lay project documents as deliverables such as a equirement management plan and equirements tracadellity matrix RTM (feet no finding 2019.07.PMI 0), risk and suese log (refer to finding 2010.07.PMI0), and testing documentation. "Consider including acceptance criteria based on industry standards, the example, the acceptance criteria actual be compliance with Institute requirements tracability matrix (refer to finding 2019.07.PMI0). "Consider including mesurubels success metrics (refer to finding 2019.07.POIDS, "Consider the need to outline roles and responsibilities between DLIR and DataHouse (refer to finding 2019.07.PM02).	Closed	09/2011% DLR has decided to address his finding through updates of project plans. Databuse has shown an openness to develop and continuously improve project deliverables including project plans. Roles and responsibilities hav been more openly discussed and plan to be incorporated within project plans. Furthermore, success and quality metrics are being darled which will also be an additional method for evaluating contractor performance and fulfilment.	9/20/2019	Closed as DUR will address through project plan updates. The need for clarification of roles and responsibilities as well as acceptance criteria and success metrics will continue to be project Organization, 2019 02, PM03 Deliverable Review, and 2019,027105 Quality Management Endings.
Governance Effectiveness	2019.07.PG04		Low	N/A	The lack of guidelines, checklists, and shared project assets may reduce project performance and efficiency.	Large IT projects are not a regular occurrence for many State departments. Other lines project recovers are assigned from within the departments that have valuable organizational and operational knowledge but don to have the necessary project management esperience. Having guidelines and checklists and access to project documents from parts State projects would greatly benefit even especienced project teams. ETS, as the State of Hawai's IT oversight effice, is in the best position to gather project assets and put forth guidelines.	2019.07.PG04.R1	Initiate conversations with ETS to discuss DLIR IT and project support needs and responsibilities.	Process what resources, guidance, and shared project assets would be most helpful to DLR. Process what project assets DLR can provide to contribute to the development of a centralized project management filtrany. Consider involving the project steering committee to align and clarly. ETS vs. steering committee governing roles.		09/2019: ETS began sharing best practices and lessons learned with DUR including taking the DUR Project Manager to sprint meetings for another State project. ETS is a member of the newly formed cCNS Executive Stering Committee (ESC) and will use that vehicle to share lessons learned with DUR. Additionally, DUR is forming a DUR TS stering Committee to provide oversight to ID UR IT projects. The DCD Executive Sponsor is a member of that DUR committee and plans to share eCMS lessons learned and project templates with other DUR IT projects.		Closed as discussions occurred with ETS and the risk is adequately mitigated with the planned course of action.
Benefits Realization	2019.07.PG06	i Risk	Low	N/A	Failure to align statutes with the eCMS Project modernization objectives may reduce the operational improvements that are achieved.	The eCMS Project's primary modernization objective is to move to a paperless and automated buiness process. The new system is being designed to allow for electronic filing, routing, and tracking of forms. However, current disability compensation statusts have not been revised to require that these forms are filed electronically by law. As such, manual paper forms may continue to be submitted by external users such as damants, employers, and insurance companies. As the development of a poul for public filling will not begin until Phase 3, this risk is not as imminent. However, as the evaluation of potential impacts, collection of feedback from stakeholders, and the legalates process to amend statuse is a long process, the initial planning should begin as early as possible on a not to potpone or reduce the realization of the benefits from the new system.	2019.07.PG06.R1	Develop a plan and timeline to amend the statuse to align to project and organizational objectives.			0%201% In 2016, DLIR convened a Working Group (WQ) consisting of representatives from various DCD-related stakeholder groups. The WG provides an avenue for DLIR to understand stakeholders' concerns and a forum for the stakeholden is to understand stakeholders' concerns and a forum for the stakeholden is understand the DLIR business process improvements including the need for statutorily mandated electronic claim fingas. DLIR plans to draft statutory changes to mandate electronic filing in PY2022 (effective July 1, 2023). This timeframe was decided on as it allows DLIR to proactively involves takeholden in testing production and provide stakeholders the appropriate time to ready their systems for electronic filing.	9/20/2019	Closed as DUR has a plan to align statutes with eCMS Project objectives.
Organization and Management	2019.07.PM01		N/A	N/A	The DLR Project Manager is a deciliaared project lead who works collaboratively with internal sakeholders.	The DLIR Project Manager is hardworking and has continually downstratical defactation is the project and an exignment to learn. Additionally, the DLIR Project Manager has some of the necessary address of the second second project manager. Here positive sature and collaborative approach develops tract with and statisfies concremes of many stream stateholdress. This has mitigated some of the communication and OCM risks (refer to finding 2019 07 PMO) and DLIR employee assigned to the eCMS Project and there is not a sufficient manuant of project resources (refer to finding 2019 07 PMI4) to properly manage the project.	N/A	N/A for positive findings.	NVA for positive findings.	Closed	N/A	9/20/2019	Closed as this is a positive finding.
Organization and Management	2019.07.PM04		High	N/A	of intent between DataHouse and DHS. Furthermore, he eCMS Project advanced for 10 months without a formal MOU between DLR and DHS and reliance on the DataHouse Project Sponsor to lead the discussions due to her experience with DHS.	Inerage DFS's IBM FileNet environment, however, there was no written agreement between Datalousa and DFS that supported DFS intent to support shared services. Once the eCMS Project was underway, the MOU docusations with DFS were primarily led by the Databationse Project Sponsor. The eCMS Project advanced for 10 months without finaliang the MOU between the DFS and DLR. As the proposed solution is no longer viable due to the recent DFS development, an alternative solution must be determined (jetter fording 2010 2012 CTO) and proviously accepted or drafted deliverables may need to be updated. Although the eCMS Project will not be also to ultize DFS's BM FileNet environment, the project still plans to leverage DFS's enterprise licenses for FileNet and messasy agreements to ensure that the alternative solution is viable and prevent furthe eldeps.	2019.07.PM04.R1 2019.07.PM04.R2 2019.07.PM04.R3	Finalize the MOU to leverage DHS' enterprise licension of FileNet and Datacap. DLIR should lead all discussions and negotations of vendor contracts or agency agreements. Identify and complete all critical tasks prior to moving forward with an alternative solution.		-	09/20179: The MOU with DHS for Datacap and FlieNet learness is close to being finalized. DBI Reveixed adress from DHS on September 17, 2019 and it was sent to the Attorney General's office on September 17, 2019. Accuity has observed that DUR has led the contract discussions and negotiations with AWS.	9/20/2019	Closed as the MOU with DHS is in process to be finalized and DLR is leading contractor negoslations. The recommendation to isidnify and critical tasks will continue to be monitored under the 2019 07 PM13 Schedule Management finding.
Project Organization and Management	2019.07.PM05	5 Rrsk	Moderate	N/A	A lack of clarity on Databoue's development methodology may not allow or adequately prepare stakeholders to participate readily.	Distributes is using a modified Aplie development methodology that is enfered to as VMxerCounFailt. This is a combination of the watefaill and Aplie methods that defines the full set of enguinements at the beginning but uses Aplie user stories and optims while building the software. Based on the current project plant, the eCMS Project was upposed to begin the Build stage of Hware 1 and transition to the Scum methodology. Although the recent DHS development will likely delay tacksift of the stage, there are a number of concens regarding the transition to the Scum methodology. The project schedule also does not yet reflect the agle sprints cycles or dentify resources who are expected to participate. "There have not been communications with the DUR project team and stakeholders regarding the Scum methodology or the roles and reportabilities they used using this stage of the project.	2019.07.PM05.R1 2019.07.PM05.R2	Formalize an approach for executing Scrum phases. Communicate the approach for executing Scrum phases to all lease	Consider industry best practices for Agile methodologies such as retropective, adjustandup, humom chatts, and frequent user demonstrations and feedback. •Establish the backlog peparation and refinement process. •Establish virtual conferencing tools and communication protocols for geographically detributed team members. •Ster the number and length of the sprints. •Lipdate the project schedule for sprints. •Lipdate the project schedule for sprint activities and axign resources inder to finding 2019.07. PM 14). •Include clear and dealled procedures and moles and mesonabilities for Sorum tasks (refer to finding 2019.07. PM02). 2019 07. PM02).		07/20176. Accuity has kept the severity rating as Level 2 (Moderate), Athough Dathous has incorporated the Caak Management sprint schedule into the overall project schedule and provided a high-iterel overwier of the regimerensivice stress to be covered by each sprint, rotes and responsibilities still need to be clearly defined and communicated. The Case Management development taxes and provided and acceptance circle and responsibilities still need to be clearly defined and communicated. The Case Management development taxe and protoited, and acceptance circles during the next user review and Epic 2. The Content Management development taxes in follows a sensing lerores and darked an overview decument of the team's change management practices. 10/25179: The Case Management development taxm held a training for the DUR Poduct Owner top provide an overview of the Scrum methodology and the Product Owner role and responsibilities.	10/25/2019	Closed as the Scrum methodology has been formalized and was communicated to the DLR eCMS Product Conners. The recommendation to communicate the methodology oal il impacted stakeholders will continue to be monitored under the 2019 07 PN07 Stakeholder Communications finding.
						responsionines are ynwe oaning ans sage or are project. • Many of the DataHouse project team members work remotely and are unable to work on-site.		members and impacted stakeholders.					

		TVDE			EINDIAIC			RECOMMENDATION		FINDING		CLOSED	
Suffeets Process Reengineering	2019-07-PM11	Risk	Moderate	N/A	Not deminippe and addressing BPR when deminishing provide the system design and development may require additional effort to correct.	There is no formal plue for BPR extinities. Diabteuant's approach to BPR there are not infinite accrease transpress rate, suck thread the process with atshchders, and make updates to the processes range. As a result the process and the process rate, suck thread the processes were improved for change, not caused were addressed, or processes were improved (e.g., elimination of ework loops). Buartess process improvement is a key deliverable clientified in the RPP and in Diabfouse contract. The Diabfouse contract tables that he key deliverable will be manifered through frame through put of data into and contract do not clearly utentify how may be the and contract do not clearly utentify how the deliverable will be supported, evaluated, or accepted by DLR (effer for finding 2010/PTROS). There should be clear documentation on how the new solution plans on measuring and achieving key business process improvement proferomance galas. The NRV recommendations made at 2010 07 PCOS 81, 2010/PTROS). The 2010 07 PCOS 81, 2010/PTROS and 2010 07 PCOS 81, 2010/PTROS 81, 2010/PTROS 2010 07 PCOS 81, 2010/PTROS 2010 07 PCOS 81, 2010/PTROS 81, 2010/PTROS 2010 07 PCOS 81, 2010/PTROS 2010 07 PCOS 81, 2010/PTROS 81, 2010/PT		opportunities in a log.	The log should be used to plan PMP and design activities and to develop content for communications and training.	Closed	2020/19: Accur) has kept the severity rating as Level 2 (Moderate) as a program of the severity rating as Level 2 (Moderate) as a program of the severity rating as a constrained of the severity rating bas not been created. 10/25/19 and 11/22/9: BPR opportunities continue to be discussed during sprint sessions, however, identified opportunities are not formally tracked. 12/20/19: The Case Management user story tracker tool identifies which user stories resulted in BPR.	12/20/2019	Closed as use stores are uniting in significant to can be identified for communications and training.
System Software, Hardware, and Integrations	2019-07-1101	Issue	High	N/A	The original solution proposed by DataHoue in their BAYO to leverage the existing DIS-Releven hours infrastructure is no longer a feasible solution.	There are a number of items in the DataHouse BAFO that are no longer feasible based on the inability to leverage the existing DHS FileNet environment. Under the original solution, DHS would monitor and maintain the entreprise IBM FileNet environment. As DHS will no longer the solution of the solution of the solution and maintain the entreprise IBM FileNet environment. As DHS will no longer permise installation to take on the monitoring and maintaineance of the IBM FileNet infrastructure. As DataHouse recommended in the BAFO the on- mential State network, DLR should be provided with a technical analysis of various solution options that includes a comparison of the alternatives on performance. Although this issue relates to the proposed housing infrastructure solution for Content Management, this is an opportunity for both DataHouse and performs sufficient analysis regarding possible alternatives on performance and decisions. It is important that thorough analysis and adaguate due diligence to perform the alternative diligence before making any decisions. It is important that thorough forward in the project in order to avoid further project delays and to exercise that development will meet operational and atakeholder requirements.			Consider solutions that could include other technical applications that could suitile a different choice of methodology using different tools, provide a charger solution for the longertem, and faster implementation. Bio Methods and the solution of the long 20 comprisition alternatives and the solution of the long 20 comprisition and the content-manager/competitor/alternatives. Additional research could result in more steraistice brinds go comprisition alternatives and the solution of the alternatives solution to project cost, schedule resources, security, maintenance and operations, system software. Additional responses to the solution to project cost, schedule resources, security, maintenance and operations, system software. Additional responses are applied with screen software for completion, and timing. Considerations project cost includes costs related to the following: * Alternance and operations and ender thermatic solution. * Instrang system and database management licensing * Maintenance and operations and related to the following: * Alternance and operations and related to the resources include: * Alternance and operations and related to the resources include: * Alternance and operations and related to the resources include: * Anomation contains the and enderly related to the resources include: * Persensing stream and database management * Partices include: * Comparing maintenance and operations (patching, updates) * Personance of security assessments * Change and contiguation management * Partices and the solution in the solution of software and resources include: * Panagement on the solution in the solution of software and resources include: * Panagement on the solution in the solution of software and resources include: * Pan	Closed	09/2019: In July 2019, DataHouse presented AWS as a potential alternative solution. The proposed AWS solution was compared to another cloud solution, Mixroofi Azure, in repetts to cost and performance. DataHouse reviewed the listing of content management solutions provided by operative reviewed the listing of content management solutions provided by operative reviewed the listing of content management solutions provided by operative reviewed the listing of content management solutions provided by operative reviewed the listing of the solution of the solution the replacement hosting inflastructure solution effectively remediating the inability to leverage the DHS Fielekt environment issue. Accutly had also recommended that a comprehensive technical analysis be prepared on the enplacement solution; however, DLIR decided not to formally document the analysis as they are comfortable with the selection based on reading of AWS whitepapers, the information provided by DataHouse, and discussions with ETS and EDPSO.	9/20/2019	Closed as a replacement solution was approved by DLR. As a comprehensive analysis was not prepared and there is still a meed regarding certain sectors of the replacement solution, Accuity will continue to monitor plans for AWS security under finding 2019.07.1107.AVS M&O roles and responsibilities under the new preliminary concern 2019.0.1102, and AWS costs under finding 2019.07.FM12.
	2019.07.IT03				The Content Management design documents were based on incomplete, inaccurate, and outdated requirements.	documents Tave not been provided. The Content Management Design (wrisen 1.0) approved by DLR on May, 2019. The recent DHS development will require design documents to be updated after an alterative. Content Management hosting infrastructure solution is selected. However, even prior to this development, the Content Management design documents were diated based on requirements documentation that is incomplete refer to finding 2019 07 rMI(0). The requirements document selectual bar emerglated immediately and the design documents updated accordingly.	2019.07.IT03.R1	design documents.	Consider updates for revised requirements documents (refer to finding 2019/07.PMI0 and for the alternative Content Management hosting infrastructure solution (refer to finding 2019.07.IT01).		09/20179: Accuity decreased the severity rating from Level 1 (High) to Level 2 Moderato, Deathouse updated the Commer Management Design Document to include additional, more detailed requirements. An order above at finding 2010 /PH10, Dashbours is in the process of updating the requirements documentation to include all requirements from the DataHouse contract. DataHouse contract.		Management design documents are regularly updated as changes to requirements are made. The completeness of the design with respect to contract requirements will continue to be monitored under the 2019 0.7.PM10 requirements finding.
Data Conversion	2019.07.1104	NUSK	Moderate	Ν/Α	A Content Management data conversion plan hat is based on incomplete, naccurate, and outdated requirements mix pinoz the data migration design process and require additional effort to correct.	Case Management is currently in the design phase and data conversion and Migration (version 0.0) document was digited by DaaHouse on Juan 3.2019 but was not by et approved by UDIR. The document was drafted based on requirements documentation that is incomplete (refer to finding 2019 CPUR). Furthermore, the Content Management Conversion and Migration (version 0.0) document included a risk that Conversion and Migration (version 0.0) document included a risk that Conversion and Migration (version 0.0) document included a risk that Conversion and Migration (version 0.0) document included a risk that Conversion and Migration (version 0.0) document included a risk that cause additional effort to re-factor the migration design procest. As data conversion is the process of converting data from one source to suit the system requirements of al andrefie for Inding 2010 ZPM (0) should be remediated immediately and the data conversion plan updated accordingly.	20172021104.81	Update the Content Management data conversion plan.	Consider updates for revised requirements documents (refer to finding 2019.07.PM10).	Llosed	09/2019: Accuity has kept the severity rating as Level 2 (Moderate). The Content Management Conversion and Migration Plan (version 1.1) was updated on 09/05/19 before the Content Management Design Document (version 1.1) was updated on 09/15/10 to include additional design requirements. Changes to nequirements should be evaluated for the impacts on the conversion and migration plans and the detailed taxonomy mapping. 10/25/19: DataHouse evaluated the new requirements and determined that there is no impact to the high level Content Management conversion requirements included in the Conversion and Migration Plan. 11/22/19: Accuity reviewed the taxonomy mapping with the primary stakeholder and confirmed that changes in system requirements will not have a significant impact on the Content Management data conversion plan as the legacy system has limited data fields that and currently used.	11/22/2019	Closed as changes in system requirements do not appear to significantly impact the Content Management data conversion plan.

## Appendix E: Prior IV&V Reports

AS OF DATE	DESCRIPTION
06/30/19	Initial On-Site IV&V Review Report
09/20/19	Monthly On-Site IV&V Review Report
10/25/19	Monthly On-Site IV&V Review Report
11/22/19	Monthly On-Site IV&V Review Report
12/20/19	Monthly On-Site IV&V Review Report
01/24/20	Monthly On-Site IV&V Review Report
02/20/20	Monthly On-Site IV&V Review Report
03/27/20	Monthly On-Site IV&V Review Report
04/24/20	Monthly On-Site IV&V Review Report
05/22/20	Monthly On-Site IV&V Review Report
06/26/20	Monthly On-Site IV&V Review Report
07/29/20	Monthly On-Site IV&V Review Report
08/21/20	Monthly On-Site IV&V Review Report
09/28/20	Monthly On-Site IV&V Review Report
10/23/20	Monthly On-Site IV&V Review Report
11/24/20	Monthly On-Site IV&V Review Report
12/23/20	Monthly On-Site IV&V Review Report
01/26/21	Monthly On-Site IV&V Review Report
02/23/21	Monthly On-Site IV&V Review Report



AS OF DATE	DESCRIPTION
03/24/21	Monthly On-Site IV&V Review Report
04/27/21	Monthly On-Site IV&V Review Report
05/27/21	Monthly On-Site IV&V Review Report
06/25/21	Monthly On-Site IV&V Review Report
07/27/21	Monthly On-Site IV&V Review Report
08/25/21	Monthly On-Site IV&V Review Report
09/28/21	Monthly On-Site IV&V Review Report
10/26/21	Monthly On-Site IV&V Review Report
11/29/21	Monthly On-Site IV&V Review Report
12/29/21	Monthly On-Site IV&V Review Report
01/25/22	Monthly On-Site IV&V Review Report
02/24/22	Monthly On-Site IV&V Review Report
03/23/22	Monthly On-Site IV&V Review Report





### Appendix F: Comment Log on Draft Report



### Appendix F: Comment Log on Draft Report

DLIR DC	DLIR DCD eCMS Project: IV&V Document Comment Log										
of the second		<b>O</b> ACCUITY									
ID #	Page #	Comment	Commenter's Organization	Accuity Resolution							
1		No DLIR comments.									
2											
3											
4											
5											
6											
7											
8											
9											
10											

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