

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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May 9, 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 http://ets.hawaii.gov (see "Reports").

Sincerely,

DOUGLAS MURDOCK Chief Information Officer State of Hawai'i

Attachment (1)



MONTHLY ON-SITE IV&V REVIEW REPORT

REPORT FINALIZED

March 23, 2022 | Version 1.0

May 3, 2022





Table of Contents





Document History

DATE	DESCRIPTION	AUTHOR	VERSION
04/07/22	Monthly On-site IV&V Review Report Draft created	Julia Okinaka	0.0
05/03/22	Monthly On-site IV&V Review Report Final updated for corrections of documents in Appendix C and 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 two-month assessment of cost management, organizational change management, and system operations and the beginning of a two-month assessment of configuration management. 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 March 23, 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.

PROJECT MANAGEMENT

"Clarity and simplicity are the antidotes to complexity and uncertainty."

-General George Casey



PROJECT ASSESSMENT

AS OF MARCH 23, 2022

SUMMARY RATINGS

OVERALL RATING



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

PROGRAM GOVERNANCE



PROJECT MANAGEMENT



TECHNOLOGY



CRITICALITY RATINGS

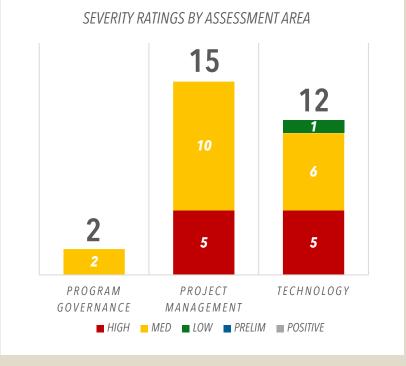




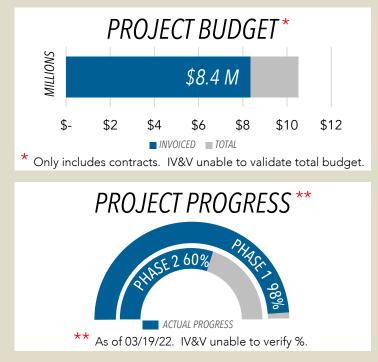


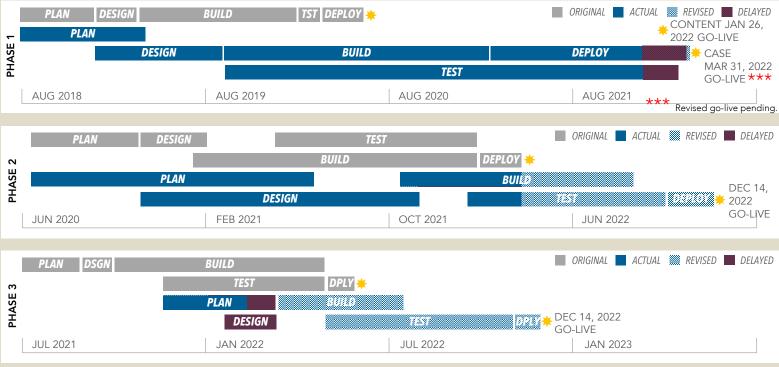


29 OPEN FINDINGS



45 OPEN RECOMMENDATIONS





ASSESSMENT AREA & RATINGS SUMMARY

AS OF MARCH 23, 2022

JAN	FEB	MAR	IV&V ASSESSMENT AREA	IV&V OBSERVATIONS
R	R	R	Overall	While the eCMS Project continues to move forward, status of existing obstacles are pending or unknown. Greater clarity is needed around status, plans, revised schedule, processes, metrics, and criteria.
				Project Schedule: Phase 2 is generally on track and slightly ahead of schedule. Phase 1 Case Management and Phase 3 tasks are delayed. Approval of a revised project schedule is still pending. Accuity is unable to fully assess schedule variances (refer to finding 2019.07.PM13).
				Project Costs: Contract costs are within the total contract amounts. 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).
				Quality: 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).
	①	Y	Program Governance	The eCMS Project Executive Steering Committee (ESC) meeting was canceled for the month of March. Guidance and active involvement from project governance is needed to oversee major risks and issues, drive progress, enforce accountability, and reassess overall project priorities and goals.
R	R	R	Project Management	A revised project schedule was developed but is still pending full DLIR and ESC approval. Proposed revisions will defer the Phase 1 Case Management go-live to June 2022, accelerate the Phase 2 go-live to November 2022, and compress the Phase 3 timeline. The Phase 1 Case Management proposed June 2022 go-live is still quickly approaching. It is critical that plans for Phase 1 Case Management go-live are 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. Phase 3 requirements sessions resumed and the requirements deliverable was deferred to the end of March 2022. DLIR improved processes to monitor, engage, and acquire resources and trace requirements to testing and acceptance. 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	Phase 1 Content Management technical system issues continue to be addressed but the complete status of issue resolution, root cause of those issues, status of user adoption, plans to address transition issues, and system operation roles, procedures, and metrics remain unclear. Improvements are 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. Phase 1 Case Management UAT progresses but is still behind initial forecasts. The Phase 1 Case Management go/no-go criteria or transition checklist are also still pending. DataHouse is completing Phase 2 development sprints ahead of schedule.

FINDINGS AND RECOMMENDATIONS BY ASSESSMENT AREA

PROGRAM GOVERNANCE



JAN

FEB

OVERALL RATING

MAR

KFY PROGRESS

Case Management UAT **PROGRESSING**

Phase 2 development
AHEAD OF
SCHEDULE

Phase 3 requirements sessions **RESUMED**

KEY RISKS

GREATER CLARITY in metrics, plans, and processes is critical

LOW Content Management USER ADOPTION

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. One IV&V Assessment Category improved and one declined from the prior report. Greater clarity is needed around status, plans, revised schedule, processes, metrics, and criteria for Phase 1 Content Management user adoption and system operation as well as Phase 1 Case Management acceptance and deployment. Continuous improvements are needed for many foundational project management and technology processes.

1	Y		Governance Effectiveness
V	V	V	Benefits Realization
JAN	FEB	MAR	TECHNOLOGY
V	₹	Y	System Software, Hardware, and Integrations
G	G	G	Design
			Data Conversion
R	R	R	Quality Management and Testing
			Configuration Management
			Security

JAN	FEB	MAR	PROJECT MANAGEMENT
R	R	R	Project Organization and Management
R	R	R	Scope and Requirements Management
R	R	R	Cost, Schedule, and Resource Management
V	V	₩	Risk Management
Ŷ	1	1	Communications Management
Y	1	1	Organizational Change Management (OCM)
Ŷ	1	1	Business Process Reengineering (BPR)
G	6	@	Training and Knowledge Transfer



PROGRAM GOVERNANCE

Governance Effectiveness

Benefits Realization



PROGRAM GOVERNANCE

JAN	FEB	MAR	IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		
JAN	FED	IVIAR	CATEGORY	IVAV ODSERVATION	NEW	OPEN	CLOSED
~	☆	Y	Governance Effectiveness	The eCMS Project Executive Steering Committee (ESC) was not able to meet this month to discuss project updates, risks, and issues. Continued project guidance and oversight is needed to oversee major risks and issues, drive progress, and enforce accountability (2021.05.PG01). The DataHouse wellness plan is expected to be provided in April 2022.	0	1	0
V	V	₹	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



PROJECT MANAGEMENT

JAN	FEB	FEB MAR IV&V ASSESS		IV&V OBSERVATION	FINDINGS		S
JAN	LED	WAK	CATEGORY	IVAV ODSERVATION	NEW	OPEN	CLOSED
R	æ	R	Project Organization and Management	Project organization and management continue to be a challenge. While the eCMS Project continues to move forward, greater clarity is needed around status, plans, schedule, processes, and metrics, especially for the quickly approaching Phase 1 Case Management go-live. DLIR and DataHouse need to maintain their increased collaboration and coordination to avoid further project constraints (2019.07.PM02). 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	R	R	Scope and Requirements Management	Requirements continue to be clarified and refined during Phase 1 UAT and Phase 2 development. Phase 3 requirements gathering is resumed and the requirements deliverable was deferred to the end of March 2022. DLIR improved processes to trace requirements to testing and acceptance but additional improvements in requirement traceability (2019.10.PM01) and requirements management processes (2019.07.PM10) are needed.	0	2	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

JAN	FEB	MAR	IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		
JAN	FEB	WAK	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
æ	R	R	Cost, Schedule, and Resource Management	Phase 1 Case Management and Phase 3 tasks are delayed. Phase 2 is generally on track and slightly ahead of schedule. A revised project schedule was developed but is still pending full DLIR and ESC approval. Proposed revisions will defer the Phase 1 Case Management go-live to June 2022, accelerate the Phase 2 go-live to November 2022, and compress the Phase 3 timeline. The Phase 1 Case Management proposed June 2022 go-live is still quickly approaching and it is critical that plans and related tasks are clarified and finalized in order to stay on track with a new schedule. Additionally, the proposed project schedule should be reassessed based on the latest status of underlying tasks to ensure that the proposed schedule is still realistic and achievable. 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). Resource engagement and ownership also improved. DLIR should continue exploring other resource management strategies (2019.09.PM02) to increase pace of work. Contract costs are within the total contract amounts. 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
Q	V	V	Risk Management	DLIR and DataHouse are still 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, especially the upcoming Phase 1 Case Management go-live, need to be developed and implemented (2019.07.PM09).	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

JAN	FEB MAR		IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		
JAN	FEB	IVIAK	CATEGORY	IVAV OBSERVATION	NEW	OPEN	CLOSED
☆	☆	☆	Communications Management	Internal DLIR communications continue to improve with weekly briefings to communicate project status and upcoming activities. DLIR is in the process of procuring an additional resource that will help to develop a communications plan for external stakeholders (2019.07.PM07), which is also needed for the upcoming Phase 1 Case Management go-live. Continued 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
↔	☆	₩	Organizational Change Management (OCM)	OCM updates are emailed to stakeholders on a weekly basis. DLIR began to develop an OCM plan, surveys, and metrics to measure user participation and system utilization. Engagement and ownership from DLIR resources improved. 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 (BPR)	DLIR continues to clarify business processes during UAT. Content Management business processes for the DCD stakeholder groups as well as the significantly more complex Phase 1 Case Management business processes still need to be clarified (2020.12.PM01). Improvements are also needed to discuss, prioritize, and analyze BPR opportunities (2021.08.PM01).	0	2	0
6	•	•	Training and Knowledge Transfer	DLIR continues to update Phase 1 Content Management and Case Management training materials for end users and system administrators to incorporate information learned during UAT. DLIR testing leads also continue to provide supplemental training. The training format and dates for the upcoming Phase 1 Case Management go-live still need to be determined.	0	0	0



TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security



JAN	FEB MAR		IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		
JAN	LED	FED IVIAR	CATEGORY	IVAV OBSERVATION	NEW	OPEN	CLOSED
₹	V	Y	System Software, Hardware, and Integrations	Phase 1 Content Management technical system issues continue to be addressed but the complete status of issue resolution, root cause of those issues, status of user adoption, plans to address transition issues (2022.02.IT01), and system operation roles, procedures, and metrics (2019.09.IT02) remain unclear. The go/no-go checklist and revised go-live date for Phase 1 Case Management is still pending. It is critical for the go/no-go checklist and deployment activities to be finalized (2020.09.IT01) due to the significantly increased complexity of the system and higher number of internal and external stakeholders that will require greater coordination and longer lead times. DataHouse is completing Phase 2 development sprints ahead of schedule. The Phase 2 interface solution is still unclear (2019.07.IT02).	0	4	0
6	6	6	Design	No significant updates since the prior report. 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
Y	Y	Y	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	2	0



TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security

JAN	EER	FEB MAR IV&V ASSESSMENT		IV&V OBSERVATION	FINDINGS		
JAIN	FEB	WAR	CATEGORY	TV&V OBSERVATION	NEW	OPEN	CLOSED
R		R	Quality Management and Testing	Current performance metrics for Phase 1 Case Management testing are still below percentage completion targets (2019.10.IT01). Issues related to permissions settings for DLIR testers largely contributed to the delays. DLIR plans to revise the testing target metrics to align to the new proposed go-live timeline. Additional improvements in prioritizing and addressing UAT execution issues (2020.12.IT01) are also needed. DataHouse is progressing 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, which is especially critical for the upcoming Phase 1 Case Management go-live.	0	3	0
Y			Configuration Management	No significant updates since the prior report. Details of the configuration management plan (2019.07.IT06) including the DLIR approval process and management of concurrent development are pending.	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 as well as future phases, including the upcoming Phase 1 Case Management go-live.	0	2	0



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.

TERMS

RISK

An event that has not happened yet.

ISSUE

An event that is already occurring or has already happened.

Criticality Rating

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.



















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.



SEVERITY 1: High/Critical level



SEVERITY 2: Moderate level



SEVERITY 3: Low level



TERMS

POSITIVE

Celebrates high

performance or

PRELIMINARY CONCERN

Potential risk

requiring further analysis.

project successes.

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 –
IEEE 29148-2018	Project Management 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
03/01/22	Interview with DCD Stakeholder

MEETINGS

DATE	MEETING DESCRIPTION
02/28/22	IV&V DCD Update Meeting
02/28/22	Weekly DCD Risk Meeting
02/28/22	DCD OCM Update Meeting
03/01/22	PM Status Meeting
03/01/22	Case Management UAT Stand-Up
03/01/22	OCM Working Session
03/02/22	IV&V DCD Update Meeting
03/03/22	PM Status Meeting
03/03/22	Phase 3 Case Management Requirements
03/03/22	Case Management UAT Stand-Up
03/04/22	IV&V Report Draft Walkthrough
03/07/22	IV&V DCD Update Meeting
03/07/22	Weekly DCD Risk Meeting
03/07/22	LIRAB Touchpoint Meeting
03/08/22	PM Status Meeting



MEETINGS (CONTINUED)

DATE	MEETING DESCRIPTION
03/08/22	Case Management UAT Stand-Up
03/10/22	PM Status Meeting
03/10/22	Case Management UAT Stand-Up
03/10/22	eCMS Testing Roundtable
03/11/22	eCMS Content Management Operation Metrics
03/14/22	OCM Touchpoint Meeting
03/14/22	IV&V DCD Update Meeting
03/15/22	PM Status Meeting
03/15/22	Case Management UAT Stand-Up
03/15/22	eCMS Testing Roundtable
03/15/22	OCM Working Session
03/16/22	IV&V DCD Update Meeting
03/17/22	PM Status Meeting
03/17/22	Case Management UAT Stand-Up
03/17/22	Phase 3 Case Management Requirements
03/21/22	Weekly DCD Risk Meeting
03/22/22	PM Status Meeting
03/22/22	Case Management UAT Stand-Up
03/22/22	eCMS Testing Roundtable
03/23/22	Content Management Quality Log and Helpdesk Issues Review



MEETINGS (CONTINUED)

DATE	MEETING DESCRIPTION
03/23/22	IV&V DCD Update Meeting

DOCUMENTS

TYPE	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)
Design	Design of Form TDI-46 Denial of Claim for Disability Benefits (03/22/22)
Forms	HC-15 Health Care Contractor Report (rev 03/2022)
Development	Content Management Operations Documentation Version 1.0 (03/13/22, pending DLIR approval)
Development	Case Management Phase 2 Build Burndown (03/03/22, 03/17/22)
Development	DataHouse Development Team Status Meeting Minutes (02/23/22, 03/02/22, 03/09/22, 03/16/22)
Development	Data Layout for Carrier Electronic Filing
Governance	eCMS ESC Meeting Minutes (02/11/22)
OCM	OCM Agenda (02/28/22, 03/14/22)
OCM	DCD eCMS Modernization Project Update (03/02/22, 03/09/22)
Quality	Content Management Quality Tracking Log (03/20/22)
Quality	Metrics for Content Management Quality Tracking Log (03/20/22)
Requirements	Requirements Traceability Matrix (RTM) (03/23/22)



DOCUMENTS (CONTINUED)

ТҮРЕ	DOCUMENT
Requirements	Phase 3 Case Management Requirements Gathering Meeting Notes for 03/17/22
Risk and Issues	RAID (Risk Action Issue Decision) Log (Updated 03/23/22 by DataHouse Project Manager)
Risk and Issues	RAID Log (Updated 03/23/22 by DCD Project Manager)
Costs	DCD eCMS Modernization Project – Services (03/23/22)
Costs	eCMS AWS Costs and Operations (03/23/22)
Schedule	eCMS Microsoft Project Plan as of 03/19/22 (MPP file)
Schedule	Filtered Project Plans (Late Tasks, Upcoming 4 weeks) (02/28/22, 03/08/22, 03/15/22)
BPR	DLIR Business Process Improvement Opportunities Log (03/23/22)
Testing	Case Management Test Cases (03/23/22)
Testing	Case Management UAT Metrics (03/23/22)
Testing	Case Management UAT Salesforce Bug Tracker Export (03/20/22)
Testing	Case Management Feedback on Award Worksheet (03/23/22)
Testing	Phase 2 Case Management Test Cases (03/23/22)
Testing	Phase 3 Case Management Test Cases (03/23/22)
Training	DCD Content Management Training Guides (03/15/22)
Training	DCD Case Management Training Guides (03/15/22)
Training	DCD eCMS Administrator Guides (03/23/22)
Training	DCD Content Management Data Backup Information (03/23/22)
Request for Proposal	State of Hawaii DLIR DCD RFP No. RFP-22-03-DCD (Release Date 02/10/22)
Request for Proposal	State of Hawaii DLIR DCD RFP No. RFP-22-02-DCD (Release Date 02/10/22)



Appendix D: Prior Findings Log



Appendix D: Prior Findings Log

ASSESSMENT		ORIGINAL	CURRENT						FINDING		CLOSED	
CATEGORY	FINDING ID	TYPE SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	DATE	CLOSURE REASON
System Software, Hardware, and Integrations	2022.02.1701	Moderate Moderate	Moderate	Content Management system and rollout issues resulting in low user adoption.	The eCMS Phase 1 Content Management system went live on January 222, 2022 and was noted out to a small number of users in one stakeholder group. In the month since go-live, users have encountered an unable of technical issues with the system including performance, reliability, functionality, and data. The Datahouse Content Management establishing functionality. 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, DUR Teams channel, or through enaul. Than the process for reporting user issues is not consistent with some issues logged in the quality log, DUR Teams channel, or through enaul. Than which is the design of the production issues. We have a summary of the process of the production issues. We have a summary of the process of the production issues. We have a summary of the production issues with the system, it is undest how much of this is due to user Coff issues for, user resistance or training needly. User adoption to lockers need to be detentified. 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 to further analysis to determine root causes are still reselled. It is not clear what the countered users and improvement plans to specifically address these root causes are still reselled.	2022.02.IT01.R1	Improve production issue/defect processes. Develop a comprehensive and prioritized plan to address transition issues.	*Reassess issue/defect reporting processes and tools to improve consistency and ensure documentation retention. *Collect and use metrics to help in identifying production issue trends, analyzing system vs. user issues, and investigating root causes. **DUR and DataHouse should work together to evaluate and prioritize the transition issues with the greatest impact on user adoption and develop a clear plan and realists trimpact on user adoption and develop a clear plan and realists trimpact on user adoption and elevelop a clear plan and realists trimpact on user adoption and exercise plan and realists trimpact on user adoption and exercise plan and realists trimpact on user adoption and exercise plan and realists trimpact on exercise plan and exercise exercises exercise exercise exercise exercises exercise exercises exercise exercises exercise exercises exercises exercise exercises exercise exercises exercise	Open	03/23/22: Phase I Content Management technical system issues continue to be addressed to the complete status of issue resolution, root cause of those issues, status and metrics for user adoption, and plans to address transition issues renain unclear. DIRP plans to restrict access to the legacy system after the last critical schinical issue is addressed. Acculty will continue to monitor the progress of Content Management rollout and adoption.		
Business Process	2021.08.PM01 F	Risk Moderate	Moderate	Inadequate attention to and framework	issues, it is unclear what the comprehensive pian or ameline is to accress both technical and user issues to successfully transition all users onto the new system. In the initial round of Phase 2 design sessions, preliminary design mock-	2021 08 PM01 R1	Identify and analyze BPR	Consider areas with greatest impact or value due to transaction	Open	Refer to prior IV&V Monthly Report for status updates before October 2021.		
Reengineering	202106-1901	wooderate	Moderate	inadeguate attention to and transwork for BPR may reduce operational performance gains schieved.	ups were presented and did not seem to completely address the requests and current operational pain points raised by DLR SMS during the requirements gathering stage. While some features were presented that will help to improve operational performance, there were insisted opportunities to achieve even greater improvements through system automation, integration, and capabilities. Design sessions with SMEs were more focused around technical design aspects while the SMEs 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 FPP and in DataHous's contract but there are no formal plans or processes for BPPs and activities. As such, it is difficult to assess the effectiveness and mancapains targeted and achieved. Solutions to address BPP opportunities continue to be explored in follow-up design sessions as well as during the build stage; however, it is critical to identify and address these early to prevent additional effort to correct item. DIR plans to mere with SMEs prior to meetings to better prepare them to actively and effectively participate in project activities. Data Volume plans to provide more background and business context during follow-up design sessions. Although this finding is reported under the Business Process Reenjineering VBV Assessment Claegory, this finding also impacts the criticality rating for Design. In addition to the specific recommendation made as a part of this finding, the VBV economendation made at funding 2000.12.PMOI will also help to address this issue.		identify and analyze bits opportunities.	**Continue" areas with gleatest impact of value (are to stransaction volume, severily of pain points, or providly within DUR's operational volume, severily of pain points, or providly within DUR's operational paints (area) are continued to the point of the points of t	Open	neter to prior haw wommy report to status updates before Coloner 2021. 10/26/21: DUR began to track some BPR opportunities in a log. 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, lidentification of those BPR opportunities with the greatest impact or value is still needed. 02/24/22 and 03/23/22: No updates to report. Acculty will continue to assess BPR and design processes.		
Governance Effectiveness	2021 (S.PO01)	Moderate Moderate	Moderate	insufficient support and guidance from project governance may limit the project's ability to overcome current project challenges.	Since December 2000, DLIR and DataHouse have been working to address and analyse various Content Management issue, Fedfer to finding 2021 03.3101). In March 2021, DataHouse presented three options to the ESC for the Content Management solution. Previous plans and timelines to make a decision resparding the Content Management solution were postponed to allow more time for additional analysis. Solution were postponed to allow more time for additional analysis. Solution were postponed to allow more time for additional analysis. Solution were postponed to allow more time for additional analysis. Solution were postponed to allow more than decision to the postpone of	2021 05.PG0 1.R1	Increase project governance involvement.	*Obscuss high-impact harien/blockers and mitigation plans for critical issues with ESC. *Evaluate how various ESC members can be everaged to remove barriers and execute mitigation plans. *Consider adding additional ESC meetings until critical issues are resolved. **Consider establishing more frequent touchpoints with DLIR and DataHouse project sponsors 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 Cctober 2021. 10/26/21: The ESC reviewed DataHouse's revised payment schedules and approved the new project timelines. 11/29/21: The ESC approved to re-baseline the Phase 1 Content Management timeline again. Additional oversight is needed to ensure revised timelines are achieved. 11/29/21: The ESC approved to re-baseline the Phase 1 Content Management timeline again. Additional oversight is needed to ensure revised timelines are achieved. 11/29/21: The CMS Project is facing a number of significant challenges that could prevent successful completion of all time phase in 20/22 so planned. The ESC, ETS, and senior DataHouse and DUB leaders should increase oversight to guide the project to success. The DataHouse Project Sponsor significantly increased and issues 01/25/22: The DataHouse Project Sponsor significantly increased mixed to the Phase 1 Content Management go-live Program governance in expectally critical for guiding the project to the Phase 1 Case Management go-live that so currently at risk. 20/24/22: DataHouse's additional resources committed using the Content Management go-live for ILRAB are not currently being deployed. It is important for project governance he being using the project to the Phase 1 Case Management go-live for ILRAB are not currently being deployed. It is important for project governance he help guide the project forward in order to avoid recurring schedule delays. 20/23/22: The eCMS Project Executive Steering Committee (ESC) was not able to meet this month to discuss project updates, risk, and Issues. The DataHouse wellness plan is expected to be provided in April 2022. Acculty will continue to monitor governance effectiveness.		

ASSESSMENT ORIGINAL CURREN	л			ENDING CLOSED
CATEGORY FINDING ID TYPE SEVERITY SEVERITY	TY FINDING ANALYSIS	RECOMMENDATION ID RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS FINDING STATUS UPDATE DATE CLOSURE REASON
Business Process 2020.12.PM01 Risk Moderate Moders Reengineering	tel Unclear business processes supporting of the men yetser may impact testing and flegarding how the yetser will be used after interior. Content Management go-live readiness. Management go-live as well as the integrated Case Management go-live The most critical business process in question in the use of the new quick response (OR) coded workers' compensation forms and the related business processes for data entry and scanning of these forms during the Interior phase. Other examples of business processes that need to be darified include initial paper convenion scanning subsequent separation and indexing of files, smartlening of cases to IARAP during the interior, and indexing of files, smartlening of cases to IARAP during the interior, and indexing of files, smartlening of cases to IARAP during the interior, and indexing of files, smartlening of cases to IARAP during the interior, and interior in the control of the contro	2020.12.PM01.81 Clarify redesigned business processes.	*Identify business processes that need to change with the modernized system. *Discuss and evaluate options for redesigning identified business processes considering impacts on stakeholders. *Ensure that communication and training plans are updated for major changes in business processes. *Consider business process improvement performance goals and changes in business process improvement performance goals and consider to the performance goals and consider to the performance goals and consider to the performance goals and the performance goals and consider to the performance goals and the performance goals and the performance goals and consider to the performance goals and the performance goals and goals are goals are goals and goals are goals and goals are goals and goals are goals are goals and goals are goals are goals and goals are goals and goals are goals and goals are goals are goals are goals and goals are goals and goals are	Open Refer to prior IVRAV Monthly Report for status updates before October 2021. 10/26/21: DUR reached a decision on a critical Content Management business process but needs to further clarify the process details for the upcoming ge-live. 11/29/21: DUR continues to discuss and clarify some of the Phase 1 Content Management business processes upestions that are arising during UAT. 12/29/21: DUR is making progress on drafting additional process documentation related to scanning. However, a couple key business processes documentation related to scanning. However, a couple key business processed sections related to Content Management are still pending and need to be determined due to the upcoming go-live. 01/25/22: Business processes continue to be discussed and refined for the limited DURI stakeholder group in the first rollout of Phase 1 Content Management. Content Management: Content Management business processes for other stakeholder groups a verify more complex that set a stagification where complex that are 1 Case Management business processes all need to be darified. 02/24/22: No updates to report. 03/33/22: Changes to business processes around the new Case Management system need to be clarified in preparation for the upcoming go-live. Accuty will continue to assess business process decisions and documentation.
Quality Management and Testing 2020.12.IT01 Issue High High	Outstanding project risks are impairing the execution of UAI which may impact checkeduled to complete testing in the first week of January 2021. DUR quality and project success. was not able to sufficiently perspect test cases prior to UAI Vockoff, which may impact checkeduled to complete testing in the first week of January 2021. DUR was not able to sufficiently perspect test cases prior to UAI Vockoff, which was not able to sufficiently perspect test cases prior to UAI Vockoff, which was not able to sufficiently perspect that the project is able to get tracking UAI freedback and issues as well as daily meetings to discuss and review the latest log entires submitted by DUR testen. Databous either what DUR's process and thresholds are for evaluating and ultimately accepting residual issues in againgtes. Adequate UAI in accessary or ensure quality and overall project success goals are met and that the project is able to move forward. The following project risks and issues. In the project is able to move forward. The following project risks and issues. In the project is able to move forward. The following project risks and issues: Intelligent the project is able to move forward. The following project risks and issues: Intelligent the project is able to make a decipate testers and key DCD testen still need to get involved in testing activities. Additional DUR resources are also needed to assist with set case preparation, tester training, and testing oversight. Insadequate Schedule and Resource Management Processes (2019 07.PMO) — United metabolish and processes are not used to manage DUR esting resources schedule and tasks. Necemplete Requirements (DVIP 7MO) — United enclosured in testing activities. Additional DUR provided progresses are not used to manage DUR esting resources schedule and tasks. Necemplete Requirements (DVIP 7MO) — United communications occurred between the Content Management development team and DUR during development. Recent daily meeting have been development team and DUR during development.	issue/defect resolution.	*DUR and DataHouse should work together to evaluate and prioritize the LIX rescusion issues with the greatest impact on the Content Management give data. *Described the second content of the functionality to be provided by the stand-alone Content Management solution and the integrand Case Management solution. This will help DUR uses understand limitations that are only temporary and the additional functionality provided in later phase. *For issues not fixed by DataHouse, DUR should ensure stakeholders. *For issues not fixed by DataHouse, DUR should ensure stakeholders used to provide one content of the content	Open Refer to prior IV&V Monthly Report for status updates before October 2021. 1076/521: It is unchar what the impact of recent sterhical issues may be to the start of Phase 1 Content Management LNT schebided to begin in November 2021; LNT execution issues need to continue to be analyzed, prioritized, ecalated, and resolved to ensure U.X can be timely completed. DUR and DataHouse made improvements to test processes and plans (refer to finding 2019;10/101) to better prepare for upcoming UAT. DUR and DataHouse still need to further improve the issue/defect reporting tool and resolution process. 11/29/21: The Phase 1 Content Management timeline was deferred due to technical issues. DataHouse and DUR are working to evable the top three issues by early December 2021 prior to the rescheduled 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 11 indicate lower than expected progress to complete planned set cases. DUR does not have sufficient testing resources consistently performing Content Management or Case Management Esting testing. DUB and DataHouse are working to address content Management issues and defects but quality metrics indicate a high ratio of reported issues to completed test cases. 01/25/22: DUR and DataHouse improved the process for resolving issue/defects for Phase 1 Content Management VAT by prioritizing hose required to be addressed prior to ge live and agreeing to address remaining issue/defects for Phase 1 Content Management with the process for resolving issue/defects for Phase 1 Content Management VAT by prioritizing flose required to be addressed prior to ge live and agreeing to address remaining issue/defects for Phase 1 Content Management VAT by prioritizing flose required to be addressed prior to ge live and agreeing to address remaining issue/defects by the end of Pethaury 20/22. As for Phase 1 Case Management VAT, performance metr

ASSESSMENT OATGOON System Software, Hardware, and Integrations		ORIGINAL SOUTHERY High	CURRENT SEVERITY High	INDING Unclear go/no-go criteria may impact the orderly completion of all tasks required for system go-live.	The criticis for the going go decision are not completely and clearly reference and agreed upon. The decision to go live involves many areas of tasks of the project including setting, audity management, security, data conversion, training, communications, and deliverable review, as the set of the conversion readment of the services. Various project plans often include or establish select criteria; however, some of these related plans and 2019 to 0.1010, the quality management plan (2019 07.107), addisonally, acceptance oriteria for requirements (2019 10.107). Addisonally, acceptance oriteria for requirements (2019 10.107), addisonally, acceptance oriteria for requirements (2019 10.107). Addisonally, acceptance oriteria for requirements (2019 10.107). Deathous plans are to the content Management plan (2019 07.107), and the content Management plan (2019 07.107). In the content Management plan (2019 07.107), and the content Management plan (2019 07.107), and the content Management plans of the content Management plans of the content Management plans for the content Management	2020 99 ITOL #1	go criteria.	*Establish gofte-go criteria in advance of the go-live decision to allow *Establish gofte-go criteria in advance of the go-live decision to allow *Establish gofte-go criteria such as all recompleted and criteria institled. *Ecruze all parties agree upon grivino-go criteria including impacted stakeholder. *Consider goft-go go criteria such as all requirements meat acceptance criteria and are approved by DLR, end user training is completed, and critical bugs and suses are identified and resolved. *Consider setting go-live countdown checkpoints (e.g., 15, 30, 60, 90 days) for specific go/no-go criteria or tasks to be reviewed or completed by.	FINDING	Refer to prior TWAY Monthly Report for status updates before October 2021. 10/24/21 and 11/29/211. With Content Management go-live approaching in less than three months, it is critical that go/m-op cortenia are finalized. Clear go/m-op and acceptance criteria are critical for ensuring quality and overall project success goals are satisfied and verified prior to acceptance and moving the system into production. 12/29/21: Phase 1 Content Management go-live is less than a month away and Phase 1 Case Management go-live is three months away. Clear go/mogo criteria and milestones need to be established. 10/25/22: DUR and Datahouse established a consolidated go/mogo criteria and milestones need to be established. 10/25/22: DUR and Datahouse established a consolidated go/mogo checklids for the first collout of Phase 1 Content Management. Checklist items were prioritized between pre and post go-live completion. DUR and Datahouse agreed that post go-live near with the completed by the end of February 20/22. Go/mogo-checklist are still needed for the DCD rollout of Fixes 1 Content Management planned for February 20/22 and Phase 1 Case Management in March 20/22. It is critical for the go/mo-go-checklist and deployment activities to be finalized septically for Phase 1 Case Management of intensi and extensi atlasheloties at that will require greater coordination and longer lead times. 20/24/22: The Phase 1 Case Management March 31, 20/2 go-live is deferred but the revised schedule is pending, It is critical for the go/mo-go-checklist and deployment activities to be finalized.	CLOSED	CLOSURE REASON
Project 2020.07.PM Organization and Management	67 (1974) 1974 1974	High	High	Limited progress to address previously identified deficiencies for foundational project processes may result in recocurring issues and delays.	INBX identified a number of risks and issues since the YBXV Initial Report in July 2017 related to foundational project processes. Some of the more critical areas requiring improvements include cost management, schaedle management, resource resource and project success, resource and resource resources decided as well as infections, and distinguish, resources resources made as well as infections, and distinguish, resources resources made as well as infections, and resources needed as well as infections, and resources resources, 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 open. Progress was limited by availability of project resources and specific progress was limited by availability of project resources and PRARE 2 in August, this is a great opportunity to review identified difficencies, evaluate the effectiveness of current project processes, reflect on lesson seminated by a resourcement for upcoming activities. Additionally, addressing deficiencies will better position the project to handes and adjust to changes going forward including potential rapidly evolving circumstances related to the COVID-19 pandemic (refer to finding 2020 03.7MOT).	2020.07.PM01.81	Perform a project assessment. Formulate a plan for addressing identified deficiencies.	Consider performing retrospective for project processes. Consider conducing performance assessments for the project team, individual team members, and governance. Hocument lessons learned and necessary actions or follow-up to prevent recocurrence of similar issues. Horitate based on relevance to upcoming activities; consider focusing on requirements management and BPR processes to optimize effectiveness and efficiencies of upcoming requirements graphering issessons. Howeloop high-level timeline and tasks for addressing deficiencies and begin tracking progress.	Open	Refer to prior IWAV Monthly Report for status updates before October 2021. 1076/21: DUIR and DataHouse made incremental improvements in many areas of the project. The DataHouse Project Sponsor also initiated discussions with IWAV to begin discussing how to address open findings. DUIR and DataHouse should continually reseases project performance, prioritize areas to focus or for improvement, and make adjustments to processes and plans accordingly. 11/29/21: DUIR and DataHouse continue to make incremental improvements but momentum has slowed from the prior month. The CMS Project is already experiencing some challenges and setbacks under the rebaselined project-shedule. Continuous improvements in project processes are critical to prevent reoccurring delays and improve project performance. 12/29/21: The DataHouse Project Sponsor plans to prepare a wellness plan to address derntified deficiencies. O1/25/22: DataHouse assigned a resource to help with closing out prior IWAV findings. DUIR plans to perform a extrospective first for the hase I Content Management go-live to review lessons learned and make changes for future phase. Immediate adjustments of foundational project management processes must be made to prevent reoccurring delays and improve project performance, especially for Phase 1 Case Management to provide in Amplica. O2/24/22: A lessons learned meeting for Phase 1 Content Management go-live understand and address the deficiencies indentified deficiencies and executing a plan to address the deficiencies indentified during the lessons learned sources project period in Amplica. O3/23/22: The DataHouse wellness plan to address project risks and issues is expected to be provided in Amplica. Acculty will confinue to evaluate progress to address open findings.		
Data Convenion 2019.11.ITO	D1 Issue	Moderate	Moderate	Under data convention plans and processes may reduce DLIR's ability to prepare for proper data convention.	The Content Management Convestion and Migration heretain 1.2 amounting DUR approval and Case Management Conversion and Migration hereion 1.1 pending DUR approval discribe the data conversion process and often and responsibilities between Chalathouse and DUR. DUR is responsible for performing LMZ on the data and utimately signing off on the final reconciliation reports but has not yet formalized plans for these tasks. The data conversion plans do not provide sufficient details and DUR does not have insight to the DataHouse data convenion teams's activities, tools, reports, risks and issues, and testing. As such, DUR is unable to properly prepare for their part in the process and will not be able to adjust their data convenion test plans for maximum efficiency. Additionally, DUR has not finalized plans for scanning currient paper files to ensure necessary data qualify to support system us at glo like. The VMY recommendations made at 2019 of JP PMQ2 R3 and 2019 07.PMQ2 regarding DataHouse including DUR in project activities 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.R1 2019.11.1T01.R2 2019.11.1T01.R3	data conversion process.	Explain how data convenient tools perform validation and econociliation size and where walkide reports and logs, explain in the process for how the data convention 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. *FOUND LIT tests to address identified data convention risks and issues externate data convention tests explained to the convention test explained and soften excessive services are identified, standed, and scheduled frefer to findings 2019.09.PM02 and 2019.07.PM14]. *Evaluate the impact on operations and project success of different data convention scanning approach options. *Exitates examing time requirements and begin to schedule or acquire necessary resources (refer to findings 2019.09.PM02 and 2019.07.PM14).	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/24/21: Phase 1 Case Management data validation testing is mostly complete with URA of DataHouse working to address the remaining issues. After going through the data conversion testing for Phase 1, DLIR better understands DataHouse's data conversion testing for Phase 1, DLIR better understands DataHouse's data conversion process and the importance of formalizing their own test plans. DLIR and DataHouse should continue to refine processes including issue status and resolution, DLIR testing documentation, and test metrics. DLIR and DataHouse should continue to refine for the conversion of paper files. The processes including the decision of plan was made. 11/29/21: DLIR discussed when paper files should be scanned in but no decision or plan was made. 11/229/21: DLIR looking to procure additional data conversion resources and is assessing options for scope and timing of paper files to be scanned. O1/25/22: Procurement of DLIR data conversion resources is in progress to perform conversion of paper files. The procurement covers open cases and closed cases for the last 30 years. The estimated contract start date is early March 2022 and the artiget completion date is ferburary 2022. It is undershow the timing of this work will impact the use of the new system or business processes for the files 1 Content Management DCD rollout and the files 1 Case Management go-live. 20/244/22 and 33/23/22: No updates to report. Acculty will continue to evaluate data conversion plans and processes.		

ASSESSMENT CATEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE CLOSURE REASON
Scope and Requirements Management	2019.10.PM01	Risk	High	Moderate	The current RTM documentation and tool may hinder treashilly, which may impact the ability to ensure the overall e-CMS authors (Iritisal elequirements) and provides context and expectations for design, development, and testing.		2019-10 PM01.R1	improve requirements traceability.	*Trace contract 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 and testing. *Trace requirements to the project objectives success metrics (refer to finding 2019 07 Pc05) 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	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21: DataHouse continues to make updates to the RTM for changes in underlying deliverables using the same traceability approach. As a way to milipage the unclear traceability in contract requirements to develop text cases for upcoming Phase 1 Content Management and Case Management UAT. 11/27/21 and 12/29/21: DUR is creating UAT test cases from original contract requirements to requirements as a way to milipage missing requirements. The test cases reference the source of the requirement which helps to provide some additional traceability. 11/25/22 and 02/24/22: No updates to report. 30/23/22: Acculy decreased the severity rating from Level 1 (High) to Level 2 (Moderate) as DUII improved process to trace requirements to retain and acceptance. IV&V vacad a sample of requirements to their respective text cases to rear cereptions to the respective text cases to make requirement to a different phase. DUIR plans to review the assignment of requirements and related text cases to ensure that they are properly assigned to the correct phase for testing. Acculty will continue to evaluate the effectiveness of requirements to state that cases is consure that they are properly assigned to the correct phase for testing.
Quality Management and Testing	2019-10.IT01	Issue	High	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 test plan was scheduled for completion on September 3, 2019. Due to the need to focus resources on the NAVS setup and network connections, DataHouse is now targeting to complete the test plan in November 2019 and the plan may be completed the set plan in November 2019 and the plan may be combined with the DataHouse test plan. As DataHouse test activities are scheduled to begin in November 2019, DILK needs to understand DataHouse's test stategy and lets treeds. DILK needs to understand DataHouse's test stategy and lets treeds. DILK also needs to establish their own test strategy as well as identify, tain, and schedule DILK test resources.		Finalize the test plan.	*Identify applicable test standards and requirements. *Delineate roles and responsibilities between DataHouse and DLIR infect to finding 2010.07.MIG2). *Estimate test resource needs and ensure adequate resources are discussed and some adequate resources are discussed. And an advantage of the control of	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21: DUR plans to break Phase 1 Case Management and Phase 2 UAT into IVAT group test cycles but exact dates for frese test cycles need no be discarded to the status of the property of the status of the property of the status of IVAT. DUR status of IVAT. Sta
Security	2019.10.IT02	Risk	High	High	Lack of formalized security policies and procedures may impact the security an privacy of the data and may lead to project delays.	DUR currently does not have formal security policies to determine locutify requirements for the cOMS Project and does not have security procedures in place to adequately protect COMS Project data. The lack of policies primarily impacts the completion of the AWS setup and the content Management solution component. Security requirements for the cloud environment must be determined and controls implemented before the AWS environments can be used for planned data convenion and testing activities. The determination of security requirements is critical as data convenion activities are already delayed for the AWS setup and testing activities are to begin in November 2019. The development of formalized policies will also impact the application security management plan and design that Dearlbouse is responsible free for finding 2019 of 1017. Security projecties and the resulting security requirements should be determined immediately to prevent further delay of the project.	2019-10.IT02.R1 2019-10.IT02.R2	Formalize security policies. Formalize and implement security procedures.	*Work with ETS to align DLIR policies with State policies and/or a standard security framework. *Consider prioriting security policies that are most relevant for use of cloud services and data protection (e.g., security logging and monitoring, MRA, renote access, encryption of data stert and data-in transit of security security controls between DLIR and ETS. *Clarify roles and responsibilities for security procedures. *Consider prioritizing security procedures. *Consider prioritizing security procedures that are necessary for the operation of the AWS environments.	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21, 11/29/21, and 12/29/21: No updates to report. 01/25/22: DLIR clarified some of the security requirements for Phase 1 Context Management with ETS. 02/24/22 and 03/23/22: No updates to report. Accuity will evaluate the security policies, requirements, and procedures as they are finalized.

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	
Cost, Schedule and Resource Management	2019.09 PM02	Risk	High	High	Undefined resource management processes and procedure may result unidentified resource requirements, inadequate resources, or project resources that are not optimally utilized (Updated)	This was originally reported in the September 2019 N&V Monthly Report. The Project Management Plan (yession 1.3) includes a human resource management scient that outlines the high-level roles and responsibilities of various team members but does not define a process for how resource will be managed. This vill become more critical for DUR as the project gears up for more resource demanding activities including data conversion, testing, and apprint reviews. Addisonally, DUR project team resources are not fully dedicated to the project and still perioden drive judicia. Developing processes and procedures to track and quartify upcoming resource needs, identify available resources, procure or obtain commitments of resources, manage resources to act and caused to the conversion of the project and still project the project and still appropriate the project and still appropriate the project and still appropriate the project and still project and still and supplied resources, provided the project and still appropriate and still appropriate and still appropriate appropriate and still appropriate appropriate appropriate and still appropriate appro	2019.09.PM02.R2	Oevelop procedures to estimate and refine DLI Resource requirements. Develop processes to optimize utilization of DLIR project resources.	Detail necessary steps and information needed to estimate and refine resources regularements. *Consult DataHouse for input on upcoming activities that require DUR resources and darly expectations of resources. *Assign responsibility for and establish target due dates to develop resources estimates for major project activities (e.g., data convenion, testing). *Consider working with managers of project resources to reassign team members ofter job duties. *Consider working with managers of project resources to reassign team members of the job duties. *Consider precidely reconfirming and renewing resource commitments to the project. *Estimate team members understand their responsibilities (e.g., testing, salignments. *Estimate team members understand their responsibilities (e.g., testing, salignments. *Estimate team members are properly trained and prepared to perform their assignments. *Estimate team members are properly trained and prepared to perform their assignments.	Open	Refer to prior IWAV Monthly Report for status updates before Cictober 2021. 10/26/21 and 11/29/21: DIR plans to manage IUAT 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 issues. Additional resource management strategies are still needed for other activities and phases. 12/29/21: Plans to manage IUAT resources in test cycles, teams, and days did not occur as planned. 01/25/22: Resource management is one of the issues with the greatest separation over a planned. 01/25/22: Resource management is one of the issues with the greatest separation over a planned. Only the company of the company			
System Suftware, Nardware, and Integrations	2019.09.1T02	Risk	Moderate	Moderate	Unclair MMC rules and responsibilities may impact operational readmens after transition. (Updated)	This was originally reported in the September 2019 N&V Monthly Report as a preliminary concern but is upgraded to a risk in this report. The MoX Oroles and reportabilities and plans for developing support processes and procedures are currently unclear. DLIR is considering executing a support option in their contract with Dashbours to help with MAG after go-live as it is uncertain if DLIR EDPSO will have adequate resources to perform required MAG. The COVID-19 pandemic yelfer to finding 2020.03 PMO11 further exacerbates and creates additional uncertainty with regards to DLIR EDPSO and ETS resources. The roles resources to perform required MAG. The COVID-19 pandemic yelfer to relate yellow the September 19 pandemic yelfer to responsibilities with ETS and Dashboure need to be clarified. This will help to quantify 65M MAG resource requirements (yelfer for finding 2019 OP PMO2) and either identify resources within the existing DLIR EDPSO team or acquire the necessary securizes (2019 PM 161.) This should be done with sufficient time for training and knowledge transfer so that MAG resources are in place as polive. Clarifying MAG Ordes and responsibilities will also help to develop the related security management plan (refer to finding 2019 0.7.1707).		Clarify M&O roles and responsibilities.	Discuss terms of DataHouse support option to understand level of support, cont structure, and limiting of transition. *Clarify any shared responsibility with ETS and enterprise tools that can be leveraged.	Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/24/21: With the December 2021 Phase 1 Content Management golive quickly approaching, it is critical for M&O roles and responsibilities to be clarified and finallesed. 11/29/21: DLIR and DataHouse came to an agreement that turnover of the systems will be at the end of all three phases. M&O roles and responsibilities during the interim period between go-live and system turnover need to be further clarified. 12/29/21: Phase 1 Content Management go-live is less than a month away, and Phase 1 Case Management go-live is three months away. M&O roles and responsibilities during the interim period still need to be clarified. 21/29/21: Phase 1 Content Management go-live is three months away. M&O roles and responsibilities during the interim period still need to be clarified. 20/24/22: No updates to report. 20/24/22: No updates to report. 20/23/22: System M&O roles, sponcedures, and metrics are still unclear two months post go live for Phase 1 Content Management. DLIR provided documentation deliverable that it does not provide the necessary information necessary to perform M&O. DataHouse clarified that they plan to provide another deliverable that it does not provide the necessary information necessary to perform M&O. DataHouse clarified that they plan to provide another deliverable that it does not provide the necessary information necessary to perform M&O. DataHouse clarified that they plan to provide another deliverable that it does not provide the necessary information necessary to perform M&O. DataHouse clarified that they plan to provide another deliverable that it does not provide the necessary information necessary to perform M&O. DataHouse clarified that they plan to provide another deliverable than plan 2022 that will have more detailed M&O information learned during UAT. Acculty will continue to evaluate M&O as roles and responsibilities are clarified.			
Data Conversion	2019.09.IT03	Risk	Low	Low	Unsupported IBM Lotas Notes Domino Case Management may impact the execution of data conversion activities. Updated	This was originally reported in the September 2019 V&W Monthly Reports as preliminary cornem but is upgoafed to a risk in this report. The current case management system, IBM Losus Notes Domino, is no longer supported. The product was sold by IBM to Hct. Technologies, an Indian IT company, DLIR's Iscenses for the product ended in June 2019 and DLIR is unable to renew the Iscenses as Hct. Technologies is not a State Procurement Office (SPO) compliant vendor. This system will be replaced by the GNS Case Management solution which was sheduled to go-live in November 2020 but this was tentatively pushed 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.	2019.09.IT03.RI	Explore options for obtaining support.	Consider working with ETS or other State agencies still using Lotus Notes to get vendor approved and support contract in place.	Open	Refer to prior IWAV Monthly Report for status updates before Cctober 2021. 10/26/21, 11/29/21, 12/29/21, 01/25/22, 02/24/22, and 03/23/22: No updates to report. Acculty will continue to monitor this preliminary concern.			
Benefits Realization	2019.07.PG0S	Risk	Moderate	Moderate	Not defining, tracking, or using clear and measurable goals and success and measurable goals and success metrics to evaluate project and contractor performance may reduce benefits expected at project completion.	The eCMS Project does not have a project charter that would have behigden for formalize the project goals, target herefits, and success metrics at the start of the project. Based on informal recommendations made by Team Accing during the initial VBV on onthe review, DLR is in the process of creating a project charter that includes clear goals and success metrics. The lack of clear and measurable goals and success metrics makes it difficult to determine if the project and technical southon will achieve the desired level of improvement or benefits that justify the projects financial investment. Goals and success metrics made 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	Formalize measurable goals and success metrics in a project charter control of the control of th	Consider financial, nonfinancial, tangible, and intangible metrics such so perational ley Performance indicators (IVR), 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 project management objectives as well as alignment to a consider project management objectives as well as alignment to DLR goals. *Consider project of callecting data such as surveys, operies, observation, open 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 October 2021. 10/24/21, 11/29/21, 12/29/21, 01/25/22, 02/24/22, and 03/23/22: No updates to report. Acculty will continue to evaluate the collection and monitoring of success metrics data.			

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Project Organization and Management	2019.07.PM02	Risk	High	High	The current project management organization may hinder project performance.	The cMXP Project has failed to achieve team synergy between DUR and DataHouse project team members and appear to work as separate teams instead of one. DataHouse works almost exclusively off-site except for designated meetings, workhops, and design sessions and DUR is not included in many project design or development activities. The unclear contract teams regarding olders and responsibilities between DUR and DataHouse (refer for finding 2019 07/P003), physical separation of the project team, and limited collaboration or DUR involvement have all contributed to the siloed workstreams. This has also led to ineffective communications within the project team (refer to finding 2019 07/P006).		Clarify roles and responsibilities between DLIR and DataHouse. The DataHouse Project Manager should work onsite at DLIR through project completion to improve DLIR and DataHouse project team cohesion.	•Consider mixing project management plan to identify the person responsible and its 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	Refer to prior IV&V Monthly Report for status updates before October 202 10.26.21: There were improvements in collaboration between DLR and DataHouse. The DLIR Data Convention Lead is working closely with the DataHouse counterpart. The DLIR business analyst contractor is also working directly with the Case Management development team. Rezumin meetings between the Content Management development lead and DLIR test team are scheduled to occur (unitry QLI.7. DataHouse also agreed to hold periodic meetings focused on technical topics. With the aggressive timeline, effective project management including prioritization of tasks, flu- collaboration, transparent dallogue, swift firsk and issue resolution, and careful coordination of limited resources are key.	3	
							2019.07.PM02.R3	include DLR in project activities and communications to increase DLR and Data House project team cohesion.			Careful coordination of limited resources are key. 11/29/21: The recurring meetings between the Datahlouse development teams and DUR test teams during UAT were deferred due to the rescheduling of UAT to December 2021. 12/29/21: Recurring meetings between the Datahlouse development teams and DUR started for Content Management UAT but did not begin for Case Management UAT. 11/25/22: DUR and Datahlouse came together in the final weeks leading to Phase 1 Content Management gol-live to coordinate, prioritize, complet or Prisses 1 Content Management gol-live to coordinate, prioritize, complet or Prisses 1 Content Management gol-live to coordinate, prioritize, complet or Mispate deployment activities to keep the project or track with the scheduled gol-live. Datahlouse on-site resources worked closely with the DLR stakeholder in the first rollout of Content Management. Momentum achieved through increased collaboration and coordination during this first major milestome needs to be quickly transitioned to the next rollout. 10/24/22: The continuing work from Phase 1 Content Management gol-live to continuing work from Phase 1 Content Management gol-live as the continuing work from Phase 1 Content Management gol-live according dosely together to resolve production issues. The recurring stand-up meetings also help to improve collaboration and coordination to avoid further project constraints on the project organization. 20/23/22: DUR and the Datahlouse Content Management development team were working dosely together to resolve production issues. The recurring stand-up meetings also help to improve collaboration and coordination to avoid further project constraints on needed around Phase 2 and 3 activities. Acculty will continue to evaluate the clarity of roles and responsibilities and observe the effectiveness of project organization.) P	
Project Organization and Management	2019.07.PM03	Issue	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.	DataHouse prepares project deliverables and submits to DLIR for review. As DLIR has had limited involvement in project activities or the preparation of deliverables (refer to finding 2019.07 M/20, DLIR does not have an understanding of the purpose of the deliverables or the thought process and factors that were considered in developing the deliverables. This has led to protracted review periods and acceptance of deliverables. This has led to protracted review periods and acceptance or deliverables that on on meet industy standards (feller for finding 2019.07.08), a lack of a quality management certains (effect to finding 2019.07.08), a lack of a quality management certains (effect to finding 2019.07.08), a lack of a quality management 2019.07.105), and over staked project managers (refer to finding 2019.07.08). The project managers of the finding 2019.07.08 and the project contribute to an inferfictive deliverable review and acceptance process. The delay in the approval of deliverables has been cled by the eCMS Project team as one of the reasons the Phase 1 go. live dates were extended. Based on informal VKV recommendations, DataHouse and DIR standed to implement joint deliverable review meetings beginning June 2019.	2019.07.PM03.R1 2019.07.PM03.R2 2019.07.PM03.R3	Establish deliverable acceptance criteria. Hold joint DUR and DataHouse deliverable review meetings to wall through deliverables unplement formal deliverables review and approval processes.	Consider including acceptance criteria in the quality management plan (refer to finding 2019.07.1705), in a contract amendment (refer to finding 2019.07.1705), or in Deliverable Expectation Documents (DED). *Include both the acope validation process for acceptance and the quality control process for correctness (refer to finding 2019.07.1705). Archide an evaluation of deliverables against acceptance criteria and requirements documentation. *Ult about diversated how each deliverable impacts the project schedule, roles and responsibilities, and ultimately the quality of the technical solution and success of the project.	Open	Refer to prior IV&V Monthly Report for status updates before October 202 10/26/21: Acculty decreased the seventy rating from Level 1 (High) to Lev 2 (Moderate) as DLR completed review and approval of many pending deliverables. Databuse held deliverable levalthrough meetings for the Phase 2 design deliverable and vulnerable levalthrough meetings for the Phase 2 design deliverable and vulnerable list scan results. DLR state more timely review of the Phase 2 design deliverable. 11/29/21: DLR signed off on the Phase 2 design deliverable. 11/29/21: No updates to report. 11/29/21: DLR signed off on the Phase 1 Content Management system installation and configuration deliverable but it is unclear what the acceptance criteria was and whether the deliverable adequately documen the information DLR needs in order to perform M&O for the system (refer also to finding 2019/07/102). DLR also signed off on Content Management UAT and final data migration even though there are pending issues that need to be addressed by either DLR or DataHouse. 02/24/22 and 03/23/22: DLR continues to sign off on additional DataHou deliverables but it is unclear what processes or factors were considered in accepting these deliverables. Acculty will continue to evaluate the effectiveness of the deliverable revier and acceptance process.	s s	

ASSESSMENT			ORIGINAL	CURRENT						FINDING		CLOSED	
ZATIGORY Communication Management	ENDING IO 2019.07. PMO6	TYPE	SEVERTY Moderate	SWEETY		Communication activities listed in the Project Management Plan (sension 1.0) did not occur as planned as the weekly project status meetings did not begin until alor 2019 and the first progress report was completed until February 2019. Despite the commencement of regular orgotect communications, misunderstandings and miscommunications between the DataHouse and DLIR project teams confinied to occur. DLIR project teams confinied to occur between the DataHouse and DLIR project teams confinied to occur in the technical solution (refer to finding 2019 07.1702) and project risks and issues (feel to finding 2019 07.1702). Additionally, information regarding supcoming project activities was not provided smely. For assample, DataHouse did not timely communicate to DLIR what to expect for the design stage sessions (e.g., what would be covered each you which end uses needed to participate). There has also been a lack of office of the occurrence occurrence of the occurrence oc	ECCHMIEDIATION ID 2019.07.PM06.R1	ECOMMINDATION Implement dilly touch point meetings between Oatal-touse and DUR Project Managers.	SUPPLEMENTAL RECOMMENDATION	STATUS	Assert to prior IVAV Monthly Report for status updates before October 2021. 10/26/21: Recurring meetings between the Content Management development lead and DLR test test man are scheduled to occur during IMAT. DataHouse also agreed to hold periodic meetings focused on technical topics. The changes made to the weekly project management meeting are helping to improve discussions about upcoming project activities as well as risks and issues and mitigation plans. Open and honest dialogue is critical to keep up with the aggressive project proving floward within a spring and activities as well as risks and issues and mitigation plans. Open and honest dialogue is critical to keep up with the aggressive project proving floward with indepring the activities and the support of the project moning floward with indepring Plane I. Content Management technical issues. The recurring meeting between the DataHouse development team and DLR state teams during UAT were deferred due to the rescheduling of UAT to December 2021. 12/29/21: Recurring meetings between the DataHouse development team and DLR stated for Content Management UAT but did not begin for Case Management UAT. Open and transparent dialogue between DUR and DLR stated for Content Management UAT but did not begin for Case Management UAT. Open and transparent dialogue between DUR and DataHouse of current project status and risks still need in provement. 01/25/22: Recurring meetings and DataHouse on-site resources allowed for frequent communications between DUR and DataHouse to track with the scheduled Plane I Content Management UAT. Content entire for the proper of the province of the proper of the province of the provin	DATE	CLOSURE REASON
Communication	2019.07.PM07	Risk	Moderate	Moderate	The lack of failured project communications for all impacted stakeholden may reduce user adoption and stakeholder buy-in.	Communications management is a part of the Project Management Plan Reveloped by DataHouse, however, the plan is not comprehensive and primarily reflects project meetings, status reporting, and issue reporting. The approved Project Management Plan Periore In 2 was updated to include a communication matrix that outlines additional communication activities. While this is an improvement over the previous version, the latest draft plan still does not provide adequate details regarding communication extrivites and latesholders are grouped together for three broad communication methods and activities. A formal communication methods and activities to determine the information needs of internal and external project stakeholders. There is not a process to ensure the timely distribution of stakeholders. There is not a process to ensure the timely distribution of stakeholders. The information needs of internal and external project stakeholders. The information needs of internal and external project stakeholders in the information needs of internal and external project stakeholders in the information communication activities is normal project violated membership and working assessment (feer for finding 2019 07 PAH14). As such, communication activities is normewhat mitigated as the DLIR Project Manager involves internal stakeholders or any external stakeholders.	2019.07.PM07.R1	Further refine communication management plans.	Segment stakeholders into groups by communication needs such as by department unit (e.g., Hearings, Enforcement, or Records and Claims), by position (e.g., managet, supervisor), or internal and external (e.g., claimans), insurance agencies. **Consider the list of communication methods listed in DataHouse's BAFO. **Due to limited DLIR resources available for communication activities, the specific groups and communication activities should be printited to focus resources most efficiently. **Uplate the project schedule for communication activities and assigned resources (refer to finding 2019.07.PM14).	Open	communication channels. Refer to prior IV&V Monthly Report for status updates before October 2021. 102/2012 : DUR is preparing for the annual divisional meetings to provide project updates for internal DCD stateholders. DUR is considering having this quarterly for the remainder of the project. Communication activities and methods for retarnal stakeholders need to be revisited specially related to new forms, go-live of the new electronic submission processes and the portal, and with any external stakeholders to the testing. 11/29/21: DUR held divisional meetings to provide project updates for internal DCD stakeholders. 12/29/21: DUR held divisional meetings to provide project updates for internal DCD stakeholders and external state of the state o		

ASSESSMENT		ORK	SINAL CURREN	т					FINDING		CLOSED	
CATGOO'R Organizational Change Management	PROING ID 2019 07 PMG8 6	SEVENTYPE SEVENT	SEVERITY SEVERITE Modera	Missing key OCM steps or activities menot identify pockets of resistance or adequately enable individual change.	There is no formal OCM plan or approach. DataHouse's BAFO lists various COM activities but these were not formalized in a plan or processes. There are no COM specific tasks or resources assigned for OCM activities in the project schedule (refer to finding 2019 07.PM18. Although their is no formal or coordinate COM approach, some elements of OCM occur through regular project management communication and draining activities. The DLR Project Manager's communication and draining activities. The DLR Project Manager's taken the control of COM approach of the project (feet no finding 2019 07.PM19) also mitigates the lack of a formal approach. Although projects may progress without a formal COM approach, industry best practices support that a structured COM approach, compliment project management approaches in increasing probability of project success. Performing activities with an OCM focus will help to better prepare, equip, and support individuals throughout the project and to ensure that the solution is ultimately adopted and embraced by employees.	ESCOMMENDATION D 2019-07-PMOB.R1	**************************************	SUPELWENTAL RECOMMENDATION Collect baseline change awareness and readiness measurements through surveys or interview. Create and mobilize a change coalition group of managers, supervisors, and key influencess. Honoporeta and align CCM into communication, business process engineering (BPR), and training activities. Pélveolog CCM activities to addiess demified awareness gaps or which the communication of the communication o	STATUS Open	Refer to prior IVAW Monthly Report for status updates before October 2021. 10/26/21 and 11/29/21: DLIR continues to hold supplemental working sessions and trainings to help DLIR project team members prepare for and participate in project activities. DLIR needs to further develop the OCM plans and approach to increase stakeholder engagement, collect periodic readiness data, and indirect changes related to the upcoming Contract Management go-live. 12/29/21: DLIR continues to prepare additional reference materials and meet one-on-one to help DLIR project team members prepare for and participate in project activities. However, there is all long satisfactions and engagement from assigned testers. Additional OCM strategies should be explored to increase stakeholder engagement and commitment to completing project work. 10/25/22: DLIR bed meetings leading up to go-live to prepare stakeholders in the first rollout of fhase 1 Content Management. DLIR also plans to hold results of the project of the propers of the propers of the propers of the propers of the project of the proj	OATE	CLOSURE REASON
Risk Management	2019.07.PM09 li	ssue Mod	erate Modera	identified, tracked, or reported resulting in the lack of understanding of potentia	Only three risks and two issues have been identified by DataMouse on the project to date with no history of any risks being closed. DUR project team son to tracking any of its own risks or issues related to the	2019.07.PM09.R1	Formalize the Risk and Issue Management process.	 A formalized process should clearly define responsibilities and steps in identification, resolution and action items tracking, and escalation procedures.) Open	change readiness of project stakeholders. Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21: DLIR and DataHouse continue to develop some risk mitigation		
					origica. A fisk regarding the slably in the completion of the MOU agreement with Disc feet for finding 2019 OF 7MOVA and 2019 OF 7.100 And	2019-07-PM09-R2	Conduct regular meetings to discuss project risks and issues.	*The project team must encourage open, transparent discussion about maks and susse. *Include DataHouse and DLIR and, on occasion, the executive steering committee (Fert Fording) 2019 07, PGGI2. *Perform a detailed review of new items, status of open items, risk/rissue owners, and mitigation plans.		plans for the highest priority risks. With the appressive timeline, it is critical for DLR and DataHouse to continue to improve risk management processes on that risks and issues are proactively identified and swiftly mitigated. 11/29/21: DLR and DataHouse evaluated different risk mitigation strategies to address ongoing Phase 1 Content Management trechnical issues. DLR and DataHouse are completing steps to mitigate risks and issues but additional improvements to risk management processes are needed to increase the speed of resolution. 12/29/21: Acculty increased the seventry rating from Level 2 (Moderate) to Level 1 (High). DLR and DataHouse are making some progress to complete risk and issues mitigation tasks; however, the slow speed of resolution is contributing to project delays. Closer monitoring and quicker execution of mitigation plans for all high priority risks and issues will help to minimize schedule impacts of risks and issues. 10/125/22: Accusty decreased the seventry rating from Level 1 (High) to Level 1 (Moderate). DLR and DataHouse mitigated Phase 1 Content Management opolive risks by limiting rollicut os avail 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 on Inplans for other phases of the project, including the quickly approaching Phase 1 Case Management go-live, need to be developed and implemented. 10/24/22: DUR and DataHouse are working to address Phase 1 Content Management go-live, has do increases and sixues for other phases due to the deferring other intensity of the project relation of the phase of the project relation of the project relation of the phase of the project relation and implemented to be developed and implemented.		

ASSESSMENT CATEGORY	FINDING ID	OF TYPE SE	RIGINAL CURR	ITY FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED	CLOSURE REASON
Scope and Requirements Management	2019.07.PM10	Issue His	gh High	The Content Management and Case Management requirements documentation is incomplete.	The requirements for both Content Management and Case Management have a leavely been approved, however, the requirements are incomplete leg, do not incomplete l		Revise Content Management and Case management requirements documentation and RTM. Improve requirements management processes.	*Finume requirements follow SMART (specific, measurable, actionable, eathers and time bound) guidelines. *Finume requirements follow SMART (specific, measurable, actionable, realistic and time bound) guidelines. *Finume requirements followers for the second s	Open	Refer to prior NRW Monthly Report for status updates before October 2021. 1026/21: Data/bouse and DUR clarified Phase 1 Content Management explorements in updated deliverable. DUR distrible. DUR distrible graps in documented deliverables. DUR six sing the contact requirements in documented deliverables. DUR is sing the contact requirements and other requirements discussed with SMEs during project meetings to develop test cases for upcoming Phase 1 Content Management and Case Management UAT. 11/29/21 and 12/29/21: DUR is confining to create UAT test cases as a way to mitigate missing or outdated project requirements. 01/25/22 and 02/24/22: Requirements continue to be clarified and refined during flhase 1 UAT and Phase 2 development. It is unclear how the feedback from SMEs are used to update requirements documentation. 03/23/22: Phase 3 requirements gathering is resumed and the requirements deliverable was deferred to the end of March 20/22. DUR is in procurement for a new busines analyst contractor that will serve as a laison to external stakeholder and help to collect external stakeholder requirements for the Phase 3 portal. It is unclear how these requirements will be incorporated into DataHouse's Phase 3 requirements deliverable and development processes. Acculty will continue to evaluate the requirements documentation and processes.		
Cost, Schedule ar Resource Management	ad 2019.07.PM12	Milissue Mil	Mode Mode	ate Informal cost management practices may lead to unexpected costs or overpayments of contracts.	There is no formal cost management plan. A comprehensive total project budget in not readed, tracked, or reported. Currently, payments are tracked for the two mains CAST Project contracts. Charlactone SI are tracked for the two mains CAST Project contracts. To Statishouse SI are supported to the proper visual project programs and equipment are tracked informally as these are often paid from some contracts of the proper visual project	2019.07.PM12.R3	Prepare a comprehensive project budget and a schedule of long-term operational costs (e.g., seamont prepared to the cost of the cost reports for management and the executive steering committee. Clarify Datahouse payment terms and adjust payment schedules for schedule delays.		Open	Refer to prior IV&V Monthly Report for status updates before October 2021. 1024.021. Acculy decreased the severity rating from Level 1 flyigh to Level 2004. Quidedane). Datableuse is still prepaid for Plans 1 and 2? however, Datablouse provided revised plyment schedules which adjusts Phase 3 invoices to make corrections for Phase 1 and 2 amounts. DLR added additional costs to the budget report. 11/29/21 and 12/29/21: No updates to report. 01/25/22: DLR is currently procuring or evaluating the need for additional eCMS Project contracts. 02/24/22: DLR is upmouring two additional eCMS Project contracts improvement in cost management processes are needed to track and monitor other project costs. 03/23/22: Three additional DLR contracts are currently in procurement. ANS costs do not appear to be actively managed or monitored by DLR. Acculty will continue to monitor project costs, AWS costs (from finding 2019.07.ITO1), and cost management practices.		

ASSESSMENT			ORIGINAL							FINDING		CLOSED	
CATEGORY Cost, Schedule and	2019.07.PM13	TYPE	SEVERITY High	SEVERITY High	FINDING Inadequate schedule management	ANALYSIS The Phase 1 go-live dates were delayed a few times since the start of the	2019.07.PM13.R1	RECOMMENDATION Document and approve revisions to	SUPPLEMENTAL RECOMMENDATION	Open	FINDING STATUS UPDATE Refer to prior IV&V Monthly Report for status updates before October 2021.	DATE	CLOSURÈ REASON
Resource			-	-	practices may lead to project delays,	project with the Content Management go-live delayed five months and		project schedule deliverables,		l [*]			
Management					missed project activities, unrealistic schedule forecasts, or unidentified	the Case Management go-live delayed three months. Reasons for the delay provided by the eCMS Project team included additional time for		milestones, and go-live dates in accordance with the Project			10/26/21: The ESC approved the new project timelines. DataHouse updated the detailed project schedule tasks for the new timelines and		
					causes for delays.	requirements gathering, some Phase 2 work that was moved up to Phase		Management Plan.			added more detailed Phase 2 tasks.		
						1, staff vacations during the holidays, time for the DLIR Project Manager							
						to write the RFP for the IV&V contract, and delayed procurement of the scanners. Although there are reasonable explanations for some of the					11/29/21: The ESC approved to re-baseline the Phase 1 Content Management timeline again, deferring the go-live from December 2021 to		
						delays, detailed schedule variance analyses to understand causes and					January 2022. Phase 1 Case Management, Phase 2, and Phase 3 activities		
						impacts of the delays have not been thoroughly performed,	2019.07.PM13.R2	Refine the project schedule with		1	are moving forward but there are some delays in underlying tasks.		
						documented, or reported. Decisions or change requests to revise the project schedule are not properly documented or approved in		details of tasks, durations, phases, and assigned resources.			12/29/21: There are delays in both DLIR and DataHouse schedule tasks.		
						accordance with the Project Management Plan.		and assigned resources.			DLIR is behind on progress to complete Phase 1 Content Management and		
						DataHouse has prepared a higher-level project schedule and a more					Case Management UAT. DataHouse is behind on a couple of Phase 1 Content Management system documentation deliverables, Phase 2 build,		
						detailed task listing. Although the project schedule will need to be					and Phase 3 planning and requirements gathering. Both DLIR and		
						updated due to the recent DHS development and selection of an alternative solution, the following deficiencies were noted in the current					DataHouse plan to add or onboard additional resources to mitigate schedule		
						alternative solution, the following deficiencies were noted in the current project schedule:					delays. However, each delay in underlying tasks is further compressing time on an already aggressive schedule. It is unclear what the impact of the		
						* Does not include all project tasks such as Build stage sprints,					current DLIR and DataHouse task delays are on the overall timelines and if		
						communication, OCM, BPR, and quality assurance (refer to findings 2019.07.PM05, 2019.07.PM07, 2019.07.PM08, 2019.07.PM11, and					the revised go-live dates are achievable.		
						2019.07.IT05).					01/25/22: Schedule management is one of the issues with the greatest		
						* Does not include estimated durations. Durations are only included in the more detailed task listing.	2019.07.PM13.R3	Prepare regular schedule reports		+	impact to overall project performance and success. The Phase 1 Content Management is set to go-live as scheduled; however, some of the		
						* Only includes tasks for Phase 1. The Phase 2 and 3 tasks are only		and schedule variance analyses for			underlying tasks were deferred to be completed post go-live at the end of		
						included in the more detailed task listing.		management and the executive steering committee.			February 2022. The deferral of work increases schedule issues for other		
						 Specific assigned resources are not identified as only a generic DataHouse or DCD designation is used. 		steering committee.			phases, including Phase 1 Case Management which is currently at risk due to significant delays in UAT. It is unclear what the impact of Phase 3 delays		
											are. Improvements in schedule management practices are needed to		
											monitor schedule delays and evaluate root causes.		
											02/24/22: The Phase 1 Content Management system went live on January		
											26, 2022 for a small group of users. The Phase 1 Content Management		
											rollout for DCD users is on track for February 25, 2022. DLIR and DataHouse informed the ESC that the project schedule will require another rebaseline.	1	
											It is unclear what the new schedule will be. The project team will need to		
											improve their progress on Phase 1 Case Management UAT in order to avoid		
											further schedule delays. DLIR started to monitor testing progress by planning and scheduling out test cases each week. Additional		
										1	improvements in schedule management practices are needed to monitor		
							2019.07.PM13.R4	Complete assessment and revisions of project schedule.	•Revise tasks, deliverable milestones, and go-live dates for all three		schedule delays and evaluate root causes.		
								or project schedule.	 Evaluate whether remaining project work can be accomplished in the 		03/23/22: Phase 1 Case Management and Phase 3 tasks are delayed. Phase		
									remaining period of performance of DataHouse's contract or if the		2 is generally on track and slightly ahead of schedule. A revised project		
									contract needs to be extended. •Set realistic and achievable dates based on availability of DLIR project		schedule was developed but is still pending full DLIR and ESC approval. Proposed revisions will defer the Phase 1 Case Management go-live to June		
									resources.		2022, accelerate the Phase 2 go-live to November 2022, and compress the		
											Phase 3 timeline. The Phase 1 Case Management proposed June 2022 go- live is still quickly approaching and it is critical that plans and related tasks		
											are clarified and finalized in order to stay on track with a new schedule.		
											Additionally, the proposed project schedule should be reassessed based on		
											the latest status of underlying tasks to ensure that the proposed schedule is still realistic and achievable.		
											Accuity will continue to monitor the project schedule and schedule management practices.		
											management practices.		
Cost, Schedule and	2019.07.PM14	Issue	High	Moderate	Inadequate assigned project resources	Team Accuity was unable to evaluate resource workloads based on the	2019.07.PM14.R1	Reevaluate project resource needs	Perform project schedule updates for the alternative solution (refer to	Open	Refer to prior IV&V Monthly Report for status updates before October 2021.		
Resource Management					may lead to project delays, reduced project performance, or tumover of	project schedule information (refer to finding 2019.07.PM13); however, based on observations of the eCMS Project team, the DataHouse and		and acquire additional resources.	finding 2019.07.IT01) and missing tasks (refer to finding 2019.07.PM13). •Ensure resource levels and skill sets align to assigned tasks.	-	10/26/21 and 11/29/21: The proposed timeline is not based on an analysis		
					project resources.	DLIR Project Managers appear to be over-tasked. The DLIR Project							
											of available resources but rather on stakeholder needs for the new system.		
						Manager is the only full-time DLIR employee assigned to the eCMS					As such, additional DLIR project resources including area leads are needed		
						Project and understandably does not have time to perform all of the	2019.07.PM14.R2	Prepare regular resource reports for			of available resources but rather on stakeholder needs for the new system. As such, additional DLIR project resources including area leads are needed to achieve the aggressive timeline.		
						Project and understandably does not have time to perform all of the tasks to properly manage the project or represent DLIR during project activities. DLIR should increase participation in design and development	2019.07.PM14.R2	management and the executive	Consider including resource needs for unassigned tasks or roles. Consider including DUR resources needed and estimated hours for	-	As such, additional DLIR project resources including area leads are needed to achieve the aggressive timeline. 12/29/21: DLIR is looking to onboard additional testing resources and		
						Project and understandably does not have time to perform all of the tasks to properly manage the project or represent DUR during project activities. DUR should increase participation in design and development activities (refer to finding 2019.07.PM02) but would not be able to with	2019.07.PM14.R2	Prepare regular resource reports for management and the executive steering committee.	Consider including resource needs for unassigned tasks or roles. Consider including DUR resources needed and estimated hours for upcoming project activities (e.g., design sessions, user demonstrations,	-	As such, additional DLIR project resources including area leads are needed to achieve the aggressive timeline. 1229/21: DLIR is looking to onboard additional testing resources and procure additional data conversion resources. DLIR should also continue to		
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ASSESSMENT	SIMPLING ID	70/05	ORIGINAL	CURRENT	ENDING	ANALYZIA	arcollurus (Tion is	DE CONTRE LE LE CONTRE LE	SUPPLIEST A PECCHANISM FOR	FINDING	CHICKLE CATALIC INC. AT	CLOSED	SI OCUPE DE LEON
Quality 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 Quality Management Plan (version 0.1) was drafted by DataHouse on June 23, 2019 but was not yet approved by DUR. The draft plan did not include quality metrics, quality standards, or quality objectives of the project and does not describe how quality control results will be documented or propreted. Additionally, the Quality Assurance Lead identified in DataHouse's BAFO is not assigned to the project team at		RECOMMENDATION Finalize the quality management plan.	*Diabatious and Dia Rhould collaborate and agree on the quality management processes and metrics that will best serve this project. thicklide quality shandards or reference to specific criteria (refer to finding 2019 07.PM03). *Lipdate the project schedule to assign quality assurance resources (refer to finding 2019.07.PM14).	Open	FADING STATUS UPDATE Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21: DUI is working on establishing metrics for the Phase 1 Case Management data conversion validation testing results and for upcoming UAT.	DATE	CLOSURE REASON
						this time. As it is almost eleven months into the eCMS Project and several deliverables were already approved and many are pending approval, it is important for a quality management plan to be formalized and resources assigned to perform quality management activities.	2019-07.1705-82	Perform quality management activities on previously approved o submitted deliverables.			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. D.IR and DataHouse need to finalize their quality management plans and quality metrics. 01/25/22: Critical Phase 1 Content Management UAT issues were addressed for go-live but a number of pending issues are to be addressed post go-live. Quality review processes and quality metric thresholds are still unclear. 02/24/22: A number of technical issues were encountered good go-live with shee Phase 1 Content Management system including performance, reliability, functionality, and data. Quality management processes should be reassessed to help minimum production issues in future phases. 03/23/22: DUR 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 sepreferced with content Management. Acculty will continue to evaluate the quality management plan and activities.		
Configuration Management	2019.07.1T06	Risk	Moderate	Moderate	A lack of a configuration management plan may impact the performance and quality of the system if unauthorized or untested changes are promoted between environments.	A configuration management plan has not yet been drafted. DataHouse plans to prepare a configuration management plan by October 11, 2019. Based on the current project plan, the CMS Project was supposed to begin the Build stage of Phase 1. Although the recent DHS development will lakely dalsy the start of the Build stage, not having a configuration management plan in place increases the concern that changes may not be properly tested, accepted and approved which may impact system performance or quality.	2019.07.IT06.R1	Develop a formal configuration management plan.	*Ensure the plan is in accordance with IEEE 828-2012 - Standard for Configuration Management 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. DataHouse and DIIR should collaborate and agree on the configuration management plan purposes and processes that will best serve this project.	Open 3	Refer to prior IV&V Monthly Report for status updates before October 2021. 10/26/21: No updates to report. 11/29/21: DataHouse clarified that separate Case Management environments will be used for the different phase. Details of the environments will be used for the different phase. Details of the configuration management plan including the management of concurrent development is needed. 12/29/21, 01/25/22, 02/24/22, and 03/23/22: No updates to report. Acculty will continue to evaluate the configuration management plan and approach.		
Security	2019.07.1107	Risk	Moderate	Moderate	Not having an approved security management plan in place may impact the security and privacy of the data.	The Security Management Plan (version 0.0) was prepared by DataHouse on June 3, 2019 but was not yet approved by DUIR. Based on the current project plan, the eCNS Projects was supposed to begin the Build current project plan. The eCNS Projects was supposed to begin the Build the start of the Build stage, not having a security requirement plan a place may result in impropedly defined security requirements 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. *Dataflows and DUR should collaborate and agree upon the specific standards that will best serve this project.	Open	Refer to prior N&V Monthly Report for status updates before October 2021. 10.02.421. DataHouse provided an updated vidineability scan report that OUR conditionally accepted and approved as the configuration baseline. With the December 2021 Plase 1 Content Management golive quickly approaching. DUR needs to finalize the security management plan and M&O roles and responsibilities. 11.02.921: DUR 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. 12.02.921: No updates to report. 01.02.922: DUR and DataHouse documented critical security trasks in the go/no-go-checklist. 02.02.422: DataHouse completed the disaster recovery plan pending DUR's review and approval. 03.02.222: A clear plan for security management is needed especially for origining Plase 1 Content Management golive. Acculty will continue to evaluate the security management plans and documentation as they are finalized.		

ASSESSMENT			ORIGINAL	CURRENT						FINDING		CLOSED	
ASSESSMENT CATEGORY Project Organization and Management	PINDING ID 2019-09-PM01	TYPE Issue	ORIGINAL SEVERITY Moderate	CURENT SEVERITY Moderate	The documented change management process was not followed as prescribed	ANALYSIS The Project Management 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 0.7101 in Japendix D) and the revision of the Content Management go-live date were approved by JUR but not documented Change Requests or a Change Log. Additionally, the changes are management process does not have built in mechanisms to ensure this unpacted documents are updated for the changes are appropriately communicated to impacted stakeholdes.	RECOMMENDATION ID 2019.09.PM01.R1 2019.09.PM01.R2	RECOMMENDATION Document changes in Change Requests, with an impact assessment, and the Change Log in accordance with the Project Management Plan. Refine the change management process for greater clarify and effectiveness.	Consider acting thresholds or criteria for changes that go through different approval processes. *Define the different approval processes (e.g., project manager, product comers, Anage control back, steering committee). *Implement additional columns in the Change Log to ensure updates are made to all impacted project plans, documents, or deliverables and changes are communicated to all impacted stakeholders.	FANDING STATUS Closed	Refer to prior IV&W Monthly Report for status updates before April 2021. 04/27/21 and 05/27/21: No updates to report. 04/27/21 and 05/27/21: No update to report. 04/27/21 and 05/27/21: No update to report. 04/27/21: Dulk plans to combine all the pending Datacap related change expects into one change request related to the new Encapture solution. 07/27/21: DataFouse defafled the new Change request to document the writch from Datacap to Encapture, however, DILR has not yet approved the change request due to ongoing discussions of the proposed Content Management timeline. DataFouse should also document the resulting project schedule changes for Phase 18, 2, and 3 in a formal change request as prescribed by the Project Management Plan. 08/25/21 and 09/28/21: The Content Management change request is pending DILR approval. 10/24/21: Accupit decreased the severity rating from Level 1 (High) to Level 2 (Moderate). Although the details of the change request to switch from Datacap to Encapture were not updated. DataFouse decks and issues from the previous Content Management design deliverable to document how the replacement solution will addeces she lack of details in the change request. Additionally, schedule changes continue to not be documented in formal change request. Netwoever, DILR and DataFouse do present the high-level treelines to the SSC for approval. 11/29/21 and 12/29/21: No updates to report.	CLOSED DATE 1/25/2022	CLOSURE REASON Although change requests do not document changes in detail and change requests are not used to document may be considered to the control of t
Quality Management and Testing	2020.02.1T01	Risk	High	Moderate	and does not adequately inform DLIR of	DataHouse dathed the Test Plan Version 0.0, pending DLIR review and lapproval. The test plan does not include or clerify explain the following: *The scope of the test plan is incomplete (e.g., performance, load, outline, AMS emission personal incomplete (e.g., performance, load, outline, AMS emission personal thin the personal test plan is devine development (TDDI). *The security testing does not address all security requirements outlined in the DataHouse connector or verbally discussed with DataHouse (e.g., AMS vulnerability scan). *Specifics of the stat approach are not detailed (e.g., test design techniques for all testing types, automation testing tools, test data requirements, data exclubing procedure, metrics for test cases and coverage of cools. *Verball testing types, automation testing tools, test data requirements, data exclubing procedure, metrics for test cases and coverage of cools. *Verball testing types, automation testing tools, test data requirements under the project schedule are incomplete (e.g., verball). *Incomplete test device and the project schedule are incomplete (e.g., verball). *Incomplete test deliverables and unclear delivery (e.g., missing a test verball). *Incomplete test deliverables and unclear delivery (e.g., missing a test deliverable test management monitoring and control processes. *A naming convention of test documentation files is not established for easy retrieval and location. *A lack of clarify of DataHouse's testing approach may not allow DUR to appropriately develop their own test plan or ensure setting activities are adequately performed. Additionally, a lack of mutual undestanding and another, and testing activities.	2020 02.1701.#2	Clarify the test approach. Develop adequate test management processes and procedures.	Prefrom a deliverable review (refer to finding 2019.07.PM03) to ensure OLIR understands the test plan and scope. *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	the previous solution. Additionally, feedback and resulting redevelopment work during Content Management UAT did not result in additional DataHouse change requests.	12/29/2021	Closed as DUR accepted the risk valued to Dutat foose's clutified soppe of their testing and how Dutat-touce sering results will be provided to DUR.
System Software, and integrations	2021.03.IT01	base	High	High	Ongoing Content Management technical issues and solution analysis are causing project delays.	Inter December 2000, DLIR and Distaltoue have been performing various system analysis due to Phase I Content Management UAT stachnical Issues and user feedback. In Mach 2021, Distaltouse presented three options to the ESC for the Content Management solution including an option to replace and redevelop the Content Management serving and date sextraction component. DLIR planned to hold a special ESC meeting of March 25, 2021 to make a decision regarding the Content Management solution but posponed this in order to allow more time for additional analysis. The Content Management solution but posponed this in order to allow more time for additional analysis. The Content Management solution but posponed several times due to origining analysis and could potentially additional analysis. The Content Management gollier was posponed several times due to origining analysis and could potentially and the content Management solution analysis. The Content Management gollier was posponed several times due to origining analysis and could potentially and but the content Management gollier was posponed several times due to origining analysis and could potentially and but the content Management gollier was posponed several times due to origining analysis and could potentially and but the content Management gollier several description and analysis and agree upon how to proceed.		identify all major gaps in current solution. Complete the analysis of solution options.	Review the reported issues/defects in the UAT quality log, close resolved entries, and identify unresolved gase. *Review other project documentation and perform further system review to identify when major gaps. *Assign risk/criticality ratings for each identified gap. *Assign risk/criticality ratings for each identified gap. *Calabate how each option addresses all major gaps. *Databate should provide additional clafification and demonstration of the functionality to be provided by each of the options as it relates to the stand-alone Content Management solution and the integrated to the stand-alone Content Management solution and the integrated case Management solution and to identify limitations that are only temporary until additional functionality is provided in later phases. **Consider if additional options are needed based on the completed standard or the complete standard ore	Closed	AGZ/721: DataHouse is still working to investigate and address organic activation and activate the control and activate the control and activate the control presented by DataHouse and began to review unresolved issues from LAT to perform their gap analysis. DLR needs to work with DataHouse to swifty complete the analysis. DLR needs to work with DataHouse to swifty complete the analysis. DLR and DataHouse greed on a tentative plan and simeline of tasks to reach a decision regarding the Content Management solution by July 2021. 0A/25/21: DLR made the decision to replace and redevelop the Content Management solution by July analysis. 0A/25/21: DLR made the decision to replace and redevelop the Content Management solution and gap analysis. 07/27/21, 08/25/21, and 09/28/21: Completion of DLR's Content Management solution analysis is still pending. 07/27/21, A solution analysis is still pending. 07/27/21, A solution analysis is still pending. 07/25/21 A solution analysis is the bar perpared to formally document design deliverable to document how the replacement Content Management solution will also be addressed by the replacement solution. 11/29/21: DataHouse provided an architecture and workflow overview of the Encapture solution and confirmed the DataHouse functional testing varied that the pior Content Management solution susses will be receptive for the Encapture solution and confirmed that DataHouse functional testing varied that the pior Content Management solution susses will be replacement solution that the pior content Management solution to the replacement solution susses will be replacement of the replacement solution to the replacement solution to the replacement solution to the replacement solution and confirmed that DataHouse functional testing varied that the pior Content Management solution susses will be solution and confirmed that DataHouse functional testing the solution and confirmed that DataHouse functional testing the solution and confirmed that DataHouse functional testing the solution	11/29/2021	OUR-will not be preparing a formal out of compenhence solution analysis in concern, 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 worldflow overview meeting. The original precipitations are solutionary to the Encapture explacement to the Encapture explacement with the Encapture explanation with the Encapture explacement with the Encapture explanation with the Encapture

ASSESSMENT	EINDING ID	TYPE	ORIGINAL	CURRENT	EINDING	ANALYSIS	PECOMMENDATION ID	PECOMMENDATION	CUPPLEMENTAL PECOMMENDATION	FINDING	ENDING STATUS LIPDATE	CLOSED	CLOSURE REASON
Project Organization and Management	2020.03.PMO	11 Issue	High	Moderate	project execution although the extent of the impact to project costs and the project schedule as well as the potential	The COVID-19 pandemic has created uncertainty with respect to the tamely completion of the project and its cost. Understandably, DLIR has diverted project resources to the ILD boxish to respond to the layoutching minimor of unreplayment claims. This finding focuses on the algorithm of the COVID-19 specific to the cOMS Project. The following is a summary of the related events and facts: All eCMS Project meetings were cancelled beginning March 17, 2020.	2020.03.PM01.R1	Explore possible ways to keep the project moving forward with available resources.	Hevaluate DLR SMEs availability and bandwidth to work on the project. Honsider reshuffling of user stories in current and upcoming sprints and how to best utilize available DLR SMEs.	Closed	Refer to the June 2020 W&V Monthly Report for status updates prior to July 2020. 2020		Although there will continue to be impacts of the pandemic on costs, schedule, and resources, Accuity will continue to monitor these under the other existing findings (2019.09.PM12, 2019.07.PM12, 2019.07.PM.13, and 2019.07.14).
						following directives for non-essential state workers to stay home. Subsequent state wide stay a-know order were put into effect through April 30, 2020. Clumently only a few DLIR project resources, including the DCD Executive Sponnor and DLIR Project Manager, are still working in the office or remotively but their decidated by project work has been drived for their project of the project of the state of the formation of the project management activities. Key DLIR Subset Maner Experts SMD are currently unadiable to the eCMS Project. The DLIR SMS are critical to the Case Management system development process due to the valuable knowledge and input of business operations they provide to the development teams to clarify and sefine requirements. Many DLIR SMSs have been temporarily assigned to assist the University of the service of the service of section of the service of sections of the SMSs have been temporarily assigned to assist the University of several services of sections of several services of the SMSs have been temporarily assigned to assist the section of several services of sections of several services sections of several services sections of sections of several services sections several services sections several services several several several services several several services several several several s	2020 03 PM01 R2	Comulate a plan for how to respond to COVID-19 impacts to the project.	- Casafaviuse and DLIR, with input from the ESC, must come together to decide on how to best proceed. - Carefully assess the situation and individually log all of the specific impacts to the project in the risk register, including direct and indirect impacts. - Kelvaluate alternative courses of action and contingency plans for each specific impact identified. - Consider algalizing the frequency of communications and reviews of response plans to support the pace of evolving circumstances.		With recent increases in cases in Hawaii, circumstances could potentially evolve rapidly. While the plan to move forward with Phase 2 work gives chevilor applied, While the plan to move forward with Phase 2 work gives DataHouse more options to keep the project moving forward, some level of DIR project resources will always be needed. Making improvements for identified efficiencies (2020 OZ PMO1) in a few key foundational project processes including schedule management (2010 OZ PMO1), and and adjust to changes going forward. 08/21/20: DataHouse kicked-off Phase 2 requirements gathering sessions. With Phase 1 activities scheduled to resume simultaneously with orgoing Phase 2 activities, additional clarity is still needed regarding the path forward. Additionally, the worsening COVID-19 situation in Hawaii creates a lot of uncertainty with regards to DIR project resources and work arrangements. A clear undestranding of intended project activities as well as contingency plans for key project resources and youslate work-from home arrangements are essential to minimizing further delays. 09/28/20, 10/23/20, 11/24/20, 12/23/20, and 01/26/21: No updates to report. 09/28/20, 10/23/20, 11/24/20, 12/23/20, and 01/26/21: No updates to report. 09/28/20, 10/23/20, 11/24/20, and 05/27/21: DIR and DataHouse should consider the continuing impacts the CVDID-19 pandemic will have on the availability of DIR project resources as a part of the upcoming Content Management analysis and decision and while reportionity project gostave and priorities. 00/28/21, 10/24/21, 04/27/21, and 05/27/21: DIR and DataHouse should consider the continuing impacts the CVDID-19 pandemic will have on the availability of DIR project resources as a part of the upcoming Content Management analysis and decision and while reportionity project gostave and priorities.		
Project Togganization and Management	2020 08 PMO	1 Risk	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.	Dashfouse's updasted project management plan and project schedule was scheduled for completion in July 2020. The task is not seen to complete and there is no estimated timeline for completion. Some of the details of the Phase 2 planning were verbally discussed including Dashfouse'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 outland planning is needed. The current project management plan was last updated in August 2019 and many of the processes are outlanded on reed improvement (2020 O.7 MMOI). Additionally, the cLOS Project is now operating under completely additionally that the complete of t	2020 08 PM01 R1	Complete Phase 2 planning.	Fensure mutual understanding of Phase 2 plan and approach between DataHouse and DataHouse and Data House and Level and Phase 2 in the project schedule. *Consider building contingency plans for COVID-19 into the project management plan and processes.	Closed	00/28/20. Datahouse updated the project management plan to include some additional clearlise regarding flaves 2 deliverable and several project management processes. Additional clarification of project management processes (a. performance metrics, monitoring DLIR project resource workloads, resolving conflicts, or priorities for phases), contingency plans, and the project schodule are still needed. 10/23/20. Datahouse and DLIR discussed and clarified project management processes. In general, project performance metrics are not collected or monitored. Instead Datahouse primarily uses the project schedule to manage and monitored professions. Datahouse has no provided to the project performance of the project profession project performance of the project profession project performance of the project performance of the project performance of the project performance. Datahouse and DLIR damified project performance, Datahouse and DLIR damified project performance. Datahouse and DLIR damified project performance. Datahouse are not present project performance. Datahouse and DLIR damified project performance. Datahouse are not present the detahouse and DLIR damified project performance. Datahouse are not present the detahouse and DLIR damified project performance. Datahouse are not present the detahouse and DLIR damified the project performance. Datahouse are not present the detahouse and DLIR damified to the project performance. The datahouse and DLIR damified to the project performance and DLIR damified to the project performance. The datahouse and DLIR damified to the project performance and DLIR damified to the project performance. The datahouse and DLIR damified to the project performance and DLIR damified to the project performance. The project performance and DLIR damified to the project per	2	Closed as DataFouse and DUR discussed project management processes. The need for a more detailed Phase 2 project schedule and improvements in project management processes will continue to be monitored under the 2019 0.7 PM14 Schedule Management, 2019 0.7 PM14 Schedule Management, 2019 0.7 PM14 Resources, and 2019 0.7 PM14 Indeequate Management fundings.

ASSESSMENT CATEGORY		TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Project Organization and Management	2020.02.PM01			N/A	The DataHouse Case Management development team works very collaboratively with DLIR and demonstrates commitment to continuous improvement resulting in smoother project execution and increased transparency.	The Scurum methodology employed by the Datablosus Case Management development team inherently promotes collaboration, open communication, transparency, and process improvement through built in daily stantal and and retrospective meetings. Over and above this, the Case Management development team members don't just go through the exercise of Scrum meetings but really embrace the spirit of the methodology. The Case Management development team members have: **Worked Cosely with DLIR subject matter openets (SMEs) to ensure use and business needs are thoroughly understood. **Encouraged DLIR SMEs to really explore opportunities for business process improvements, initiations, and benefits as well as ways the design considerations, initiations, and benefits as well as ways the design considerations, initiations, and benefits as well as ways the standard or the subject of the subject o	N/A	N/A for positive findings.	N/A for positive findings.	Closed	N/A	3/27/2020	Closed as this is a positive finding.
System Software, Hardware, and integrations	2019.09.1T01	Positive	N/A	N/A	The DataFourae team's swift and adaptive response to issues and risks aminimized impact and further delays to project development.	Many members of the Datablosus team have contributed to the following success: "Secured a replacement Content Management hosting infrastructure solution. This included presenting the replacement solution, facilitating responses from and meetings with AWS, answering the Office of Enterprise Technology Services (TS) security questions, and updating sealings from a property with AWS, answering the Office of Enterprise Technology Services (TS) security questions, and updating sealings of the Contrology Services (TS) section (TS) and a security rate and student for the PAW Initial Report. The team's feltor to address many risks and susus are summarized in Appendix D. Additionally, DataHouse's willingness to peny project team meetings to both DUR and AVBV and time taken to address DUR, PAW, and ETS concerns have greatly contributed to the progress made since the Initial Report. **Demonstrated commitment to DUR and project success. This includes the Content Management development team's flooibility in performing project work to accommodate the delays in the WC forms and the Case (TS) and the Content Management development team's flooibility in performing project work to accommodate the delays in the WC forms and the Case (TS) and the Content Management development promises have demonstrated their commitment to doing what's beat for the project and have even proposed ways to further improve the solution leveraging their extensive technical knowledge and experience. The DataHouse team's actions have helped to minimize impacts and the Case (TS) and the Case (T	N/A	N/A for positive findings.	N/A for positive findings.	Closed	N/A	10/25/2019	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 leadership that has, to an extent, compensated for the lack of formal governance feler to finding 2019.07 P002 and other project deficiencies noted throughout this report. However, as important as good posnosofish ip, this factor alone can not be relied upon to guarantee project success.	N/A	N/A for positive findings.	N/A for positive findings.	Closed	N/A	9/20/2019	Closed as this is a positive finding.
Governance Effectiveness	2019.07.PG02		Moderate	N/A	The lack of a formal executive steering committee and change control board may limit the effectiveness of project governance.	The Dastiouse proposal and Project Management Plan (version 1.2) make reference to a steering committee, however, a formal committee was not chartered. Currently, the DCD Executive Sponsor is assigned the authority in the Project Management Plan to approve all project changes.		Assemble and formalize an executive steering committee.	The size and selection of committee members should balance the expresentation of key stakeholdes 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 steering committee charter. *Consider the need or ease of creating a change control board with a subset of the committee for certain types of decisions.	Closed	97/20179. Acculy decreased the severity rising from Levil 2 Moderate) to Levil 3 (Jov). The CMS Executive Setting 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. 10/251/9. The October 11, 2019 ESC meeting was effectively run by the DOD Popics Sponsor to discuss key rick and saves and to align the cOMS Project direction with DUR and ETS stargie; objectives. The hresholds for decisions that require committee attention were also established.		
Governance Effectiveness	2019.07.PG03	Risk	Moderate	N/A	The unclear DataFouse contract terms may limit objective evaluation of contractor performance and contract fulfillment.	The procurement of the System Integrator (SI) for the aCMS Project was performed by DLR EDFO and networks by ETS. The RFU EDFO and provinged by ETS. The RFU EDFO and provinged by ETS. The RFU EDFO and provinged by ETS. The RFU EDFO and DataHouse contract does not clearly outline expected deliverables, we availation criteria for accepting deliverables, and clear deliverables of roles and responsibilities. There has already been confusion or noise and responsibilities. There has already been confusion of manufacetamentage due to unclear contract terms in the areas of form design, via and issue tracking lefer to finding 2019 7.7 MEJ 10, MEJ	2019-07-PG03-R1	Evaluate the need for a contract modification to clarify contract terms.	Consider including key project documents as deliverables such a si- requirements management plan and requirements traceability matrix. IRTM (feefer to finding 2019.07.PMIO), risk and issue log (refer to finding 2010.07.PMIO), and testing documentation. *Consider including acceptance criteria based on industry standards. For example, the acceptance criteria based on industry standards. For example, the acceptance criteria could be compliance with Institute requirements to acceptance criteria out of the 2019.07. PMIO (2019.07.PMIO) *Consider including measurable success metrics (refer to finding 2019.07.PGIO). *Consider the need to outline roles and responsibilities between DLIR and DataHouse (refer to finding 2019.07.PMIO2).	Closed	09/20179 - OUR has decided to address this finding through updates of project plans. Datablouse has shown an openness to develop and continuously improve project deliverables including project plans. Roles and responsibilities have been more openly discussed and plan to be incorporated within project plans. Furthermore, success and quality metrics are being disfind within will also be an additional method for evaluating contractor performance and fulfillment.	9/20/2019	Closed as DLR will address. Through project plan updates. The need for Carlification of roles and responsibilities as well as acceptance criteria and success menters will continue to be promised to the project plan update. The project Cognitation to the Project Cognitation of the Project Cognitation. 2019 07 PM02 Project Cognitation. 2019 07 PM03 Deliverable Review, and 2019 07 IPM03 Deliverable Review, and 2019 07 IPM03 Telliverable Review.
Governance Effectiveness	2019.07.PG04	Risk	Low	N/A	The lack of guidelines, theodists, and shared project assets may reduce project performance and efficiency.	Large IT projects are not a regular occurrence for many State departments. Often times project resources are assigned from within the departments that have valuable organizational and operational knowledge but do not have the necessary project management separations. The projects would greatly benefit even documents from past State projects would greatly benefit even experience. Playing teams. ETs, as the State of Hawaii ST oversight office, 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 suppor needs and responsibilities.	- Discuss what resources, guidance, and shared project assets would be most helpful to DUR Discuss what project assets DUR can provide to contribute to the development of a centralized project management library Consider involving the project steam; committee to align and clarify ETS vs. steering committee governing roles.	Closed	97/20179: ETS began sharing best practices and lessons learned with DLIR noticularly taking the DLIR Project Manager to sprint meetings for another State project. ETS is a member of the newly formed cMS Executive Steering Committee (ESC) and will use that shelicit to share lessons learned with DLIR. Additionally, DLIR is floreing to DLIR IT Sering Committee to provide oversight to all DLIR IT projects. The DCD Executive Sponsor is a member of that DLIR committee and plants to share eCMS lessons learned and project templates with other DLIR IT projects.	9/20/2019	Closed as discussions occurred with ETS and the risk is adequately mitigated with the planned course of action.

ASSESSMENT	EINIDING ID	TVDC	ORIGINAL	CURRENT	EINDING	AMALYEIC	DECOMMENDATION ID	BECOMMENDATION	CURRENTAL RECOMMENDATION	FINDING	ENDING STATUS UPDATE	CLOSED	CLOSURE REASON
Benefits Realization	2019.07.PG06	Risk	Low	N/A	Failure to align statutes with the «CMS Project modernization objectives may reduce the operational improvements that are achieved.	the CASE Project's primary modernization objective is to move to a propriess and automated bavines process. The new system is being designed to allow for electronic filing, routing, and tracking of forms. Whoever, current disability compensation asstates 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 setternal users such as clamants, employers, and insurance companies. As the development of a portial for public filling will not begin until Place 3, his risk is not as imminent. However, as the evaluation of potential impacts, collection of feedback from stakeholders, and the legislatery process to amend statutes is a long process, the initial planning should begin as anyly as possible or as not to pospone 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.		Closed	09/20/19 in 2016, QLIII convened a Working Group (MQ) consisting of suppresentatives from various DCD-related stakeholder groups. The WG provides an avenue for DLII to understand stakeholders concern and a forum for the stakeholders to understand stakeholders concern and a forum for the stakeholders to understand the DLIR's business process improvements including the need for statutorily mandated electronic claim filings. 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 prosactively involve stakeholders in testing production and provide stakeholders the appropriate time to ready their systems for electronic filing.	9/20/2019	Coxed as DUR has a plan to align statutes with eCMS Project objectives.
Project Organization and Management	2019.07.PM01		N/A	N/A	The DUR Project Manager is a dedicated project lead who works collaboratively with internal stakeholders.	The DLIR Project Manager is hardworking and has continually demonstrated dedication to the project and an eagerness to learn. Additionally, the DIR Project Manager has some of the necessary eachership qualities that make her a good project manager. Her positive concerns of many internal stakeholders. This has mitigated some of the communication and COM risks feller to findings 2019 07 PM07 and 2019 07 PM08. However, the DLIR Project Manager is the only full-time DLIR employee assigned to the eCMS Project and there is not a sufficient amount of project treasures feller to finding 2019 07 PM14) to properly manage the project.	N/A	N/A for positive findings.	N/A for positive findings.	Closed	N/A	9/20/2019	Closed as this is a positive finding.
Project Organization and Management	2019.07.PM04	Issue	High	N/A	Data House proposed a solution on the BAFO without obtaining a writer letter of intent between DataFouse and DHS Furthermore, the CMS Project advanced for 10 months without a formal MOU between DUR and DHS and reliance on the DataHouse Project Sponsor to lead the discussions due to her experience with DHS.	leverage DHS's IBM FileNet environment, however, there was no written agreement between DataFlouse and DHS that supported DHS intertio support shared services. Once the eCMS Project was underway, the MSO discussions with DHS were primarily led by the DataHouse Project Sponsor. The eCMS Project advanced for 10 months without finalizing	2019.07.PM04.R3	Finalize the MOU to leverage DHS's enterprise licenses for FileNet and Datscap. Dull it should lead all discussions and negotiations of vendor contracts or agency agreements. Identify and complete all crisical tasks prior to moving forward with an alternative solution.		Closed	09/20/19: The MOU with DHS for Datacap and Flielhet Icenses is close to being finalized. DIM received a drift from DHS on September 1, 2019 and it was sent to the Attorney General's office on September 17, 2019. Acculty has observed that DUR has led the contract discussions and negotiations with AWS.	9/20/2019	Closed as the MCUL with DHS is in process to be finited and DLR its leading contractor negotiations. The ecommendation to identify all critical tasks will continue to be monitored under the 2019 07 PM13 Schedule Management finding.
Project Organization and Management	2019.07.PMOS	Risk	Moderate	N/A	A lack of clarity on Datablouse's development methodology may not allow or adequately prepare stakeholders to participate readily.	DataTouse is using a modified Aglie development methodology that is referred to as "Where-Cours-Pail". This is a combination of the waterfail and Aglie methods that defines the full set of requirements at the beginning but uses Aglie user sorties and aprints while building the software. Based on the current project plan, the CMS Project was supposed to begin the Build stage of Phase 1 and transition to the Scrum methodology. Although the recent DHS development will likely delay take kickfoff of this tage, there are a number of concerns regarding the transition to the Scrum methodology. **The Project Schedule also does not yet reflect the aglie sprints cycles or identify resources who are expected to participate. **There have not been communications with the DLIB project team and stakeholden regarding the Scrum methodology or the roles and responsibilities they have during this stage of the project. **Many of the DastHouse project team membes work remotely and are unable to work no are.		Communicate the approach for executing Scrum phases. Communicate the approach for executing Scrum phases to all team members and impacted stakeholders.	Consider industry best practices for Agile methodologies such as tertospectives, daily standaps, bumdown charts, and frequent user demonstrations and feedback. *Establish the backlog preparation and refirement process. *Establish vitual conferencing tools and communication protocols for geocaphically distributed team methes. *Set the number and length of the sprints. *Update the project schedule for sprint activities and assign resources (refer to finding 2019.07.PM.14). *Include clear and detailed procedures and roles and responsibilities for Scurn tasks (refer to finding 2019.07.PM.02). *DUS should be included in project team activities (refer to finding 2019.07.PM.02).		09/20/17- Acculy has kept the seventy rating as Level 2 (Moderate). Although DataNeus has incorporate the Case Management spirit schedule into the overall project schedule and provided a high-level overeliev of the requirements/user stories to be covered by seath spirit, roles and responsibilities still need to be clearly defined and communicated. The Case Management development team follows a classic Sorum model and plans to Carlify roles and responsibilities of Product Owners and users, how new requirements will be approved and prioritized, and acceptance criteria during the next user review and Epic 2. The Content Management development team follows a semisagle process and daffect an overview document of the team's change management practices. 10/25/19: The Case Management development team held a training for the DUIR Product Owners to provide an overview of the Scrum methodology and the Product Owner role and responsibilities.	10/25/2019	Cosed as the Scrum methodology has been formalized and was communicated to the DUR CRMS Product Cowner. Dre recommendation to communicate the methodology of all impacted stakeholders will continue to be monitored under the 2019 07. PMOT Stakeholder Communications finding.
Business Process Reengineering	2019.07.PM11	Risk	Moderate	N/A	Not identifying and addressing BPR opportunities prior to system design and development may require additional effort to correct.	There is no formal plan for BPR activities. DataHouse's approach to BPR was to start with the current state process maps, wallthrough the process with talakholders, and make updates to the process maps. As a result of this process, DataHouse provided future state process maps. Holweyer, Team Accupit was unable to clearly understand how processes were prioritized for change, not causes were addressed, or processes were improved less, elimination of rework loops). Business process improvement is a key deliverable identified in the RFP and in DataHouse's contract. The DataHouse contract states that the key deliverable will be manifessed through; faster throughput of data into the system; dates contract. The DataHouse contract states that the key and in DataHouse's contract. The DataHouse contract was present of the process of the proces	2019-07-PM11-R1	identify and track BPR opportunities in a log.	This log should be used to plan BPR and design activities and to develop content for communications and training.	Closed	09/20/19: Acculy has kept the severity rating as Level 2 (Moderate) as a process or tool for tracking BPR changes for future communications and training has not been created. 10/25/19 and 11/22/19: BPR opportunities continue to be discussed during spirit 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 user stories resulting in significant BPR can be identified for communications and training.

ASSESSMENT			ORIGINAL	CURRENT						FINDING		CLOSED	
CATEGORY		TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	DATE	CLOSURE REASON
System Software, Hardware, and	2019.07.IT01	Issue	High	N/A	The original solution proposed by DataHouse in their BAFO to leverage	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	2019.07.IT01.R1	Evaluate other total solution alternatives for an alternative	Consider solutions that could include other technical applications that could utilize a different choice of methodology using different tools,	Closed	09/20/19: In July 2019, DataHouse presented AWS as a potential alternative solution. The proposed AWS solution was compared to another	9/20/2019	Closed as a replacement solution was approved by DLIR. As a
Integrations					the existing DHS FileNet hosting infrastructure is no longer a feasible	environment. Under the original solution, DHS would monitor and maintain the enterprise IBM FileNet environment. As DHS will no longer		solution.	provide a cheaper solution for the longer-term, and faster implementation.		cloud solution, Microsoft Azure, in respects to cost and performance. Data House reviewed the listing of content management solutions provided		comprehensive analysis was not prepared and there is still a need
					solution.	be providing access to their IBM FileNet environment, DLIR will need to identify resources to take on the monitoring and maintenance of the IBM			Consider the following website which lists 20 competitive alternatives to IBM FileNet for consideration: www.q2.com/products/ibm-filenet-		by Accuity and concluded that IBM FileNet was the best solution for this project; however, no formal analysis was prepared. DLIR approved AWS as		for additional clarification regarding certain aspects of the
						FileNet infrastructure. As DataHouse recommended in the BAFO the on-			content-manager/competitors/alternatives. Additional research could		the replacement hosting infrastructure solution effectively remediating the		replacement solution, Accuity will
						premise installation for the IBM ECM solution due to the capture volume and higher performance of document file transfers over the LAN and	2010 07 1701 02	Donato de la constanta de la c	result in more extensive choices going forward. •Include the impact of the alternative solution to project cost, schedule,		inability to leverage the DHS FileNet environment issue.		continue to monitor plans for AWS security under finding
						internal State network, DLIR should be provided with a technical analysis of various solution options that includes a comparison of the alternatives	2017.07.1101.102		resources, security, maintenance and operations, system software,		Accuity had also recommended that a comprehensive technical analysis be prepared on the replacement solution; however, DLIR decided not to		2019.07.IT07, AWS M&O roles and responsibilities under the new
						on performance.			hardware integration requirements, performance requirements, and required infrastructure to ensure a complete and successful working		formally document the analysis as they are comfortable with the selection based on reading of AWS whitepapers, the information provided by		preliminary concern 2019.10.IT02, and AWS costs under finding
						Although this issue relates to the proposed hosting infrastructure solution for Content Management, this is an opportunity for both DataHouse and			oclution. •Clearly define what needs to be completed, who is responsible, steps		DataHouse, and discussions with ETS and EDPSO.		2019.07.PM12.
						DLIR to reassess the total solution considering all updated technological opportunities available today. DLIR should ensure that DataHouse			for completion, and timing. •Considerations for impact on project cost includes costs related to the				
						performs sufficient analysis regarding possible alternative solution options. DLIR should also take the time to perform adequate due			following: * Processing, storage and connectivity				
						diligence before making any decisions. It is important that thorough analysis and adequate due diligence is performed before moving			Operating system and database management licensing Interfacing technologies				
						forward in the project in order to avoid further project delays and to ensure that the delivered system will meet operational and stakeholder			Maintenance and operations Data center, collocation facilities and availability requirements				
						requirements.			* If it is decided that FileNet is the most cost effective and efficient solution, renewal and ongoing costs of FileNet enterprise licensing				
									Considerations for impact on project schedule, time estimates, and resources include:				
									* Acquisition, installation, and configuration of software and infrastructure				
									* Ongoing maintenance and operations (patching, updates) * Performance of security assessments				
									* Change and configuration management				
Design	2019.07.IT03	Issue	High	N/A		Case Management is currently in the design phase and design documents have not been provided. The Content Management Design (version 1.0) approved by DLIR on May 6, 2019. The recent DHS	2019.07.IT03.R1		Consider updates for revised requirements documents (refer to finding 2019.07.FM10) and for the alternative Content Management hosting infrastructure solution (refer to finding 2019.07.IT01).	Closed	09/20/19: Accuity decreased the severity rating from Level 1 (High) to Level 2 (Moderate). DataHouse updated the Content Management Design Document to include additional, more detailed requirements. As noted	10/25/2019	Closed as the Content Management design documents are regularly updated as changes
					, , , , , , , , , , , , , , , , , , , ,	development will require design documents to be updated after an alternative Content Management hosting infrastructure solution is					above at finding 2019.07.PM10, DataHouse is in the process of updating the requirements documentation to include all requirements from the		to requirements are made. The completeness of the design with
						selected. However, even prior to this development, the Content Management design documents were drafted based on requirements					DataHouse contract.		respect to contract requirements will continue to be monitored under the 2019.07.PM10
						documentation that is incomplete (refer to finding 2019.07.PM10). The requirements document deficiencies should be remediated immediately					10/20/19: The Content Management Design Document (version 1.2) was updated to refine or add requirements.		requirements finding.
						and the design documents updated accordingly.							
Data Conversion	2019.07.IT04	Risk	Moderate	N/A	A Content Management data conversion plan that is based on	Case Management is currently in the design phase and data conversion documents have not be drafted. The Content Management Conversion	2019.07.IT04.R1	Update the Content Management data conversion plan.	Consider updates for revised requirements documents (refer to finding 2019.07.PM10).	Closed	09/20/19: Accuity has kept the severity rating as Level 2 (Moderate). The Content Management Conversion and Migration Plan (version 1.1) was	11/22/2019	Closed as changes in system requirements do not appear to
					incomplete, inaccurate, and outdated requirements may impact the data	and Migration (version 0.0) document was drafted by DataHouse on June 13, 2019 but was not yet approved by DLIR. The document was drafted		·			updated on 09/05/19 before the Content Management Design Document (version 1.1) was updated on 09/15/19 to include additional design		significantly impact the Content Management data conversion plan.
					migration design process and require additional effort to correct.	based on requirements documentation that is incomplete (refer to finding 2019.07.PM10). Furthermore, the Content Management					requirements. Changes to requirements should be evaluated for the impacts on the conversion and migration plans and the detailed taxonomy		
					- Conce	Conversion and Migration (version 0.0) document included a risk that changes to the requirements after a certain point in the project may					mapping.		
						cause additional effort to re-factor the migration design process.					10/25/19: DataHouse evaluated the new requirements and determined that there is no impact to the high level Content Management conversion		
						As data conversion is the process of converting data from one source to suit the system requirements of another, it is important that the data					requirements included in the Conversion and Migration Plan.		
						conversion plan is based on accurate system requirements. The requirements document deficiencies (refer to finding 2019.07.PM10)					11/22/19: Accuity reviewed the taxonomy mapping with the primary stakeholder and confirmed that changes in system requirements will not		
						should be remediated immediately and the data conversion plan updated accordingly.					have a significant impact on the Content Management data conversion plan as the legacy system has limited data fields that are currently used.		

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



Appendix F: Comment Log on Draft Report



Appendix F: Comment Log on Draft Report

DLIR DCD eCMS Project: IV&V Document Comment Log





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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