

Management System (eCMS)

MONTHLY ON-SITE IV&V REVIEW REPORT

REPORT FINALIZED

November 24, 2020 | Version 1.0

January 13, 2021







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Document History

DATE	DESCRIPTION	AUTHOR	VERSION
12/04/20	Monthly On-site IV&V Review Report Draft created	Julia Okinaka	0.0
01/13/21	Monthly On-site IV&V Review Report Final updated to reflect no comments submitted in Appendix F. Corrected document title listed in Appendix C and severity rating in Appendix D.	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.

Phase 1 development and testing activities and Phase 2 requirements activities continued. The focus of our IV&V activities for this report included the completion of a two-month in-depth assessment of training and system development and the beginning of a two-month assessment of quality management and testing. 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 November 24, 2020. 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.

PERSERVERANCE

"You never fail until you stop trying."

- Albert Einstein



PROJECT ASSESSMENT

AS OF NOVEMBER 24, 2020

SUMMARY RATINGS

OVERALL RATING



Deficiencies were observed that merit attention and remediation in a timely manner.

PROGRAM GOVERNANCE



PROJECT MANAGEMENT



TECHNOLOGY



CRITICALITY RATINGS

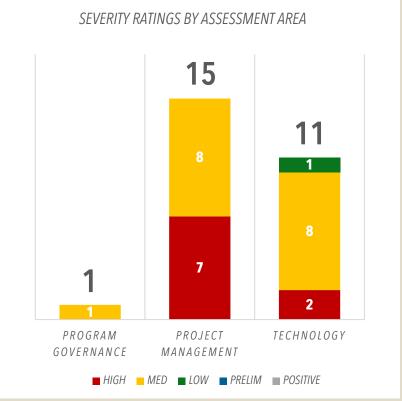




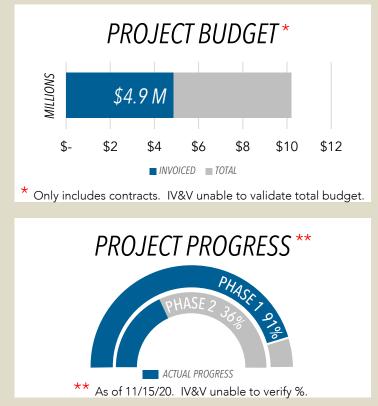


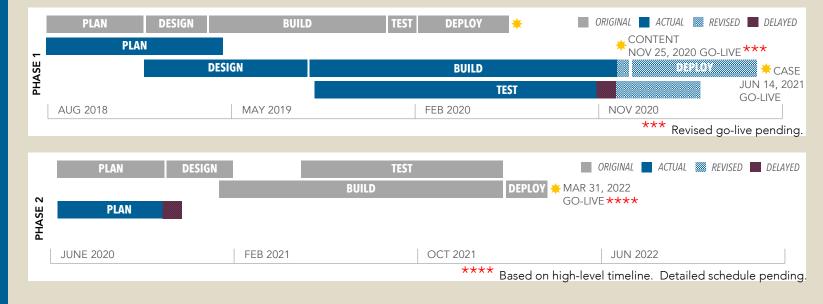


27 OPEN FINDINGS



45 OPEN RECOMMENDATIONS





ASSESSMENT AREA & RATINGS SUMMARY

AS OF NOVEMBER 24, 2020

SEP	ОСТ	NOV	IV&V ASSESSMENT AREA	IV&V OBSERVATIONS
Y	Y	V	Overall	The Phase 1 Content Management go-live on November 25, 2020 was postponed due to additional time needed to resolve technical issues. DLIR and DataHouse are currently evaluating options for a revised go-live date in early 2021. Additionally, DLIR project resources continue to have limited availability due to other DLIR organizational priorities.
				Project Schedule: Phase 1 Content Management and Phase 2 tasks are delayed while Phase 1 Case Management remains mostly on track. A revised project schedule is 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; however, payment schedules were not revised for changes in deliverable timelines. Accuity is unable to fully assess cost variances (refer to finding 2019.07.PM12).
				Quality: DLIR established success metrics but has not yet finalized quality metrics (refer to finding 2019.07.IT05). Accuity will evaluate progress towards achieving project goals when DLIR begins to collect metrics data.
G	G	G	Program Governance	The eCMS Project Executive Steering Committee (ESC) convened for the monthly meeting to discuss major risks and issues.
	R	R	Project Management	DLIR project resources are challenged with balancing on-going Phase 1 Content Management and Case Management and Phase 2 activities along with high DLIR operational workloads. Limited availability impacts the DLIR project resources' ability to timely complete and be fully engaged in project work. Additional DLIR stakeholder input and feedback are critical for developing a quality system and for overall project success. Strong foundational project management processes including resource, schedule, communications, and risk management (refer to Appendix D: Prior Findings Log) are key for optimizing limited DLIR project resources and minimizing further schedule delays. DLIR clarified their training plans and the Phase 1 Content Management training was rescheduled to be completed in December 2020. The Phase 2 requirements deliverable was also rescheduled to be completed in December 2020.
Y	Y	₩	Technology	DataHouse resolved most of the technical issues encountered in the prior month related to the Phase 1 Content Management solution and held a demo for DLIR to verify functionality. Additional remediation work is expected to be completed in December 2020. Phase 1 Case Management development is progressing as scheduled. DLIR is behind on drafting the test cases for both Content Management and Case Management user acceptance testing (UAT). DLIR and DataHouse clarified testing plans and system development issue tracking processes. DLIR also completed a preliminary security risk assessment and high-level plan for security. DLIR and DataHouse still need to clarify quality management processes and metrics as well as plans for conversion of paper case files. IV&V does not have adequate visibility of development, testing, and data conversion activities to fully assess methodologies and progress.

FINDINGS AND RECOMMENDATIONS BY ASSESSMENT AREA



OVERALL RATING

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. Two IV&V Assessment Categories improved and one declined from the prior report. The overall rating primarily reflects the Phase 1 Content Management and Phase 2 requirements delays, limited DLIR project resources, and the need to improve many foundational project processes. DLIR and DataHouse continued to make progress to clarify processes and formalize plans in areas such as testing and security.

AT-A-GLANCE

Content Management go-live **POSTPONED**

REVISED project schedule pending

LIMITED availability of DLIR project resources

Improve
FOUNDATIONAL
project processes

SEP	ОСТ	NOV	PROGRAM GOVERNANCE	
G	G	G	Governance Effectiveness	
(1)	Y	Y	Benefits Realization	
SEP	ОСТ	NOV	TECHNOLOGY	
Y	₩	₹	System Software, Hardware, and Integrations	
G	G	G	Design	
1	1	1	Data Conversion	
R	®	®	Quality Management and Testing	
		Y	Configuration Management	
R	R		Security	

SEP	ОСТ	NOV	PROJECT MANAGEMENT
R	R	R	Project Organization and Management
R	R	R	Scope and Requirements Management
R	R	R	Cost, Schedule, and Resource Management
Y		Y	Risk Management
R		Y	Communications Management
Y		Y	Organizational Change Management (OCM)
G	G	G	Business Process Reengineering (BPR)
NA		Ŷ	Training and Knowledge Transfer



PROGRAM GOVERNANCE

Governance Effectiveness

Benefits Realization



SEP	ост	OCT NOV	OCT NOV IV&V ASSESSMENT	IV&V ASSESSMENT	IVAV ORSERVATION	FINDINGS		
SEP	OCI	NOV	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED	
G	G	G	Governance Effectiveness	The eCMS Project Executive Steering Committee (ESC) continues to meet monthly to discuss project updates, risks, and issues. ESC guidance and oversight are needed to help the project find workable options with the limited budget and resources.	0	0	0	
1	Y	Y	Benefits Realization	No significant updates since the prior report. DLIR still 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

SEP	ост	NOV IV&V ASSESSMENT IV&V OBSERVATION	ı	S			
SEF	OCI	NOV	CATEGORY		NEW	OPEN	CLOSED
	R	R	Project Organization and Management	Project organization and management continues to be a challenge as DLIR and DataHouse try to find ways to keep Phase 1 and Phase 2 activities moving forward with the COVID-19 pandemic still limiting the availability of DLIR project resources (2020.03.PM01). Strong foundational project management processes (refer to Appendix D: Prior Findings Log) are critical to optimizing project performance and achieving project timelines. DLIR and DataHouse made progress to address some of the prior IV&V findings (2020.07.PM01) including finalizing a key change request (2019.09.PM01), holding a walkthrough meeting for a key deliverable (2019.07.PM03), and planning and holding additional meetings to improve collaboration (2019.07.PM02).	0	5	0
R	R	R	Scope and Requirements Management	The Phase 2 requirements deliverable is still in process and DataHouse is now targeting completion in December 2020. DataHouse continued to refine Phase 1 requirements with DLIR Subject Matter Experts (SMEs) and also clarified the traceability of Phase 1 requirements to other documents and testing results. Phase 1 requirements traceability (2019.10.PM01) and documentation (2019.07.PM10) need additional improvement. DLIR's review of their third-party vendor's requirements assessment results is still pending.	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

SEP	EP OCT NOV		NOV IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS			
3EP	OCI	NOV	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED	
R	R	R	Cost, Schedule, and Resource Management	The Phase 1 Content Management go-live on November 25, 2020 was postponed due to additional time needed to resolve technical issues. DLIR and DataHouse are currently evaluating options for a revised go-live date in early 2021. There are also delays in Phase 2 requirements and select Phase 1 Case Management tasks. Improving schedule management processes (2019.07.PM13) are key to minimizing further schedule delays. Inadequate DLIR project resources (2019.07.PM14) continues to impact the eCMS Project. DLIR project resources are challenged with balancing on-going Phase 1 Content Management and Case Management and Phase 2 activities along with high DLIR operational workloads stemming from the COVID-19 pandemic (2020.03.PM01). Limited availability impacts their ability to timely complete and be fully engaged in project work including reviewing and providing feedback on the system build. DLIR stakeholder input and feedback are critical for developing a quality system and for overall project success. DLIR and DataHouse are planning to schedule additional meetings to provide a more structured schedule for DLIR project resources to perform system reviews and to increase engagement in the project. Effective resource management (2019.09.PM02) is key to optimizing limited DLIR project resources. Improvements are needed to track and monitor all project costs and adjust payment schedules for changes in deliverable timelines (2019.07.PM12).	0	4	0	
Y			Risk Management	DLIR and DataHouse continued regular discussions of risks and made some progress to address previously identified IV&V risks and issues (refer to Appendix D: Prior Findings Log). Timely execution of remediation plan tasks is still needed (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

CED	SEP OCT NOV		V IV&V ASSESSMENT	IV9V ODSERVATION	FINDINGS		
SEP	OCI	NOV	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED
R			Communications Management	Weekly meetings with electronic submission pilot group stakeholders continued; however, the planned Phase 1 Content Management daily standup meetings between DLIR and DataHouse were postponed to begin in December 2020 due to changes in the go-live timeline. DLIR and DataHouse are also planning to schedule additional meetings in December 2020 with DLIR project resources to increase engagement and feedback on the system build. Effective and timely communications with all impacted stakeholders (2019.07.PM07) and in all areas of the project (2019.07.PM06) are still needed.	0	2	0
Y	Y		Organizational Change Management (OCM)	Some OCM is occurring as an indirect result of other project communications and participation in on-going project meetings. A more structured OCM approach is still needed (2019.07.PM08) to ensure stakeholders accept and embrace changes.	0	1	0
G	G	G	Business Process Reengineering (BPR)	BPR improvements continue to be delivered through development sprints. IV&V does not have a complete understanding of the BPR approach during the requirements stage and will review the Phase 2 requirements deliverable expected in December 2020 to further assess BPR.	0	0	0
NA	Y	☆	Training and Knowledge Transfer	The remaining DataHouse Phase 1 Content Management train-the-trainer sessions were postponed again to early December 2020 due to additional time needed to address technical issues. DLIR has an informal plan for their DLIR-led Phase 1 Content Management training sessions to occur in December 2020 for UAT testers and jointly with Phase 1 Case Management training in 2021 for other DLIR users. Phase 1 Content Management knowledge transfer sessions did not occur due to changes in the go-live timeline. IV&V will assess the knowledge transfer approach as the sessions occur.	0	0	0



TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security



CED	SEP OCT NOV	NOV	, IV&V ASSESSMENT CATEGORY	IV&V OBSERVATION	FINDINGS		
SEP	OCI	NOV			NEW	OPEN	CLOSED
Y	₹	V	System Software, Hardware, and Integrations	Development of the Phase 1 Content Management solution was extended due to additional time needed to address technical issues. DataHouse held a demo for DLIR to verify that technical issues were resolved. DataHouse expects to complete the additional remediation work in early December 2020. DLIR and DataHouse established a process for Content Management system development feedback and issue tracking. The Content Management go/no-go criteria still need to be finalized (2020.09.IT01). Phase 1 Case Management Epic 4 development is progressing as scheduled. The interface solution remains unclear (2019.07.IT02). IV&V does not have adequate visibility of development and integration activities to fully assess methodologies and processes.	0	3	0
G	G	G	Design	DataHouse continues to refine the Content Management and Case Management design during development and periodically update design documents. Security design is covered in the Security IV&V Assessment Category.	0	0	0
☆	☆	☆	Data Conversion	The Phase 1 Content Management data conversion bulk migration was put on hold due to changes in the go-live timeline. DLIR is still exploring options for Phase 1 Case Management paper file conversion and details of the data conversion scope, approach, and resources still need to be discussed (2019.11.IT01). IV&V does not have adequate visibility of data conversion activities to assess the progress or approach for data conversion. Additionally, an unsupported legacy system may impact data conversion (2019.09.IT03).	0	2	0



TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security

SEP	OCT NOV		OCT NOV IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		
3EF	OCI	CATEGORY	TV&V OBSERVATION	NEW	OPEN	CLOSED	
R	R	R	Quality Management and Testing	DataHouse continues to perform various system and integration testing. DLIR and DataHouse made progress to clarify test plans and testing roles and responsibilities (2020.02.IT01). DLIR is behind on drafting Phase 1 Content Management and Case Management test cases and needs to finalize their own test plan (2019.10.IT01). IV&V does not have adequate visibility of DataHouse or DLIR testing activities or documentation to fully assess methodologies and progress. Additionally, the DataHouse and DLIR quality management plans and approach have also not yet been finalized (2019.07.IT05).	0	3	0
Y			Configuration Management	No significant updates since the prior report. A comprehensive configuration management plan including the DLIR approval process is still pending (2019.07.IT06).	0	1	0
R	R	Y	Security	DLIR completed a preliminary security risk assessment (SRA) and evaluated areas of risk. DLIR has a high-level plan and timeline to continue evaluating and implementing security tools and controls. DLIR and ETS meet regularly to discuss and align plans for implementing security policies and procedures. DLIR's formal security management plan (2019.07.IT07) and security policies (2019.10.IT02) are still pending.	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.



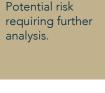
SEVERITY 1: High/Critical level



SEVERITY 2: Moderate level



SEVERITY 3: Low level



TERMS

POSITIVE

Celebrates high

performance or

PRELIMINARY CONCERN

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® v6	Project Management Institute (PMI) Project Management Body of Knowledge
SWEBOK v3	Guide to the Software Engineering Body of Knowledge
TOGAF® v9.2	The Open Group Architecture Framework Standard
COBIT® 2019 Framework	Control Objectives for Information and Related Technologies Framework
IEEE 828-2012	Institute of Electrical and Electronics Engineers (IEEE) Standard for Configuration Management in Systems and Software Engineering
IEEE 1062-2015	IEEE Recommended Practice for Software Acquisition
IEEE 1012-2016	IEEE Standard for System, Software, and Hardware Verification and Validation
IEEE 730-2014	IEEE Standard for Software Quality Assurance Processes
ISO 9001:2015	International Organization for Standardization (ISO) Quality Management Systems – Requirements
ISO/IEC 25010:2011	ISO/International Electrotechnical Commission (IEC) Systems and Software Engineering – Systems and Software Quality Requirements and Evaluation (SQuaRE) – System and Software Quality Models
ISO/IEC 16085:2006	ISO/IEC Systems and Software Engineering – Life Cycle Processes – Risk Management



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



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



Appendix C: Interviews, Meetings, and Documents

INTERVIEWS

DATE	INTERVIEWEE
11/18/20	DLIR Training Plan Meeting
11/18/20	Interview with LIRAB Stakeholder

MEETINGS

DATE	MEETING DESCRIPTION
10/27/20	IV&V DCD Update Meeting
10/27/20	Weekly PM Status Meeting
10/28/20	IV&V Prior Findings Working Session
10/29/20	Phase 1 Electronic Submission Office Hours
10/29/20	Phase 2 Requirements Gathering Session
10/29/20	Thursday Phase 1 Case Management Scrum Meeting
10/29/20	Security Working Session
10/30/20	Weekly DCD Risk Meeting
10/30/20	Phase 2 Requirements Gathering Session
11/05/20	Phase 1 Electronic Submission Office Hours
11/05/20	IV&V Update and Planning Meeting
11/05/20	Thursday Phase 1 Case Management Scrum Meeting
11/05/20	Phase 2 Requirements Gathering Session
11/05/20	Security Working Session



MEETINGS (CONTINUED)

DATE	MEETING DESCRIPTION
11/06/20	Weekly DCD Risk Meeting
11/06/20	Phase 1 Case Management Sprint 4.1 and 4.2 Review
11/09/20	IV&V DLIR Update Meeting
11/10/20	IV&V DCD Update Meeting
11/10/20	Weekly PM Status Meeting
11/12/20	Phase 1 Electronic Submission Office Hours
11/12/20	Thursday Phase 1 Case Management Scrum Meeting
11/12/20	Security Working Session
11/13/20	Weekly DCD Risk Meeting
11/13/20	Monthly eCMS Steering Committee Meeting
11/13/20	Phase 1 Case Management Sprint 4.2 Retrospective Meeting
11/17/20	IV&V DCD Update Meeting
11/18/20	Phase 1 Case Management Sprint 4.3 Planning Session
11/19/20	Phase 1 Electronic Submission Office Hours
11/19/20	Thursday Phase 1 Case Management Scrum Meeting
11/19/20	Security Working Session
11/20/20	Weekly DCD Risk Meeting
11/20/20	Test Plan Walkthrough Meeting
11/20/20	Phase 1 Content Management System Run Through
11/24/20	IV&V DCD Update Meeting



MEETINGS (CONTINUED)

DATE	MEETING DESCRIPTION
11/24/20	Weekly PM Status 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)
Project Management	DataHouse Project Management Plan 1.4 (Updated 09/25/20)
Project Management	DataHouse Project Status Report (Status Date 11/08/20 for reporting period 09/01 – 09/15/20, finalized 11/13/20)
Project Management	DataHouse Project Status Report (Status Date 11/08/20 for reporting period 09/16 – 09/30/20, finalized 11/13/20)
Project Management	Weekly Status Meeting Agenda Minutes (10/17/20)
Project Management	Weekly Status Meeting Agenda Minutes (10/27/20)
Project Management	Weekly Status Meeting Agenda Minutes (11/04/20)
Project Management	Weekly Status Meeting Agenda Minutes (11/10/20)
Project Management	Change Log (Updated 11/20/20)
Project Management	Change Request (CR0002) AWS (Revised 11/10/20)
Schedule	eCMS Microsoft Project Plan as of 11/15/20 (MPP file)
Costs	DCD eCMS Modernization Project – Services (Updated 11/23/20)
Risk and Issues	RAID (Risk Action Issue Decision) Log (Updated 11/20/20 by DataHouse Project Manager)



DOCUMENTS (CONTINUED)

TYPE	DOCUMENT
Risk and Issues	RAID Log (Updated 11/23/20 by DCD Risk Manager)
Development	DataHouse Development Team Status Meeting Minutes for 10/28/20
Development	DataHouse Development Team Status Meeting Minutes for 11/04/20
Development	DataHouse Development Team Status Meeting Minutes for 11/18/20
Requirements	Phase 2 Case Management Requirements Gathering Meeting Notes (5 files)
Requirements	Phase 2 Case Management Process Flows (3 files)
Requirements	Phase 2 Case Management Requirements Gathering Spreadsheet (as of 11/23/20)
Requirements	Case Management Requirements Version 1.5 (Updated 11/15/20)
Requirements	Requirements Traceability Matrix (Revision Date 11/13/20)
Development	Phase 1 Case Management Scrum Meeting Notes (4 files)
Development	Phase 1 Epic 4 Sprint 4.2 Documentation (Retrospective notes)
Development	Phase 1 Epic 4 Sprint 4.3 Documentation (Prior sprint review and planning session notes) (2 files)
Development	DataHouse Email re: Problem with Marking Sets for Training (10/28/20)
Integrations	Phase 1 Case Management Electronic Submission Screencast Video
Design	Phase 1 Case Management Design Version 1.5 (Updated 11/22/20)
Security	DLIR Preliminary Security Risk Assessment (11/02/20)
Security	Security Responsible, Accountable, Consulted, Informed (RACI) Chart Draft (11/13/20)
Testing	DataHouse Test Plan Version 0.1 (Updated 11/13/20, pending DLIR approval)
Testing	DLIR Test Plan Working Draft Version 1.0 (Updated 11/23/20)
Testing	Phase 1 Case Management User Feedback (11/05/20)



DOCUMENTS (CONTINUED)

TYPE	DOCUMENT							
Governance	eCMS ESC Meeting Agenda (11/13/20)							
Governance	eCMS ESC Meeting Minutes (10/09/20)							
Governance	eCMS ESC Meeting DataHouse Project Dashboard (11/13/20)							
Deployment	Phase 1 Content Management Deployment Checklist Draft							



Appendix D: Prior Findings Log



Appendix D: Prior Findings Log

ASSESSMENT	FINIDING ID	TYPE	ORIGINAL	CURRENT	FINIDIALC	ANALYSIS	DECOMMEND ATION IS	DECOMMENDATION .	CURRIENTAL RECOMMENDATION	FINDING	FINDING STATUS LIPPATE		
CATEGORY System Software, Hardware and Integrations	FINDING ID 2020.09.IT01	Risk	Moderate Moderate	SEVERITY Moderate		Interiteria for the go/no-go decision are not completely and clearly defined and agreed upon. The decision to go-live involves many areas and tasks of the project including testing, quality management, security, data conversion, training, communications, and deliverable review, as well as the operational readiness of users. Various project plans often include or establish select criteria, however, some of these related plans pending completion or finalization include the test plans (2020.02.IT01 and 2019.10.IT01), the quality management plan (2019.07.IT05), and security management pan (2019.07.IT06), and for deliverables (2019.07.PM03) have not been established. The Content Management system is scheduled to go-live on November 25, 2020 and Case Management on June 14, 2021. With the Content Management go-live date quickly approaching, it is important to establish clear criteria for the go/no-go decision. DLIR is planning to draft a go/no-go ohecklist to summanize all of the criteria and tasks. DataHouse plans to provide a cutover plan to provide additional information about pre and posts qo-live tasks.		RECOMMENDATION Establish complete and clear go/no- go criteria.	SUPPLEMENTAL RECOMMENDATION FESTablish gon-op criteria in advance of the go-live decision to allow for sufficient time for tasks to be completed and criteria satisfied. *Ensure all parties agree upon go/no-go criteria including impacted stakeholders. *Consider go/no-go criteria such as all requirements meet acceptance criteria and are approved by DLIR, end user training is completed, and critical bugs and issues 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.	Open Open	CHONDS STATUS UPDATE OTUZ3/20: DUE drafted a preliminary testing and cutover checklist that include some go/no-go criteria. DataHouse also provided a Content Management deployment checklist that reflected some of the dates already in the project schedule. DUE is still confirming deployment dates with stakeholders and evaluating the impact of recent technical issues on go-live. 11/24/20: No updates to report. Accuity will evaluate the checklists and criteria as finalized.	DATE DATE	CLOSURE REASON
Project Organization and Management	2020.07.PM01	Risk	Moderate	Moderate	Limited progress to address previously identified deficiencies for foundational project processes may result in reoccurring issues and delays.	post go-live tasks. IV&V identified a number of risks and issues since the IV&V Initial Report in July 2019 related to foundational project processes. Some of the more critical areas requiring improvements include cost management, schedule management, resource management, requirements management, change management, risk management, and testing as these processes impact many aspects of the project execution and contribute greatly to overall project project processes impact many aspects of the project execution and contribute greatly to overall project	2020.07.PM01.R2	Perform a project assessment. Formulate a plan for addressing identified deficiencies.	Consider performing retrospective for project processes. Consider conducting performance assessments for the project team, individual team members, and governance. Document lessons learned and necessary actions or follow-up to prevent reoccurrence of similar issues. Prioritize based on relevance to upcoming activities; consider focusing on requirements management and BPR processes to optimize effectiveness and efficiencies of upcoming requirements gathering sessions. Develop high-level timeline and tasks for addressing deficiencies and begin tracking progress.	Open	08/21/20: DataHouse is currently conducting requirements gathering sessions and made improvements to the requirements management processes including timely sharing of requirements documentation and reviewing original contract requirements. DILR plants to prioritize open findings and resume efforts to develop and execute mitigation plans. 09/28/20: DUR and DataHouse held an initial meeting to discuss prior IV&V findings of risks and issues. Recurring meetings were scheduled to continue discussions and to develop a plan to address all findings. DUR lask od sicussed prior IV&V findings at their weekly risk meetings, prioritized the top three project risks, and began developing remediation or mitigation plans. 10/23/20: DUR and DataHouse met again to discuss prior IV&V findings and made progress to address or close findings. The next meeting is scheduled for the last week of October 2020. Additional follow-up meetings were not yet scheduled. 11/24/20: DUR and DataHouse did not schedule any follow-up meetings specifically to discuss prior IV&V findings; however, some progress was made through the course of other project meetings. Accuity will continue to evaluate progress to address open findings.		

ASSESSMENT	EINIDING ID TYPE	ORIGINAL	CURRENT	FINIDING	ANIALVEIC		RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING	EINDING CTATUS LIDDATE	CLOSED DATE	CLOSURE REASON
CATEGORY	2020.03.PM01 Issue	SEVERITY	SEVERITY	The COVID-19 pandemic is impacting	The COVID 10 and an in her control of the covid the covi	2020.03.PM01.R1	Explore possible ways to keep the	Evaluate DLIR SMEs availability and bandwidth to work on the project.	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Project Organization and		High	Moderate		The COVID-19 pandemic has created uncertainty with respect to the f timely completion of the project and its cost. Understandably, DLIR has	2020.03.PW01.R1	project moving forward with	Consider reshuffling of user stories in current and upcoming sprints and		Refer to the June 2020 IV&V Monthly Report for status updates prior to July		
Management				the impact to project costs and the	diverted project resources to the UI Division to respond to the		available resources.	how to best utilize available DLIR SMEs.		2020.		
wanagement					skyrocketing number of unemployment claims. This finding focuses on the		available resources.	now to best utilize available DLIN SINES.		07/29/20: COVID-19 continues to impact the availability of DLIR project		
				impacts to quality and project success	impacts of COVID-19 specific to the eCMS Project.					resources. A few of the DLIR project resources, including the DLIR Project		
				are currently indeterminable.		2020.03.PM01.R2	Formulate a plan for how to	DataHouse and DLIR, with input from the ESC, must come together to		Manager, returned to the project on a limited basis and additional DLIR		
				are currently indeterminable.	The following is a summary of the related events and facts:	2020.03.PW01.R2	respond to COVID-19 impacts to	decide on how to best proceed.		project resources are expected to have some availability in the upcoming		
					•All eCMS Project meetings were cancelled beginning March 17, 2020		the project.	Carefully assess the situation and individually log all of the specific		months as DCD employees are slowly transitioned back from the UI Division.		
					following directives for non-essential state workers to stay home.		the project	impacts to the project in the risk register, including direct and indirect		With recent increases in cases in Hawaii, circumstances could potentially		
					Subsequent state-wide stay-at-home orders were put into effect through			impacts.		evolve rapidly. While the plan to move forward with Phase 2 work gives		
					April 30, 2020.			Evaluate alternative courses of action and contingency plans for each		DataHouse more options to keep the project moving forward, some level of		
			•Currently only a few DLIR project resources, including the DCD Executive			specific impact identified.		DLIR project resources will always be needed. Making improvements for				
					Sponsor and DLIR Project Manager, are still working in the office or			Consider adjusting the frequency of communications and reviews of		identified deficiencies (2020.07.PM01) in a few key foundational project		
					remotely but time dedicated to project work has been drastically reduced			response plans to support the pace of evolving circumstances.		processes including schedule management (2019.07.PM13), resource		
					due to competing priorities. DLIR ceased actively performing or					management (2019.09.PM02), change management (2019.09.PM01), and risk		
					participating in many key project management activities.					management (2019.07.PM09) will better position the project to handle and		
					Key DLIR Subject Matter Experts (SME) are currently unavailable to the					adjust to changes going forward.		
					eCMS Project. The DLIR SMEs are critical to the Case Management							
					system development process due to the valuable knowledge and input of					08/21/20: DataHouse kicked-off Phase 2 requirements gathering sessions.		
					business operations they provide to the development teams to clarify and					With Phase 1 activities scheduled to resume simultaneously with on-going		
					refine requirements.					Phase 2 activities, additional clarity is still needed regarding the path forward.		
					 Many DLIR SMEs have been temporarily assigned to assist the UI 					Additionally, the worsening COVID-19 situation in Hawaii creates a lot of		
					Division's overwhelmed operations and a timeline of when they would					uncertainty with regards to DLIR project resources and work arrangements. A		
					return to DCD or eCMS Project work is unknown.					clear understanding of intended project activities as well as contingency plans		
					•Even when stay-at-home orders are lifted, the mounting DCD operational					for key project resources and possible work-from-home arrangements are		
					work will limit DLIR SME capacity to participate in or perform project work.					essential to minimizing further delays.		
					The Office of Enterprise Technology Services (ETS) and DLIR Electronic							
					Data Processing Systems Office (EDPSO) stakeholders playing an essential					09/28/20, 10/23/20, and 11/24/20: No updates to report.		
					role in project governance and project security management activities are					Accuity will continue to evaluate COVID-19 response and plans.		
					busy addressing other pressing department and state IT issues.					Accuity will continue to evaluate COVID-19 response and plans.		
					 DLIR's plans to procure necessary testing, data conversion, and cloud support resources has been put on hold due to COVID-19. 							
					Although a few DataHouse resources were reassigned to assist with							
					higher priority and more urgent UI Division system support, DataHouse							
					continues to move forward with development work. However,							
					DataHouse's progress is partially limited due to dependencies on DLIR's							
					completion of assigned tasks.							
					anny and anny the works.							
					The drastic reduction in already constrained DLIR project resources has							
					almost entirely halted project work on the state side which will impact							
					project costs and schedule and potentially impact quality and project							
					success. Estimates of potential impacts to project costs and schedule have							
					not yet been determined and progress has not been made to develop							
					mitigation plans that would help to reduce or limit the impacts.							
					The severity rating and the following IV&V recommendations are based on							
					a project-focused perspective, with an understanding that higher DLIR							
1					department level priorities may limit the project's ability to respond							
					effectively and timely. Although this finding is reported under the Project							
					Organization and Management IV&V Assessment Category, this finding							
					also impacts the criticality ratings for the Governance Effectiveness; Cost,							
					Schedule and Resource Management; Risk Management; Communications							
					Management; Data Conversion; Quality Management and Testing; and							
					Security categories. In addition to the specific recommendations made as							
					a part of this finding, the IV&V recommendations made at findings							
					2019.09.PM02, 2019.07.PM06, 2019.07.PM09, 2019.07.PM12,							
					2019.07.PM13, and 2019.07.PM14 will also help to address this issue.							

ASSESSMENT CATEGORY	FINDING ID TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION S	INDING TATU <u>S</u>	FINDING STATUS UPDATE	CLOSED DA <u>TE</u>	CLOSURE REASON
Quality Management and Testing	2020.02.IT01 Risk	High	Moderate		DataHouse drafted the Test Plan Version 0.0, pending DUR review and approval. The test plan does not include or clearly explain the following: *The scope of the test plan is incomplete (e.g., performance, load, volume, AWS environments). *The testing approach differs from DataHouse's Best and Final Offer (BAFO) (e.g., regression testing, test-driven development (TDD)). *The security testing does not address all security requirements outlined in the DataHouse contract or verbally discussed with DataHouse (e.g., AWS vulnerability scan). *Specifics of the test approach are not detailed (e.g., test design techniques for all testing types, automation testing tools, test data requirements, data scrubbing procedures, metrics for test cases and coverage of code). *The test tasks included in the project schedule are incomplete (e.g., security tests, test plan Section 8 tasks). *Incomplete test deliverables and unclear delivery (e.g., missing a test completion report, defect reports not delivered to DLIR, test results delivered through the requirements traceability matrix (RTM)). *There are no defined test management monitoring and control processes. *A naming convention of test documentation files is not established for easy retrieval and location. A lack of clarity of DataHouse's testing approach may not allow DLIR to appropriately develop their own test plan or ensure testing activities are	2020.02.IT01.R1	Clarify the test approach. Develop adequate test management processes and procedures.	Perform a deliverable review (refer to finding 2019.07.PM03) to ensure DDIR 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.	ppen	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20 and 08/21/20: DataHouse is currently performing various system and integration testing; however, IV&V does not have adequate visibility into DataHouse testing activities or test documentation to provide an assessment. 09/28/20: DUR plans to clarify the testing that DataHouse will be performing for Content Management in order to develop their own test plan. 10/23/20: No updates to report. 11/24/20: Accutity decreased the severity rating from Level 1 (High) to Level 2 (Moderate). DataHouse met with DUR to clarify test plans and testing roles and responsibilities. DataHouse also made some updates to the test plan draft. Additional clarification and improvements of test processes is still needed as well as DUR approval of the test plan. Accuity will reassess when meetings are held regarding the DataHouse test plan and evaluate any improvements made to test processes.		
Data Conversion	2019.11.IT01 Risk	Moderate	Moderate	Unclear data conversion plans and processes may reduce DLIR's ability to prepare for proper data conversion.	adequately performed. Additionally, a lack of mutual understanding and inadequate test management processes could impact the execution of testing activities. The Content Management Conversion and Migration (version 1.2 pending DUR approval) and Case Management Conversion and Migration (version 1.1 pending DUR approval) describe the data conversion process and roles and responsibilities between DataHouse and DUR. DUR is responsible for performing UAT on the data and ultimately 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 conversion teams' 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 conversion test plans for maximum efficiency. Additionally, DUR has not finalized plans for scanning current paper files to ensure necessary data quality to support system use at go-live. The IV&V recommendations made at 2019.07.PM02.R3 and 2019.07.PM13.R2 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.IT01.R2 2019.11.IT01.R3	data conversion process.	Explain how data conversion tools perform validation and reconciliation C steps and share available reports and logs. Explain the process for how the data conversion plans will be updated for changes in system requirements. Provide details on timing, number of data extractions and tests to be performed, and necessary remapping of data. Focus DLIR tests to address identified data conversion risks and issues. Estimate data conversion test resource needs and ensure adequate resources are identified, trained, and scheduled (refer to findings 2019.09.PMO2 and 2019.07.PM14). Evaluate the impact on operations and project success of different data conversion scanning approach options. Estimate scanning time requirements and begin to schedule or acquire necessary resources (refer to findings 2019.09.PM02 and 2019.07.PM14).	open ()	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: The Content Management data conversion plan v1.4 was updated for one of the recent Content Management change requests. IV&V does not have adequate visibility of data conversion activities to assess the progress or approach for data conversion. 08/21/20: DataHouse and DLIR have a meeting planned for late August to discuss Content Management data conversion processes and the DLIR data conversion testing scheduled for September 2020. 09/28/20: DataHouse clarified the Phase 1 Content Management data conversion processes and the expectations for DLIR data validation testing. DataHouse also trained DLIR data validation testers to use the Content Management system efficiently for testing. DataHouse also confirmed that the Case Management data conversion processes would be the same. IV&V will continue to track the clarification of the timing of data extraction and validation cytes under the 2019 O7. PMI3 schedule finding. DLIR still does not have a clear plan for Phase 1 Case Management manual file conversion. DataHouse offered an option for providing data conversion resources to the project that DLIR plans to further explore in October 2020.		
Scope and Requirements Management	2019.10.PM01 Risk	High	High	The current RTM documentation and tool may hinder traceability, which may impact the ability to ensure the overall eCMS solution fulfilis all requirements and provides context and expectations for design, development, and testing.	Added complexity to requirements traceability is due to the current requirements management process. Requirements documentation was developed separate from the DataHouse contract requirements and more detailed requirements were developed by the Content Management and Case Management development teams to use for development. As a result, there is duplication of requirements in the RTM which will likely impede traceability to requirements throughout the life of the project. DataHouse made incremental improvements to the RTM. The requirements documentation were traced to the use cases used by the Content Management development team or user stories used by the Content Management development team or user stories used by the Case Management development team. DataHouse contract requirements was also added to the RTM but have not yet been traced to the requirements used for development. Requirements are not currently traced to project objectives and success metrics to ensure requirements add business value or to acceptance criteria to ensure stakeholder satisfaction. Additionally, the RTM is maintained in Microsoft Excel which limits version-control, efficient collaboration and review, and integration with testing.	2019.10.PM01.R1	Improve requirements traceability.	Frace 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.PG05) 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.)pen	Accuity will evaluate data conversion plans as progress is made. Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 107/29/20: IV&V did not observe or have access to information to verify any progress made in the current month. 108/21/20 and 09/28/20: DataHouse is reviewing contract requirements during the Phase 2 requirements gathering sessions. IV&V does not have access to an updated RTM. 10/23/20: DataHouse updated the RTM with the Phase 1 Content and Case Management revised requirements and user stories. No significant improvements or changes made to traceability. 11/24/20: DataHouse provided some additional clarification regarding the traceability of Phase 1 requirements to other documents and testing results. Accuity will evaluate the RTM as improvements are made.		

ASSESSMENT CATEGORY	FII	NDING ID	TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	FII SUPPLEMENTAL RECOMMENDATION ST	INDING TATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Quality Management Testing		19.10.IT01	Risk	Moderate	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 AWS setup and network connections, DataHouse is now targeting to complete the test plan in November 2019. DIR planned to complete the DIR test plan in October 2019. Due to resource constraints and the need to work on other DUR IT initiatives, the DIR test plan may be combined with the DataHouse test plan and the plan may be combined with the DataHouse test plan. As DataHouse test activities are scheduled to begin in November 2019, DIR needs to understand DataHouse's test strategy and test needs. DLIR also needs to establish their own test strategy as well as identify, train, and schedule DLIR test resources.		Finalize the test plan.	Identify applicable test standards and requirements. Delineate roles and responsibilities between DataHouse and DLIR (refer to finding 2019.07.PM02). Estimate test resource needs and ensure adequate resources are identified, trained, and scheduled (refer to findings 2019.09.PM02 and 2019.07.PM14).)pen	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20 and 08/21/20: DUR's lite UAT review of Epic 2 and 3 builds is still on-going. IV&V does not have adequate visibility of the DUR SME review to report the progress or assess the effectiveness of this testing. 09/28/20: DUR performed the lite UAT for the Phase 1 Case Management Epic 2 and 3 builds; however, it is unclear the completeness of the testing as DUR indicated that they will continue their review. IV&V does not have adequate visibility of DUR testing activities or documentation to fully assess methodologies, completeness, or progress. DUR plans to clarify the testing that DataHouse will be performing and the test documentation DataHouse will be proming and the test documentation DataHouse will be promised to the promise of the providing in order to develop DUR's own test plan. 10/23/20: DUR made revisions to their draft test plan but the plan is still pending finalization. DUR also drafted a preliminary testing and cutover checklist. With Phase 1 Content Management UAT scheduled to begin at the end of October 2020 and with go-live scheduled for the end of November 2020, it is critical that DUR finalizes their testing approach, test templates, and test resources. 11/24/20: DUR made additional revisions to their draft test plan but is behind on drafting Phase 1 Content Management and Case Management test cases. Accurty will evaluate DUR's test plan when finalized.		
Security	20	019.10.IT02	Risk	High	High		DUR currently does not have formal security policies to determine security requirements for the eCMS Project and does not have security procedures in place to a dequately protect eCMS 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 conversion and testing activities. The determination of security requirements is critical as data conversion 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 DataHouse is responsible for (refer to finding 2019.07.1107). Security policies and the resulting security requirements should be determined immediately to prevent further delay of the project.	2019.10.IT02.R2	Formalize security policies. Formalize and implement security procedures.	Work with ETS to align DUR policies with State policies and/or a standard security framework. Consider prioritizing security policies that are most relevant for use of cloud services and data protection (e.g., security logging and monitoring, MFA, remote access, encryption of data-at-rest and data-intransit) -Clarify roles and responsibilities for security controls between DUR and ETS. -Identify specific resources to perform security procedures. -Consider prioritizing security procedures that are necessary for the operation of the AWS environments.	pen	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: The review of the draft security policies is still on hold due to unavailability of DLIR project resources. 08/21/20 and 09/28/20: DLIR and ETS discussed security frameworks and possible options for formalizing security policies and procedures. 10/23/20: ETS plans to provide drafts of security policies and standards to DLIR in early November 2020. 11/24/20: ETS is still making revisions to draft standards. Accuity will evaluate the security policies, requirements, and procedures as they are finalized.		
Project Organization : Management	and	019.09.PM01	Issue	Moderate	High	The documented change management process was not followed as prescribed.	The Project Management Plan (version 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;07.1701 in Appendix D) and the revision of the Content Management go-live date were approved by DUR but not documented in Change Requests or a Change Log. Additionally, the change management process does not have built in mechanisms to ensure that impacted documents are updated for the change and changes are appropriately communicated to impacted stakeholders.	2019.09.PM01.R1	Occument 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 clarity and effectiveness.)pen	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20, 08/21/20, and 09/28/20: No updates to report. 10/23/20: The change request to document the major change to the Content Management hosting solution from DHS FileNet environments to AWS is still pending. All Content Management related change requests should be finalized as a part of DLIR acceptance in November 2020. 11/24/20: DataHouse and DLIR finalized the AWS change request. Major revisions to the Content Management go-live date continue to be approved by DLIR but not in formal change requests with documented impact analyses. Accuity will review the change requests as they are finalized and evaluate improvements to the Change Log.		

ASSESSMENT	ORIGINAL CURREN	т					FINDING			
CATEGORY FINDING ID TYPE	SEVERITY SEVERIT	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Cost, Schedule and 2019.09.PM02 Risk Resource	Prelim High	Undefined resource management processes and procedures may result in	This was originally reported in the September 2019 IV&V Monthly Report as a preliminary concern but is upgraded to a risk in this report. The	2019.09.PM02.R1	Develop procedures to estimate and refine DLIR resource	 Detail necessary steps and information needed to estimate and refine resources requirements. 	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020.		
Management		unidentified resource requirements,	Project Management Plan (version 1.3) includes a human resource		requirements.	Consult DataHouse for input on upcoming activities that require DLIR		2020.		
Wallagement		inadequate resources, or project	management section that outlines the high-level roles and responsibilities		requirements.	resources and clarify expectations of resources.		07/29/20: DataHouse's revisions to the project schedule for Phase 1 tasks		
			of various team members but does not define a process for how resources			Assign responsibility for and establish target due dates to develop		were tentatively approved by DLIR; however, details of resource requirements		
		(Updated)	will be managed. This will become more critical for DLIR as the project			resources estimates for major project activities (e.g., data conversion,		for Phase 2 work were not provided. State resources need a clear		
			gears up for more resource demanding activities including data			testing).		understanding of upcoming project activities and sufficient lead time to		
			conversion, testing, and sprint reviews. Additionally, DLIR project team	2019.09.PM02.R2	Develop processes to optimize	Consider working with managers of project resources to reassign team		adequately prepare for and complete project tasks.		
			resources are not fully dedicated to the project and still perform other job		utilization of DLIR project resources	members' other job duties.				
			duties. Developing processes and procedures to track and quantify upcoming resource needs, identify available resources, procure or obtain			 Consider periodically reconfirming and renewing resource commitments 	8	08/21/20: The necessary DLIR SMEs were able to participate in the Phase 2 requirements gathering sessions. With Phase 1 and Phase 2 activities to		
			commitments of resources, manage resource schedules, communicate			to the project.		begin occurring simultaneously, improved resource management processes		
			with assigned resources and their supervisors, and train resources for			•Ensure team members understand their responsibilities (e.g., testing,		are needed to timely coordinate, assess capacity, and make adjustments		
			assigned tasks will help to minimize project delays.			sprint user story contact, project communications, OCM) and		within DLIR project resource constraints.		
			5 · · · · · · · · · · · · · · · · · · ·			assignments. •Ensure team members are properly trained and prepared to perform		, p. j		
			DLIR developed a rough estimate of hours to perform scanning and data			their assignments.		09/28/20: The necessary DLIR SMEs were able to participate in both Phase 1		
			entry of Case Management paper files but more precise estimates based			Explore use of tools for resource calendars and tracking of team		and Phase 2 project activities; however, it is unclear if DLIR SMEs had		
			on a trial run of sample cases and a decision on what cases must be			member assignment progress and completion.		adequate time to perform the Phase 1 Case Management review. As Phase 1		
			converted by go-live is needed (refer also to finding 2019.11.IT01).			- ' ' '		and Phase 2 activities are scheduled to occur simultaneously through June		
			Additionally, DLIR needs to perform an analysis to determine how many					2021, improved resource management processes are needed to maintain the		
			resources can be acquired with budgeted funds and whether those acquired resources will be able to complete necessary data conversion					current project pace as well as timely coordinate, assess capacity, manage workloads, and make adjustments within DLIR project resource constraints.		
			activities by the targeted go-live.					workloads, and make adjustments within Den project resource constraints.		
			and an argue go wee					10/23/20: DLIR project resources are mostly able to participate in Phase 1		
			DLIR has not yet completed a test plan (refer to finding 2019.10.IT01),					and Phase 2 project activities; however, the lasting impact of the COVID-19		
			estimated resource requirements for testing, or formalized a plan for					pandemic on DLIR project resources' capacity to perform project work is		
			scheduling testers.					preventing the timely completion of some tasks. Effective resource		
								management is key to minimizing further project delays.		
			The IV&V recommendations made at 2019.07.PM14.R1 and							
			2019.07.PM14.R2 regarding evaluating resource needs and resource					11/24/20: Limited availability of DLIR project resources impacts their ability to		
			reports will also address this finding. Below are additional recommendations to further improve data conversion plans and activities.					timely complete and be fully engaged in project work including reviewing and providing feedback on the system build. DLIR and DataHouse are planning to		
			recommendations to further improve data conversion plans and activities.					schedule additional meetings to provide a more structured schedule for DLIR		
								project resources to perform system reviews and to increase engagement in		
								the project.		
								Accuity will continue to evaluate resource management practices.		
System Software, 2019.09.IT02 Risk	Prelim Modera	e Unclear M&O roles and responsibilities	This was originally reported in the September 2019 IV&V Monthly Report	2019.09.IT02.RI	Clarify M&O roles and	Discuss terms of DataHouse support option to understand level of	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July		
Hardware and		may impact operational readiness after	as a preliminary concern but is upgraded to a risk in this report. The M&O		responsibilities.	support, cost structure, and timing of transition.		2020.		
Integrations		transition. (Updated)	roles and responsibilities and plans for developing support processes and			Clarify any shared responsibility with ETS and enterprise tools that can				
			procedures are currently unclear. DLIR is considering executing a support			be leveraged.		07/29/20: This was changed to a risk in the July 2020 IV&V Monthly Report.		
			option in their contract with DataHouse to help with M&O after go-live as							
			it is uncertain if DLIR EDPSO will have adequate resources to perform					08/21/20: DLIR began clarifying responsibility and enterprise tools with ETS		
			required M&O. The COVID-19 pandemic (refer to finding 2020.03.PM01) further exacerbates and creates additional uncertainty with regards to					and plans to begin discussions with DataHouse in September 2020.		
			DLIR EDPSO and ETS resources. The roles and responsibilities within the					09/28/20: DLIR drafted a M&O assumptions template that DataHouse		
			DLIR EDPSO team and any shared responsibilities with ETS and					reviewed and agreed to. IV&V recommends that DLIR formalize the agreed		
			DataHouse need to be clarified. This will help to quantify eCMS M&O					upon roles and responsibilities in writing with DataHouse and ETS.		
			resource requirements (refer to finding 2019.09.PM02) and either identify					, , ,		
			resources within the existing DLIR EDPSO team or acquire the necessary					10/23/20: No updates to report.		
			resources (2019.07.PM14). This should be done with sufficient time for							
			training and knowledge transfer so that M&O resources are in place at go-					11/24/20: DLIR began to draft a RACI chart to outline roles and		
			live. Clarifying M&O roles and responsibilities will also help to develop the related security management plan (refer to finding 2019.07.IT07).					responsibilities for some security M&O tasks.		
			the related security management plant (refer to illiuming 2017.07.1107).					Accuity will continue to evaluate M&O as roles and responsibilities are		
								clarified.		
Data Conversion 2019.09.IT03 Risk	Prelim Low	Unsupported IBM Lotus Notes Domino	This was originally reported in the September 2019 IV&V Monthly Report	2019.09.IT03.RI	Explore options for obtaining	Consider working with ETS or other State agencies still using Lotus	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July		
		Case Management may impact the	as a preliminary concern but is upgraded to a risk in this report. The		support.	Notes to get vendor approved and support contract in place.		2020.		
		execution of data conversion activities.	current case management system, IBM Lotus Notes Domino, is no longer		1	· · · · · · · · · · · · · · · · · · ·				
		(Updated)	supported. The product was sold by IBM to HCL Technologies, an Indian					07/29/20: This was changed to a risk in the July 2020 IV&V Monthly Report.		
			IT company. DLIR's licenses for the product ended in June 2019 and DLIR							
			is unable to renew the licenses as HCL Technologies is not a State					08/21/20, 09/28/20, 10/23/20, and 11/24/20: No updates to report.		
			Procurement Office (SPO) compliant vendor. This system will be replaced					a some some some some		
			by the eCMS Case Management solution which was scheduled to go-live					Accuity will continue to monitor this preliminary concern.		
			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.							
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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
Benefits Reali	2019.07.PG05 Risk	High	Moderate		The eCMS Project does not have a project charter that would have helped to formalize the project goals, target benefits, and success metrics at the start of the project. Based on informal recommendations made by Team Accuity during the initial IV&V on-site review, DUR 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 solution will achieve the		Formalize measurable goals and success metrics in a project charter.	 Consider financial, nonfinancial, tangible, and intangible metrics such as operational Key Performance Indicators (KPIs), 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 DUR goals. 	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20 and 08/21/20: Progress on the success metrics stalled due to shifting priorities and changes in DUR project resources. 09/28/20: DUR updated success metric goals and plans for collecting		
					desired level of improvement or benefits that justify the project's financial investment. Goals and success metrics need 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.R2	Collect baseline and project performance data.	Consider methods for collecting data such as surveys, queries, observation, open forums, or actual performance testing. Consider sources of data such as legacy systems, operations, and internal and external stakeholders.		baseline success metric data. DLIR presented the updated metrics at the weekly project managers meeting but should also share and periodically remind all eCMS Project team members of the success metrics to help align project decisions and discussions (e.g., requirements gathering) with project		
						2019.07.PG05.R3	Use performance data to monitor o evaluate project or contractor performance.			goals. 10/23/20 and 11/24/20: No updates to report.		
										Accuity will continue to evaluate the collection and monitoring of success metrics data.		
Project Organization Management		High	Moderate	The current project management organization may hinder project performance.	The eCMS Project has failed to achieve team synergy between DLIR 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, workshops, and design sessions and DLIR is not included in many project design or development activities. The unclear contract terms regarding roles and responsibilities between DLIR and DataHouse (Pefer to finding 2019.07.PG03), Physical separation of the project team, and limited collaboration or DLIR involvement have all contributed to the siloed workstreams. This has also led to ineffective communications within the project team (refer to finding 2019.07.PM06).	2019.07.PM02.R1	Clarify roles and responsibilities between DUR and DataHouse.	 Consider revising project management plans to identify the person responsible and list specific responsibilities for each project management area. Consider the need to include an outline of DLIR and DataHouse roles and responsibilities in a contract modification (refer to finding 2019.07.PG03). 	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: The DUR Project Manager returned to the project on a part-time basis and is resuming weekly project status meetings. 08/21/20: The DUR Project Manager returned to full-time status on the project and began resuming more standing DUR meetings as well as scheduling additional meetings to make progress in critical areas of the project. 09/28/20: The weekly Scrum standup meetings for Phase 1 Case Management and internal DUR weekly risk and test meetings resumed. Periodic Content Management check-in meetings previously discussed are still on hold. DUR, DataHouse, and ETS made progress to clarify M&O as roles and responsibilities. Further clarification of testing roles and responsibilities is still needed.		
						2019.07.PM02.R2 2019.07.PM02.R3	The DataHouse Project Manager should work onsite at DLIR through project completion to improve DLIR and DataHouse project team cohesion. Include DLIR in project activities an communications to increase DLIR			10/23/20: Regular meetings were scheduled to improve collaboration with Phase 1 Content Management and electronic submission pilot group stakeholders. 11/24/20: Weekly meetings with electronic submission pilot group stakeholders continued; however, the planned Phase 1 Content Management daily standup meetings between DLIR and DataHouse were postponed to begin in December 2020 due to changes in the go-live timeline. DLIR and DataHouse made progress to clarify testing roles and responsibilities.		
							and DataHouse project team cohesion.			Accuity will continue to evaluate the clarity of roles and responsibilities and observe the effectiveness of project organization.		
Project Organization Management		Moderate	High	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.PM02), 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 that do not meet industry standards (refer to finding 2019.07.PM10). A	2019.07.PM03.R1 2019.07.PM03.R2	Establish deliverable acceptance criteria. Hold joint DUR and DataHouse deliverable review meetings to walk through deliverables.	Consider including acceptance criteria in the quality management plan (refer to finding 2019.07.1705), in a contract amendment (refer to finding 2019.07.PG03), or in Deliverable Expectation Documents (DED).	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: DUR, with the assistance of ETS, timely reviewed and approved AWS vulnerability scan reports and results. Other critical DataHouse deliverables are still pending review.		
					lack of a clear deliverable listing or acceptance criteria (refer to finding 2019.07.PG03), a lack of a quality management process and resource to verify deliverables (refer to finding 2019.07.IPG)s, and over tasked project managers (refer to finding 2019.07.PM14) also contribute to an ineffective deliverable review and acceptance process. The delay in the approval deliverables has been cited by the eCMS Project team as one of the reasons the Phase 1 go-live dates were extended. Based on informal IV&V recommendations, DataHouse and DUR started to implement joint deliverable review meetings beginning June 2019.	2019.07.PM03.R3	Implement formal deliverable review and approval processes.	 Include both the scope validation process for acceptance and the quality control process for correctness (refer to finding 2019.07.IT.05). Include an evaluation of deliverables against acceptance criteria and requirements documentation. DLIR should understand how each deliverable impacts the project schedule, roles and responsibilities, and ultimately the quality of the technical solution and success of the project. 		08/21/20: DUR completed their review of DataHouse's AWS Environment Design document. 09/28/20: With several key Phase 1 Content Management deliverables scheduled to be delivered over the next two months, DUR needs to establish acceptance criteria and scope validation and quality control processes as a part of deliverable review and acceptance. See also related finding 2020.09.IT01. 10/23/20: DUR reviewed and approved the recent Phase 1 Content Management Training Guide deliverables. A deliverable walk through meeting was not held and IV&V does not have adequate visibility to DUR's review and acceptance process. DUR's review of the DataHouse Test Plan deliverable is still pending. 11/24/20: DUR and DataHouse met to walkthrough the pending DataHouse Test Plan deliverable. DUR requested that DataHouse hold deliverable walkthrough meetings for all new and revised deliverables.		
										walkthrough meetings for all new and revised deliverables. Accuity will continue to evaluate the effectiveness of the deliverable review and acceptance process.		

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CATEGORY	FINDING ID TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION STA	ATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Communication	2019.07.PM06 Issue	High	Moderate	DataHouse's ineffective and untimely	Communication activities listed in the Project Management Plan (version	2019.07.PM06.R1	Implement daily touch point	Ор	en	Refer to the June 2020 IV&V Monthly Report for status updates prior to July		
Management				communications with the DLIR Project	1.0) did not occur as planned as the weekly project status meetings did		meetings between DataHouse and			2020.		
				Team contributed to DLIR's incomplete understanding of the technical solution,	not begin until April 2019 and the first progress report was not completed until February 2019. Despite the commencement of regular project		DLIR Project Managers.			07/29/20: The DLIR Project Manager returned to the project on a part-time		
				potential risks, and upcoming project	communications, misunderstandings and miscommunications between the					basis and is resuming weekly project status meetings.		
				activities.	DataHouse and DLIR project teams continued to occur. DLIR project team					basis and is resulting weekly project status meetings.		
					members had a piecemeal understanding of the technical solution (refer					08/21/20: The DLIR Project Manager returned to full-time status on the		
					to finding 2019.07.1T02) and project risks and issues (refer to finding					project and began resuming more standing DLIR meetings; however, it is		
					2019.07.PM09). Additionally, information regarding upcoming project					unclear when DLIR and DataHouse joint standing meetings will resume. The		
					activities was not provided timely. For example, DataHouse did not timely communicate to DLIR what to expect for the design stage sessions (e.g.,					DLIR Project Manager did schedule some additional meetings between		
					what would be covered each day, which end users needed to participate).					DataHouse and DLIR for critical project areas.		
					There has also been a lack of communications regarding the upcoming					09/28/20: The weekly Scrum standup meetings for Phase 1 Case		
					build stage activities (refer to finding 2019.07.PM05).					Management resumed but periodic Content Management check-in meetings		
										previously discussed are still on hold. With many Phase 1 Content		
					The IV&V recommendations made at 2019.07.PM02.R2 and 2019.07.PM02.R3 regarding DataHouse working on-site and including					Management activities scheduled over the next two months, effective and timely communications are needed for smooth project execution.		
					DLIR in project activities will also address this finding. Below are					timely communications are needed for smooth project execution.		
					additional recommendations to further improve project team					10/23/20: Accuity decreased the severity rating from Level 1 (High) to Level 2		
					communications.					(Moderate). Regular meetings for Phase 1 Content Management and		
										electronic submission were scheduled and other standing project meetings		
										are continuing to occur.		
										11/24/20: The planned Phase 1 Content Management daily standup		
										11/24/20: The planned Phase 1 Content Management daily standup meetings between DLIR and DataHouse were postponed to begin in		
										December 2020 due to changes in the go-live timeline.		
										Accuity will continue to evaluate the effectiveness of these project		
										communication channels.		
Communication	2019.07.PM07 Risk	Moderate	Moderate	The lack of tailored project	Communications management is a part of the Project Management Plan	2019.07.PM07.R1	Further refine communication	•Segment stakeholders into groups by communication needs such as by Op	en	Refer to the June 2020 IV&V Monthly Report for status updates prior to July		
Management				communications for all impacted stakeholders may reduce user adoption	developed by DataHouse; however, the plan is not comprehensive and primarily reflects project meetings, status reporting, and issue reporting.		management plans.	department unit (e.g., Hearings, Enforcement, or Records and Claims), by position (e.g., manager, supervisor), or internal and external (e.g.,		2020.		
				and stakeholder buy-in.	The approved Project Management Plan (version 1.2) was updated to			claimants, insurance agencies).		07/29/20: DLIR made some updates to the project website.		
					include a communication matrix that outlines additional communication			Consider the list of communication methods listed in DataHouse's		572726. BENTIAGE Some apartes to the project website.		
					activities. While this is an improvement over the previous version, the			BAFO.		08/21/20: DataHouse and DLIR held an initial meeting with a limited group		
					latest draft plan still does not provide adequate details regarding			Due to limited DLIR resources available for communication activities,		of external stakeholders and plans to hold periodic update meetings going		
					communication activities as all stakeholders are grouped together for three broad communication methods and activities.			the specific groups and communication activities should be prioritized to focus resources most efficiently.		forward.		
					three broad communication methods and activities.			Update the project schedule for communication activities and assigned		09/28/20: DLIR and DataHouse scheduled a follow-up meeting with and		
					A formal communication requirements analysis was not conducted to			resources (refer to finding 2019.07.PM14).		plans to hold help desk hours for the electronic submission process external		
					determine the information needs of internal and external project					stakeholders.		
					stakeholders. There is not a process to ensure the timely distribution of							
					project information and there is no dedicated role or adequate resources					10/23/20: Improvements in stakeholder communications were made by		
					assigned to communications management (refer to finding 2019.07.PM14). As such, communication activities have occurred					implementing standing meetings with Phase 1 Content Management and electronic submission pilot group stakeholders.		
					haphazardly. The limited communication activities is somewhat mitigated					electionic submission phot group stakenoiders.		
					as the DLIR Project Manager involves internal stakeholders in project-					11/24/20: The planned Phase 1 Content Management daily standup		
					related meetings and working sessions. However, this informal approach					meetings between DLIR and DataHouse were postponed to begin in		
					does not include all internal stakeholders or any external stakeholders.					December 2020 due to changes in the go-live timeline. DLIR and DataHouse are also planning to schedule additional meetings in December 2020 with		
										DLIR project resources to increase engagement and feedback on the system		
										build.		
										Accuity will continue to evaluate project communication plans and activities.		
Organizational	2019.07.PM08 Risk	Moderate	Moderate	Missing key OCM steps or activities may		2019.07.PM08.R1	Develop and implement a	Collect baseline change awareness and readiness measurements	en	Refer to the June 2020 IV&V Monthly Report for status updates prior to July		
Change				not identify pockets of resistance or	OCM activities but these were not formalized in a plan or processes.		structured OCM approach.	through surveys or interviews.		2020.		
Management				adequately enable individual change.	There are no OCM specific tasks or resources assigned for OCM activities			•Create and mobilize a change coalition group of managers, supervisors,		07/09/09 109/04/09 N		
					in the project schedule (refer to finding 2019.07.PM14). Although there is no formal or coordinated OCM approach, some elements of OCM occur			and key influencers. Incorporate and align OCM into communication, business process		07/29/20 and 08/21/20: No updates to report.		
					through regular project management communication and training			engineering (BPR), and training activities.		09/28/20, 10/23/20, and 11/24/20: Some OCM is occurring again as an		
					activities. The DLIR Project Manager's inclusive and collaborative			Develop OCM activities to address identified awareness gaps or		indirect result of other project communications and participation in on-going		
					approach with internal stakeholders (refer to finding 2019.07.PM01) and			pockets of resistance.		project meetings.		
					the DCD Executive Sponsor's active and visible support of the project (refer to finding 2019.07.PG01) also mitigates the lack of a formal			•Implement reinforcement mechanisms to support change and increase		Apprile will produce as analysis the OCM		
					approach.			adoption.		Accuity will continue to evaluate the OCM approach and monitor the change readiness of project stakeholders.		
					арргосси.					recomess or project stakeholders.		
					Although projects may progress without a formal OCM approach, industry							
					best practices support that a structured OCM approach compliments							
					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							
					emsure that the solution is ultimately adopted and embraced by employees.							
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ASSESSMENT			ORIGINAL	CURRENT						FINDING			
CATEGORY Risk Management	EINDING ID 2019.07.PM09	Issue	SEVERTY	SEVERITY Moderate	FINDING Risks and issues have not been clearly identified, tracked, or reported resulting in the lack of understanding of potentia impacts across project team members and there are no mitigation plans to adequately address them.			RECOMMENDATION Formalize the Risk and Issue Management process. Conduct regular meetings to discus project risks and issues.	A formalized process should clearly define responsibilities and steps in identification, resolution and action items tracking, and escalation procedures. *The project team must encourage open, transparent discussion about risks and issues. *Include DataHouse and DUR and, on occasion, the executive steering committee (refer to finding 2019.07.PG02). *Perform a detailed review of new items, status of open items, risk/issue		RNDING STATUS UPDATE Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20 and 08/21/20: No updates to report. 09/28/20: Accuity decreased the severity rating from Level 1 (High/Critical) to Level 2 (Moderate). DLIR resumed weekly risk meetings, prioritized the top three project risks, and began developing remediation or mitigation plans. Additionally, DLIR and DataHouse began discussing prior IV&V findings of risks and issues and scheduled recurring meetings to continue efforts. 10/23/20: DLIR and DataHouse continued regular discussions of risks as well as efforts to address previously identified IV&V risks and issues. 11/24/20: DLIR and DataHouse did not schedule any follow-up meetings specifically to discuss prior IV&V risks and issues; however, DLIR and DataHouse continued discussions of risks and issues in other recurring meetings.	CLOSED DATI	CLOSURE REASON
Scope and Requirements Management	2019.07.PM10	Issue	High	Moderate	The Content Management and Case Management requirements documentation is incomplete.	The requirements for both Content Management and Case Management have already been approved; however, the requirements are incomplete (e.g. do not incorporate all contract requirements and all three project phases) and the descriptions in the Requirements Traceability Matrix (RTM) lack sufficient detail. The current RTM also does not link operational and project objectives to design artifacts. Furthermore, the RTM does not include non-functional requirements, including compliance with Hawaii Revised Statues, Hawaii Administrative Rules and security requirements. Requirements management is a part of the Project Management Plan developed by DataHouse; however, the plan is not comprehensive. The Project Management Plan (version 1.2) was updated to include additional details regarding requirements management. While this is an improvement over the previous version, the latest draft plan still does not provide adequate details regarding the requirements prioritization process, the traceability structure, and how requirements will be reported. As requirements are the foundation for proper system design, development, and testing, it is essential that requirements documentation are complete and meet industry standards and best practices. Requirements documentation should be revised and requirements management processes should be improved prior to moving forward in the project.		Revise Content Management and Case management requirements documentation and RTM. Improve requirements management processes.	exmers, and mitigation plans. *Ensure requirements follow SMART (specific, measurable, actionable, realistic and time bound) guidelines. *Ensure requirements documentation include all requirements listed in the DataHouse contract, all requirements identified during the stakeholder sessions, and for all three phases of the eCMS Project. *Ensure requirements include functional, performance, process, nonfunctional, security, and interface requirements. *Ensure that there is a clear understanding between DataHouse and DLIR regarding who is responsible for identifying and tracking different types of requirements. *Ensure process for prioritizing and reporting requirements. *Develop a process for tracing requirements to specific system design elements.	Open	Accuity will continue to monitor the risk management process. Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: IV&V did not observe or have access to information to verify any progress made in the current month. With requirements gathering sessions scheduled for August, the requirements processes, roles, and responsibilities should be reevaluated and improved to increase efficiency and avoid the setbacks and delays experienced in Phase 1. 08/21/20: DataHouse made improvements to the requirements management processes including real time review of updated workflows and drafted user stories during the Phase 2 requirements gathering sessions, as well as timely sharing of draft requirements documentation and meeting notes after sessions for DUR review and reference. 09/28/20: Draft Phase 2 user stories appear to cover the DUR business process workflows more completely from start to finish as compared to Phase 1; however, it is unclear how requirements related to work assignment, dashboards, reporting, integrations, forms, and Phase 1 updates will be captured. 10/23/20: The Phase 2 requirements deliverable scheduled for October 2020 is delayed. DataHouse is now targeting November 2020 for completion. 11/24/20: DataHouse is now targeting to complete the Phase 2 requirements deliverable in December 2020.	ı	
Cost, Schedule an Resource Management	d 2019.07.PM12	Issue	High	High	Informal cost management practices management practices management of contracts.	by There is no formal cost management plan. A comprehensive total project budget is not created, tracked, or reported. Currently, payments are tracked for the two main eCNB Project contracts: DataHouse SI contract and the Team Accuity IN&V contract. Other costs for licenses and equipment are tracked informally as these are often paid from DCD's regular or excess funds. With the recent DHS development, costs of all required hardware and software for the alternative solution as well as long-term operational costs need to be properly evaluated and managed (refer to finding 2019.07.IT01). Additionally, total project costs and funding sources are not formally reported. The DataHouse contract states that payments are contingent upon receipt of services, deliverables, and reports in accordance to the milestones that meet the expectations of the RFP. DataHouse provided DLIR with a monthly payment schedule and as of June 30, 2019, DLIR has paid DataHouse's invoices through April 2019 (May and June 2019 invoice payments are still pending). Although the project schedule, deliverable timelines, and go-live dates have been pushed back, no adjustments were made to the monthly payment schedule which could result in overpayments. Due to the lack of clear and specific deliverable expectations (refer to finding 2019/07/PG03), incomplete understanding of all the schedule delays (refer to finding 2019/07/PG03), incomplete understanding of all the schedule delays (refer to finding 2019/07/PG03), incomplete understanding of all the schedule delays (refer to finding 2019/07/PG03), incomplete understanding of all the schedule delays (refer to finding 2019/07/PG03), incomplete understanding of all the schedule delays (refer to finding 2019/07/PG03), incomplete understanding of all the schedule delays (refer to finding 2019/07/PG03), incomplete understanding of the determine if DataHouse payments schedule, Team Accuity is unable to determine if DataHouse payments are appropriately managed.	2019.07.PM12.R2 2019.07.PM12.R3	Prepare a comprehensive project budget and a schedule of long-term operational costs (e.g., licenses, subscriptions, maintenance, cloud services). Prepare regular cost reports for management and the executive steering committee. Clarify DataHouse payment terms and adjust payment schedules for schedule delays.		Open	Accuity will continue to evaluate the requirements documentation and processes. Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20 and 08/21/20: No updates to report. 09/28/20: DLIR and DataHouse are actively monitoring and managing AWS environment costs. 10/23/20 and 11/24/20: DLIR and DataHouse continue to actively manage select project costs. Improvements are still needed to better track and monitor all project costs. DataHouse's contract payment schedules were not revised for changes in completion of milestones and deliverables resulting in prepayment of contract funds. Accuity will continue to monitor project costs including the proposed paymen schedule, new AWS costs (from finding 2019.07.IT01), and cost management practices.		

ASSESSMENT			ORIGINAL	CURRENT						FINDIN <u>G</u>		
CATEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE CLOSED DATE C	LOSURE REASON
Cost, Schedule and Resource Management			High	High	Inadequate schedule management practices may lead to project delays, missed project activities, unrealistic schedule forecasts, or unidentified causes for delays. Inadequate assigned project resources		2019.07.PM13.R2	Document and approve revisions to project schedule deliverables, milestones, and go-live dates in accordance with the Project Management Plan. Refine the project schedule with details of tasks, durations, phases, and assigned resources. Prepare regular schedule reports and schedule variance analyses for management and the executive steering committee.	Perform project schedule updates for the alternative solution (refer to	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: DataHouse's revisions to the project schedule for Phase 1 tasks were tentatively approved by DUR; however, details of resource requirements for Phase 2 work were not provided. 08/21/20: A few DataHouse Phase 2 planning tasks are delayed and DUR Phase 1 lite UAT testing completion was postponed again. With Phase 1 and Phase 2 activities to begin occurring simultaneously, improved schedule management processes are needed to timely coordinate, make schedule adjustments, and minimize further delays within DUR project resource constraints. 09/28/20: No updates to report. 10/23/20: DUR project resources' limited capacity to perform project work is preventing the timely completion of some tasks and recent technical issues postponed some Phase 1 Content Management activities. DataHouse and DUR are currently evaluating project schedule impacts. DataHouse and DUR are currently evaluating project schedule impacts. DataHouse has not tyet added the detailed tasks for Phase 2 beyond the planning stage and plans to add more detailed tasks are specific project information (e.g., features, number of epics) is determined. 11/24/20: The Phase 1 Content Management go-live on November 25, 2020 was postponed. DUR and DataHouse are currently evaluating options for a revised go-live date in early 2021. There are also delays in Phase 2 requirements and select Phase 1 Case Management tasks. Accuity will continue to monitor the project schedule and schedule management practices. Refer to the June 2020 IV&V Monthly Report for status updates prior to July	
Cost, Schedule and Resource Management	2017.07.FM 14	issue	muuerate	myl	imacequate assigned project relavys, reduced may lead to project delays, reduced project performance, or turnover of project resources.	I earn Accurity was unable to evaluate resource workloads based on the project schedule information (refer to finding 2019.07.PMTs), however, based on observations of the eCMS Project team, the DataHouse and DUIR Project Manager spaper to be over-tasked. The DUIR Project Manager is the only full-time DUIR employee assigned to the eCMS Project and understandably does not have time to perform all of the tasks to properly manage the project or represent DUIR during project activities. DUIR should increase participation in design and development activities (refer to finding 2019.07.PMO2) but would not be able to with the current assigned resources. Resource management is included in the Project Management Plan and states that "resources will be provided based on project needs. This will be reviewed with DCD on a quarterly basis." The Project Status Reports prepared by DataHouse do not note any resource needs under the Staffing (Needs, Anticipated Changes) section. However, Team Accurity noted that the DataHouse Quality Assurance Lead has not been assigned (refer to finding 2019.07.1705). DataHouse is also considering adding a project coordinator resource to assist with meeting minutes and getting deliverables out.		and acquire additional resources and acquire additional resources. Prepare regular resource reports for management and the executive steering committee.	*Fretom project schedule updates for the alternative solution (reter to finding 2019,07.PM13). *Ensure resource levels and skill sets align to assigned tasks or roles. *Consider including resource needs for unassigned tasks or roles. *Consider including DLIR resources needed and estimated hours for upcoming project activities (e.g., design sessions, user demonstrations, or user testing).	open	2020. 07/29/20: DLR substituted assigned SMEs and DataHouse proposed shifting work in an effort to keep the project moving forward with limited DLR project resources. A few SMEs were able to participate during the current month on a limited basis and additional DLR project resources are expected to have some availability in the upcoming months as DCD employees are slowly transitioned back from the UD invision. A detailed plan of resources needed, estimated hours, and dates is needed (2019.07.PM13) to ensure the new plan is feasible with the available options. Additionally, DLR should keep exploring options to obtain necessary project resources (e.g. substitutions, ETS). 08/21/20: The necessary DLR SMEs were able to participate in the Phase 2 requirements gathering sessions. With Phase 1 and Phase 2 activities to begin occurring simultaneously, adequate project resources are needed to prevent further delays. 09/28/20: The necessary DLR SMEs were able to participate in the Phase 1 and Phase 2 activities, however, it is unclear if DLR SMEs had adequate time to perform the Phase 1 Case Management review. As Phase 1 and Phase 2 activities, however, it is unclear if DLR SMEs had adequate time to perform the Phase 1 Case Management review. As Phase 1 and Phase 2 activities are scheduled to occur simultaneously through June 2021, adequate project resources are needed to prevent further delays and resource burnout. 10/23/20 and 11/24/20: DLR project resources' capacity to perform project work is preventing the timely completion of some tasks. It is unclear if DLR has a dequate resources for testing and data conversion activities.	
System Software, Hardware and Integrations	2019.07.IT02	Risk	High	Moderate	An unclear interface solution may impa the design process and require additional effort to correct.	t The Content Management Design (version 1.0) document was approved by DIR on May 6, 2019. Case Management is currently in the design phase and design documents have not been provided. Although the Content Management design document was completed and Case Management design is in progress, the exact interface solution has not been defined. The interfaces between Content and Case Management are integral to the success of the project and should be fully defined in design documents in accordance with industry standards. Due to the recent DHS development, the interface options will need to also be researched and analyzed depending on the alternative solution selected. However, even prior to this development, DIR did not have a clear understanding of the interface solution as well as the complete technical solution. DIIR still had questions about the interface solution regarding the technology, connectivity, batch vs. real-time, security, cost and maintenance of the proposed interface solution between Salesforce and FileNet. The interface solution should be clearly analyzed, documented, mapped to project requirements, and communicated to DIIR.	2019.07.IT02.R2	Document the interface solution an analysis. Update the project schedule to define resources assigned to each of the interface-related activities. Verify the proposed interface solution will work.	solution including the following: * How Salesforce will query the selected Content Management solution * How files are uploaded to selected Content Management solution fron Salesforce * How metadata is uploaded into Salesforce * Who is responsible for setup, configuration, and maintenance and the steps required for implementation * What are the costs associated for development and long-term maintenance	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20, 08/21/20, 09/28/20, 10/23/20, and 11/24/20: IV&V does not have adequate visibility of integration activities or access to current builds to be able to better assess and identify potential risks and issues. Accuity will continue to evaluate the interface solution as additional details are finalized and as development progress using the actual solution components is made.	

ASSESSMENT ORIGINAL CURRENT	FINIDIALC	ANALYSIS	DECOMMENDATION ID	DECOMMENDATION.	CURRENTAL RECOMMENDATION	FINDING	EINDING CTATUS UPDATE	CLOSED DATE	CLOSURE REASON
Quality 2019.07.IT05 Risk Moderate Moderate Testing	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 reported. Additionally, the Quality Assurance Lead identified in DataHouse's BAFO is not assigned to the project team at this time.		Ferform quality management	DataHouse and DUR should collaborate and agree on the quality management processes and metrics that will best serve this project. Include quality standards or reference to specific criteria (refer to finding 2019.07.PM03). Update the project schedule to assign quality assurance resources (refe to finding 2019.07.PM14).		Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: There is no independent quality assurance for the eCMS Project as quality assurance testers are a part of the DataHouse and subcontractor teams. DUR needs to complete their quality management plan to outline how they plan to evaluate and ensure quality throughout the project.	GLOSEO DATE	elosone reason
		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.	20.00.00.00	activities on previously approved or submitted deliverables.			08/21/20: In an effort to prevent further delays for Phase 1 development, DataHouse plans to proceed with development even if DLIR lite UAT testing is not completed by the due date. Without a quality management plan or approach in place, it is unclear how DLIR and DataHouse will ensure quality and user satisfaction if the necessary DLIR project resources do not have the availability to timely complete testing. 09/28/20, 10/23/20, and 11/24/20: No updates to report.		
			2040 07 1707 24		5 1 1 1 5 1 1 1 5 1		Accuity will continue to evaluate the quality management plan and activities.		
Configuration 2019.07.IT06 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 eCMS Project was supposed to begin the Build stage of Phase 1. Although the recent DHS development will likely delay 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.		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 atsuta accounting process, configuration atsuta vaccounting process, configuration auditing process, interface control process, and release management process. •Datahouse and DUR should collaborate and agree on the configuration management plan purposes and processes that will best serve this project.		Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20, 08/21/20, 09/28/20, 10/23/20, and 11/24/20: No updates to report. Accuity will continue to evaluate the configuration management plan and approach.		
Security 2019.07.1T07 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 DIAR. Based on the current project plan, the eCMS Project was supposed to begin the Build stage of Phase 1. Although the recent DHS development will likely delay the start of the Build stage, not having a security management plan in place may result in improperly 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.	2019.07.IT07.R2	Ensure the security management plan meets specific standards. Finalize the security management plan.	Consider the industry standards and best practices above. DataHouse and DUR should collaborate and agree upon the specific standards that will best serve this project.	Open	Refer to the June 2020 IV&V Monthly Report for status updates prior to July 2020. 07/29/20: DataHouse performed remediation of AWS vulnerability scan findings and DUR, with the assistance of ETS, reviewed and approved the results. Additionally, DataHouse and DUR agreed on a process for continuing the performance and review of periodic AWS vulnerability scans. DUR plans to develop high-level timeline and tasks for developing the security management plan in August. 08/21/20: DUR and ETS are meeting regularly to develop the security management plan including selection of the security tools and framework. DUR plans to complete the high-level security timeline and tasks in September 2020. 09/28/20: DUR continues to evaluate, select, and implement various security tools and controls as part of the security management plan. DUR discussed some tasks for a high-level security imeline; however, decisions about which tasks must be completed by the upcoming Phase 1 Content Management golive or included as go/no-go-criteria are still pending. DUR plans to do a security risk assessment (SRA) with the assistance from ETS in October 2020 to identify any gaps in security. 10/23/20: The completion of the SRA was pushed back to early November 2020. 11/24/20: Accuity decreased the severity rating from Level 1 (High) to Level 2 (Moderate) as DUR completed a preliminary SRA and evaluated areas of risk. DUR has a high-level plan and timeline to continue evaluating and implementing security tools and controls. DUR also began to draft a RACI chart to outline roles and responsibilities for some security tasks. Accuity will continue to evaluate the security management plans and documentation as they are finalized.		

ASSESSMENT	EINDING IS	TVDE -	ORIGINAL	CURRENT	EINDING	ANALYSIS	DECOMMENDATION	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING	EINDING STATIIS LIPPATE	CLOSED DATE	CLOSURE REASON
Project Organization and Management	2020.08.PMI	101 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.	DataHouse's updated project management plan and project schedule was scheduled for completed and there is no estimated timeline for completion. Some of the details of the Phase 2 planning were verbally discussed including DataHouse's deliverables, assigned resources, and general approach; however, additional planning is needed. The current project management plan was last updated in August 2019 and many of the processes are outdated or need improvement (202.00 r.PM01). Additionally, the cCMS Project is now operating under completely different circumstances due to the COVID-19 pandemic (2020.03.PM01). The following are some of the project management plan details that are unclear or need improvement: *How Phase 1 and Phase 2 activities will be performed simultaneously with limited DUR project resources; priority of Phase 1 or Phase 2 tasks; process for resolving scheduling conflicts. *Improved process for managing DLIR project resource constraints; contingency plans for DLIR project resources; planning of DLIR project resources ability to work remotely including access, equipment, and technology. *How the Content Management and Case Management components for the Phase 2 will be developed; the number of Content Management forms in scope for Phase 2. *Roles and responsibilities for Phase 2 DataHouse and DLIR project team members. *Updated process for project communications for identification of Phase 2 internal and external stakeholders; alternative communication channels in place of standing project meetings or changes in working arrangements. *Process and metrics for evaluating project progress and performance for timely detection of issues. Although significant uncertainty due to the COVID-19 pandemic makes it difficult to know the exact road ahead, proactive planning and contingency planning are critical for anticipating changes and minimizing impacts to the project.		Complete Phase 2 planning.	Ensure mutual understanding of Phase 2 plan and approach between DataHouse and DUR. Provide adequate details of Phase 2 in the project schedule. Consider building contingency plans for COVID-19 into the project management plan and processes.	Closed	09/28/20: DataHouse updated the project management plan to include some additional details regarding Phase 2 deliverables and several project management processes. Additional clarification of project management processes (e.g., performance metrics, monitoring DUR project resource workloads, resolving conflicts, or priorities for phases), contingency plans, and the project schedule are still needed. 10/23/20: DataHouse and DUR 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 monitor project performance. DataHouse and DUR clarified processes for resolving conflicts or changes in resource availability and priorities for phases. DataHouse has not yet added the detailed tasks for Phase 2 beyond the planning stage and plans to add more detailed tasks as more specific project information (e.g., features, number of epics) is determined. The Case Management development team also monitors progress with stats on the number of user stories completed in each sprint and the number in the backlog.		Closed as DataHouse and DUR discussed project management processes. The need for a more detailed Phase 2 project schedule and improvements in project management processes with the processes of the processes of the processes will continue to be monitored under the 2019.07.MOP Risk Management, 2019.07.PM13 Schedule Management, 2019.07.PM14 Inadequate Resources, and 2019.09.PM02 Resource Management findings.
Project Organization and Management		Positive	N/A	N/A	The DataHouse Case Management development team works very collaboratively with DIR and demonstrates commitment to continuou improvement resulting in smoother project execution and increased transparency.	The Scrum methodology employed by the DataHouse Case Management development team inherently promotes collaboration, open communication, transparency, and process improvement through built in stailly stand-up 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 closely with DIR subject matter experts (SMEs) to ensure user and business needs are thoroughly understood. *Encouraged DILR SMEs to really explore opportunities for business process improvements. *Openly communicated solution options including rationale for optimal design considerations, limitations, and benefits as well as ways the solution can help to achieve business process improvements for DUR. *Listened to feedback from DILR and timely implemented improvements to project processes (e.g., user story approval process). *Demonstrated genuine commitment to the success of the project. This approach has helped DILR team members to build a high level of comfort with and understanding of the Case Management solution and has contributed to a smoother execution of the Case Management part of	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.ITO	Positive	N/A	N/A	The DataHouse team's swift and adaptive response to issues and risks minimized impact and further delays to project development.	the project. Many members of the DataHouse team have contributed to the following successes: -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 (ETS) security questions, and updating design documents. -Mitigated or remediated many of the high severity risks and issues from the IV8V Initial Report. The team's efforts to address many risks and issues are summarized in Appendix D. Additionally, DataHouse's willingness to open project team meetings to both DLIR and IV8V and time taken to address DLIR, V8V, and ETS concems have greatly contributed to the progress made since the Initial Report. -Demonstrated commitment to DLIR and project success. This includes the Content Management development team's flexibility in performing project work to accommodate the delays in the WC forms and the Case Management development team's openness to work towards a master RTM to facilitate traceability. Team members have demonstrated their commitment to doing what's best 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 further delays to the project schedule. They have also built positive momentum in moving the project forward.		N/A for positive findings.	N/A for positive findings.	Closed	N/A	10/25/2019	Closed as this is a positive finding.

ASSESSMENT			ORIGINAL	CURRENT			RECOMMENDATION ID			FINDING		0.0000 5.17	
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 (refer to finding 2019.07.PG02) and other project deficiencies noted throughout this report. However, as important as good sponsorship is, this factor alone can not be relied upon to guarantee project success.	N/A	N/A for positive findings.	SUPPLEMENTAL RECOMMENDATION N/A for positive findings.	Closed	FINDING STATUS UPDATE N/A	9/20/2019	Closed as this is a positive finding.
Governance Effectiveness	2019.07.PG02		Moderate		The lack of a formal executive steering committee and change control board may limit the effectiveness of project governance.	The DataHouse proposal and Project Management Plan (version 1.2) make references to a steering committee, however, a formal committee was ob- 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 representation of key stakeholders with the need for efficient decision making. Formalize the committee mission, responsibilities, and the types and the thresholds of decisions that need committee approval in a 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	09/20/19: Accuity decreased the severity rating from Level 2 (Moderate) to Lavel 3 (Low). The eCMS Executive Steering Cormittee (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. 10/25/19: The October 11, 2019 ESC meeting was effectively run by the DCD Project Sponsor to discuss key risks and issues and to align the eCMS Project direction with DLR and ETS strategic objectives. The thresholds for decisions that require committee attention were also established.		Closed as the eCMS ESC was formalized.
Governance	2019.07.PG03		Moderate		The unclear DataHouse contract terms may limit objective evaluation of contractor performance and contract fulfillment.	The procurement of the System Integrator (SI) for the eCMS Project was performed by DLIR EDPSO and reviewed by ETS. The RFP and DataHouse contract does not clearly outline expected deliverables, evaluation criteria for accepting deliverables, and clear delineation of roles and responsibilities. There has already been confusion or misunderstandings due to unclear contract terms in the areas of form design, risk and issue tracking (refer to finding 2019.07.PM09), requirements tracking (refer to finding 2019.07.PM01), and communications (refer to finding 2019.07.PM07). Additionally, the lack of specific acceptance criteria has led to approval of deliverables that do not meet industry standards (refer to finding 2019.07.PM.03). DataHouse has already prepared certain management plans and project documents and has been amenable to providing certain additional deliverables even though they were not clearly required to by the RFP or contract. Clear contract terms set expectations for deliverables and will assist DLIR to ensure that contractors fulfill obligations to the standard of quality that is required.		Evaluate the need for a contract modification to clarify contract terms.	Consider including key project documents as deliverables such as a requirements management plan and requirements traceability matrix (RTM) (refer to finding 2019.07.PM10), risk and issue log (refer to finding 2019.07.PM09), and testing documentation. Consider including acceptance criteria based on industry standards. Fo example, the acceptance criteria could be compliance with Institute of Electrical and Electronics Engineers (IEEE) 29148-2018 for a requirement traceability matrix or compliance with IEEE 829 for test documentation. Consider including measurable success metrics (refer to finding 2019.07.PM02). *Consider the need to outline roles and responsibilities between DLIR and DataHouse (refer to finding 2019.07.PM02).	or ts	09/20/19: DUR has decided to address this finding through updates of project plans. DataHouse 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 drafted which will also be an additional method for evaluating contractor performance and fulfillment.		Closed as DLIR will address through project plan updates. The need for clarification of roles and responsibilities as well as acceptance criteria and success metrics will continue to be monitored under the 2019.07.PG04 Success Metrics, 2019.07.PM02 Project Organization, 2019.07.PM03 Deliverable Review, and 2019.07.ITOS Quality Management findings.
Governance Effectiveness	2019.07.PG04	Risk	Low	N/A		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 experience. Having guidelines and checklists and access to project documents from past State projects would greatly benefit even experienced project teams. ETS, as the State of Hawaii's IT oversight office, is in the best position to gather project assets and put forth guidelines.		Initiate conversations with ETS to discuss DLIR T and project support 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 steering committee to align and clarify ETS vs. steering committee governing roles.	Closed	09/20/19: ETS began sharing best practices and lessons learned with DUR including taking the DUR Project Manager to sprint meetings for another State project. ETS is a member of the newly formed eCMS Executive Steering Committee (ESC) and will use that vehicle to share lessons learned with DUR Additionally, DUR is forming a DUR IT Steering Committee to provide oversight to all DUR IT projects. The DCD Executive Sponsor is a member of that DUR committee and plans to share eCMS lessons learned and project templates with other DUR IT projects.		Closed as discussions occurred with ETS and the risk is adequately mitigated with the planned course of action.
Benefits Realizatio	on 2019.07.PG06	Risk	Low	N/A	Failure to align statutes with the eCMS Project modernization objectives may reduce the operational improvements that are achieved.	The eCMS Project's primary modernization objective is to move to a paperless and automated business process. The new system is being designed to allow for electronic filing, routing, and tracking of forms. However, current disability compensation statutes have not been revised to require that these forms are filed electronically by law. As such, manual paper forms may continue to be submitted by external users such as claimants, employers, and insurance companies. As the development of a portal for public filing will not begin until Phase 3, this risk is not as imminent. However, as the evaluation of potential impacts, collection of feedback from stakeholders, and the legislative process to amend statutes is a long process, the initial planning should begin as early as possible so as not to postpone or reduce the realization of the benefits from the new system.		Develop a plan and timeline to amend the statutes to align to project and organizational objectives.		Closed	09/20/19: In 2016, DLIR convened a Working Group (WG) consisting of representatives from various DCD-related stakeholder groups. The WG provides an avenue for DLIR to understand stakeholders' concerns and a forum for the 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 FY2022 (effective July 1, 2023). This timeframe was decided on as it allows DLIR to proactively involve stakeholders in testing production and provide stakeholders the appropriate time to ready their systems for electronic filing.	9/20/2019	Closed as DLIR has a plan to align statutes with eCMS Project objectives.
Project Organization and Management	2019.07.PM01	Positive	N/A	N/A	The DLIR 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 DLIR Project Manager has some of the necessary leadership qualities that make her a good project manager. Her positive nature and collaborative approach develops trust with and satisfies concerns of many internal stakeholders. This has mitigated some of the communication and OCM risks (refer to findings 2019.07.PMO7 and 2019.07.PMO7. 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 resources (refer 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	BAFO without obtaining a written letter of intent between DataHouse and DHS. Furthermore, the eCMS Project advanced for 10 months without a forma MOU between DLIR and DHS and reliance on the DataHouse Project	The DataHouse BAFO proposed a technical solution that planned to leverage DHS's IBM FileNet environment; however, there was no written agreement between DataHouse and DHS that supported DHS intent to support shared services. Once the eCMS Project was underway, the MOU discussions with DHS were primarily led by the DataHouse Project Sponsor. The eCMS Project advanced for 10 months without finalizing the MOU between DHS and DUR. As the proposed solution is no longer viable due to the recent DHS development, an alternative solution must be determined (refer to finding 2019.07.IT01) and previously accepted or drafted deliverables may need to be updated. Although the eCMS Project will not be able to utilize DHS's IBM FileNet environment, the project still plans to leverage DHS's enterprise licenses for FileNet and Datacap. Before moving forward in the project, DUR should finalize all necessary agreements to ensure that the alternative solution is viable and prevent further delays.	2019.07.PM04.R3	Finalize the MOU to leverage DHS' enterprise licenses for FileNet and Datacap. DLIR should lead all discussions and negotiations of vendor contracts or agency agreements. Identify and complete all critical tasks prior to moving forward with an alternative solution.		Closed	09/20/19: The MOU with DHS for Datacap and FileNet licenses is close to being finalized. DUR received a draft from DHS on September 1, 2019 and it was sent to the Attorney General's office on September 17, 2019. Accuity has observed that DUR has led the contract discussions and negotiations with AWS.		Closed as the MOU with DHS is in process to be finalized and DLIR is leading contractor negotiations. The recommendation to identify all critical tasks will continue to be monitored under the 2019.07.PM13 Schedule Management finding.

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Project Organization and Management	2019.07.PM05	Risk	Moderate	N/A	A lack of clarify on DataHouse's development methodology may not allow or adequately prepare stakeholders to participate readily.	DataHouse is using a modified Agile development methodology that is referred to as "Water-Scrum-Fall". This is a combination of the waterfall and Agile methods that defines the full set of requirements at the beginning but uses Agile user stories and sprints while building the software. Based on the current project plan, he cCMS 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 the kickoff of this stage, there are a number of concerns regarding the transition to the Scrum methodology: *DataHouse has not yet fully determined the number, length, and details of the sprints. *The project schedule also does not yet reflect the agile sprints cycles or identify resources who are expected to participate. *There have not been communications with the DLIR project team and stakeholders regarding the Scrum methodology or the roles and responsibilities they have during this stage of the project. *Many of the DataHouse project team members work remotely and are unable to work on-site.	2019.07.PM05.R1	Formalize an 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 retrospectives, daily standups, burndown charts, and frequent user demonstrations and feedback. *Establish the backlog preparation and refinement process. *Establish virual conferencing tools and communication protocols for geographically distributed team members. *Set the number and length of the sprints. *Update the project schedule for sprint activities and assign resources (refer to finding 2019.07.PM14). *Include clear and detailed procedures and roles and responsibilities for Scrum tasks (refer to finding 2019.07.PM02). *DUR should be included in project team activities (refer to finding 2019.07.PM02).	Closed	09/20/19: Accuity has kept the severity rating as Level 2 (Moderate). Although DataHouse has incorporated the Case Management sprint schedule into the overall project schedule and provided a high-level overview of the requirements/user stories to be covered by each sprint, roles and responsibilities still need to be clearly defined and communicated. The Case Management development team follows a classic Scrum model and plans to clarify 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 semi-agile process and drafted an overview document of the team's change management practices. 10/25/19: The Case Management development team held a training for the DLIR Product Owners to provide an overview of the Scrum methodology and the Product Owner role and responsibilities.	10/25/2019	Closed as the Scrum methodology has been formalized and was communicated to the DLIR eCMS Product Owners. The recommendation to communicate the methodology to all impacted stakeholders will continue to be monitored under the 2019.07.PM07 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, walkthrough the process with stakeholders, and make updates to the processes maps. As a result of this process, DataHouse provided future state processes maps. However, Team Acculty was unable to clearly understand how processes were prioritized for change, root causes were addressed, or processes were improved (e.g., 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 manifested through: faster throughput of data into the system; faster response times to requests by users, less errors reported in the system; faster response times to requests by users, less errors reported in ont clearly identify how this deliverable will be supported, evaluated, or accepted by DLIR (refer to finding 2019.07.PG03). There should be clear documentation on how the new solution plans on measuring and achieving key business process improvement performance goals. The IV&V recommendations made at 2019.07.PG05.R1, 2019.07.PG05.R2, and 2019.07.PG05.R3 regarding clear and measurable goals and success metrics will also address this finding. Below is an additional recommendation to further improve BPR activities.		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: Accuity 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 sprint sessions; however, identified opportunities are not formally tracked. 12/20/19: The Case Management user story tracker tool identifies which user stories resulted in BPR.	12/20/2019	Closed as user stories resulting in significant BPR can be identified for communications and training.
System Software, Hardware and Integrations	2019.07.IT01	Issue	High	N/A	The original solution proposed by DataHouse in their BAFO to leverage the existing DBF fileNet hosting infrastructure is no longer a feasible solution.	There are a number of items in the DataHouse BAFO that are no longer feasible based on the inability to leverage the existing DMS FileNet environment. Under the original solution, DMS would monitor and maintain the enterprise IBM FileNet environment. As DMS will no longer be providing access to take on the monitoring and maintenance of the IBM FileNet infrastructure. As DataHouse recommended in the BAFO the on-premise installation for the IBM ECM solution due to the capture volume and higher performance of document file transfers over the LAN and internal State network, DLR should be provided with a technical analysis of various solution options that includes a comparison of the alternatives on performance. Although this issue relates to the proposed hosting infrastructure solution for Content Management, this is an opportunity for both DataHouse and DLR to reassess the total solution considering all updated technological opportunities available today. DLR should ensure that DataHouse performs sufficient analysis regarding possible alternative solution options DLR should also take the time to perform adequate due diligence before making any decisions. It is important that thorough analysis and adequate due diligence is performed before moving forward in the project in order to avoid further project delays and to ensure that the delivered system will meet operational and stakeholder requirements.	2019.07.(TO1.R2	Evaluate other total solution alternatives for an alternative solution. Prepare a comprehensive technical analysis of the alternative solution.	Consider solutions that could include other technical applications that could utilize a different choice of methodology using different tools, provide a cheaper solution for the longer-term, and faster implementation. Consider the following website which lists 20 competitive alternatives to IBM FileNet for consideration: www.g2.com/products/ibm-filenet-conten manager/competitors/alternatives. Additional research could result in more extensive choices going forward. Include the impact of the alternative solution to project cost, schedule, resources, security, maintenance and operations, system software, hardware integration requirements, performance requirements, and required infrastructure to ensure a complete and successful working solution. *Clearly define what needs to be completed, who is responsible, steps for completion, and timing. *Considerations for impact on project cost includes costs related to the following: *Processing, storage and connectivity Operating system and database management licensing Interfacing technologies *Maintenance and operations *Maintenance and operations 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		09/20/19: In July 2019, DataHouse presented AWS as a potential alternative solution. The proposed AWS solution was compared to another cloud solution, Microsoft Azure, in respects to cost and performance. DataHouse reviewed the listing of content management solutions provided by Accuity and concluded that IBM FileNet was the best solution for this project; however, no formal analysis was prepared. DUR approved AWS as the replacement hosting infrastructure solution effectively remediating the inability to leverage the DHS FileNet environment issue. Accuity had also recommended that a comprehensive technical analysis be prepared on the replacement solution; however, DUR decided not to formally document the analysis as they are comfortable with the selection based on reacting of AWS whitepapers, the information provided by DataHouse, and discussions with ETS and EDPSO.	9/20/2019	Closed as a replacement solution was approved by DUR. As a comprehensive analysis was not prepared and there is still a need for additional clarification regarding certain aspects of the replacement solution, Accuity will continue to monitor plans for AWS security under finding 2019.07.1T07, AWS M&O roles and responsibilities under the new preliminary concern 2019.10.IT02, and AWS costs under finding 2019.07.PM12.

ASSESSMENT CATEGORY	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING STATUS	FINDING STATUS UPDATE	CLOSED DATE	E CLOSURE REASON
Design	2019.07.1T03	Issue	High	N/A	The Content Management design documents were based on incomplete, inaccurate, and outdated requirements.	Case Management is currently in the design phase and design documents have not been provided. The Content Management Design (version 1.0) approved by DIR on May 6, 2019. The recent DFIS development will require design documents to be updated after an alternative Content Management hosting infrastructure solution is selected. However, even prior to this development, the Content Management design documents were drafted based on requirements documentation that is incomplete (refer to finding 2019.07.PM10). The requirements document deficiencies should be remediated immediately and the design documents updated accordingly.		design documents.	Consider updates for revised requirements documents (refer to finding 2019,07.PM I0) 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 above at finding 2019.07.PM10, DataHouse is in the process of updating the requirements documentation to include all requirements from the DataHouse contract. 10/20/19: The Content Management Design Document (version 1.2) was updated to refine or add requirements.	10/25/2019	Closed as the Content Management design documents are regularly updated as changes to requirements are made. The completeness of the design with respect to contract requirements will continue to be monitored under the 2019.07.PM10 requirements finding.
Data Conversion	2019.07.1T04	Risk	Moderate	N/A	plan that is based on incomplete, inaccurate, and outdated requirements	Case Management is currently in the design phase and data conversion and Migration (version 0.0) document was drafted by DataHouse on June 13, 2019 but was not yet approved by DDIR. The document was drafted based on requirements documentation that is incomplete (pefer to finding 2019 0.7 PM 10). Furthermore, the Content Management Conversion and Migration (version 0.0) document included a risk that changes to the requirements after a certain point in the project may cause additional effort to re-factor the migration design process. 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 conversion plan is based on accurate system requirements. The requirements document deficiencies (refer to finding 2019.07.PM10) should be remediated immediately and the data conversion plan updated accordingly.			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 updated on 09/05/19 before the Content Management Design Document (version 1.1) was updated on 09/15/19 to include additional design requirements. Changes to requirements should be evaluated for the impacts on the conversion and migration plans and the detailed taxonomy mapping. 10/25/19: DataHouse evaluated the new requirements and determined that there is no impact to the high level Content Management conversion requirements included in the Conversion and Migration Plan. 11/22/19: Accuity reviewed the taxonomy mapping with the primary stakeholder and confirmed that changes in system requirements will not have a significant impact on the Content Management data conversion plan as the legacy system has limited data fields that are currently used.		Closed as changes in system requirements do not appear to significantly impact the Content Management data conversion plan.

Appendix E: Prior IV&V Reports

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



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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