

OFFICE OF ENTERPRISE TECHNOLOGY SERVICES

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January 24, 2020

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

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

Dear President Kouchi, Speaker Saiki, and Members of the Legislature:

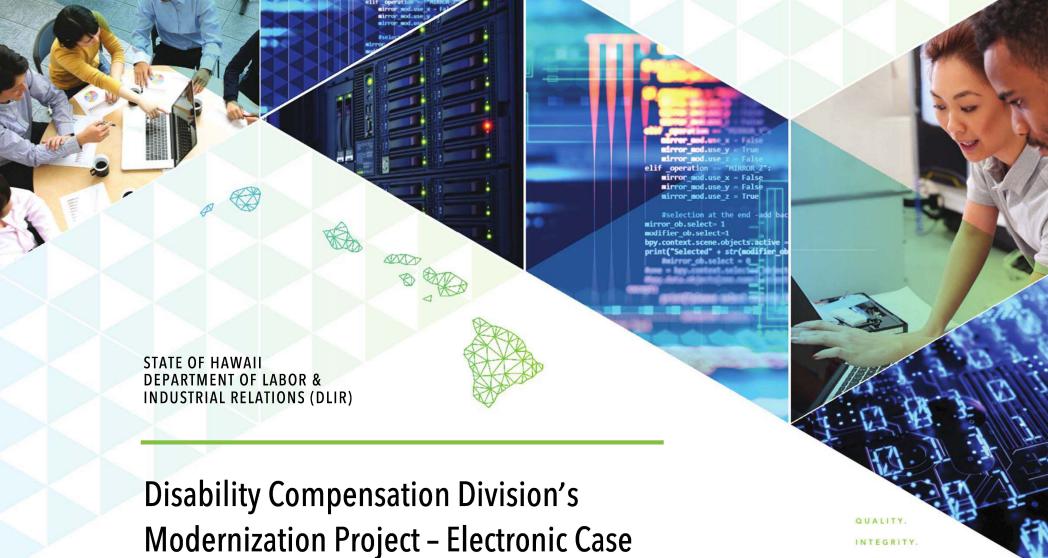
Pursuant to HRS section 27-43.6, which requires the Chief Information Officer to submit applicable independent verification and validation (IV&V) reports to the Legislature within ten days of receiving the report, please find attached the IV&V report the Office of Enterprise Technology Services received for the State of Hawaii Department of Labor& Industrial Relations Disability Compensation Division's Modernization Project – Electronic Case Management System.

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

Sincerely,

DOUGLAS MURDOCK Chief Information Officer State of Hawai'i

Attachment (1)



Management System (eCMS)

MONTHLY ON-SITE IV&V REVIEW REPORT

December 20, 2019 | Version 1.0

REPORT FINALIZED

January 21, 2020

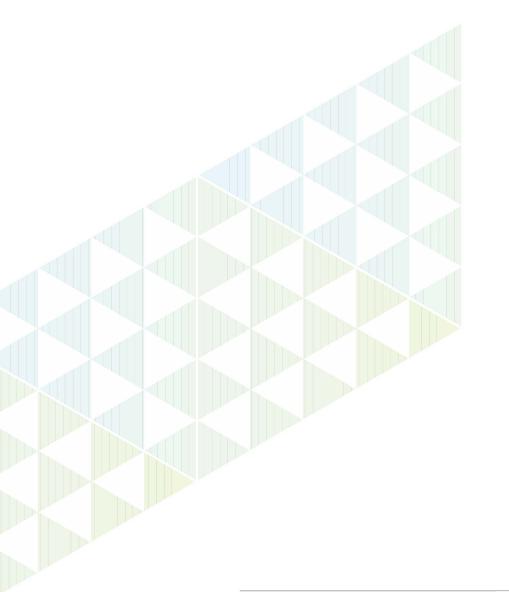


INSIGHT.

CERTIFIED PUBLIC ACCOUNTANTS







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Document History

DATE	DESCRIPTION	AUTHOR	VERSION
01/10/20	Monthly On-site IV&V Review Report Draft created	Julia Okinaka	0.0
01/21/20	Monthly On-site IV&V Review Report finalized with no updates to draft report. No comments submitted in Appendix F.	Julia Okinaka	1.0



EXECUTIVE SUMMARY

BACKGROUND

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

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

The project is currently in the Phase 1 Build stage for both Content Management and Case Management. The focus of our IV&V activities for this report included an evaluation of resource management, schedule management, and security. A review of testing plans and processes was not performed as the test plans have not yet been completed.

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 December 20, 2019. Additional explanation is included in the Findings and Recommendations by Assessment Area for new findings and in the Appendix D: Prior Findings Log for prior report findings. Refer to Appendix A: IV&V Criticality and Severity Ratings for an explanation of the ratings.

PROJECT TEAM

"Great things in business are never done by one person;

team of people."

they're done by a

- Steve Jobs



PROJECT ASSESSMENT

AS OF DECEMBER 20, 2019

SUMMARY RATINGS

OVERALL RATING



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

PROGRAM GOVERNANCE



PROJECT MANAGEMENT



TECHNOLOGY



CRITICALITY RATINGS

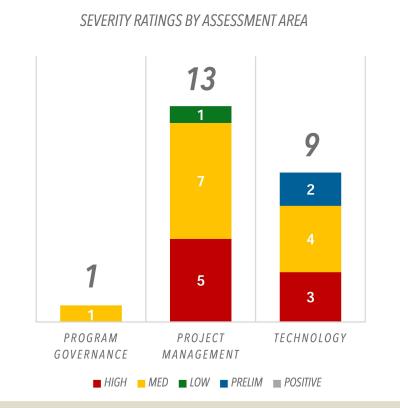




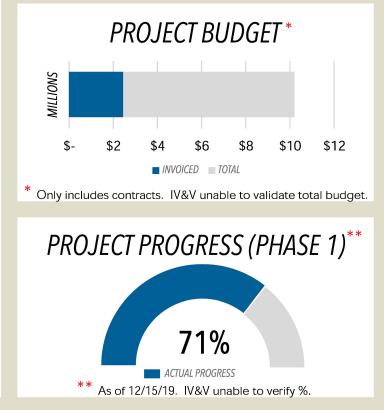


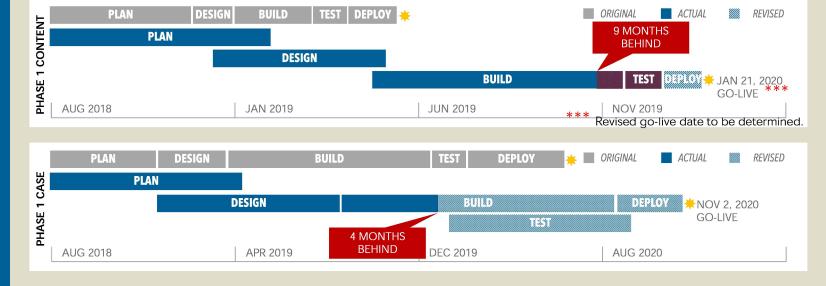


23 OPEN FINDINGS



38 OPEN RECOMMENDATIONS





ASSESSMENT AREA & RATINGS SUMMARY

AS OF DECEMBER 20, 2019

ОСТ	NOV	DEC	IV&V ASSESSMENT AREA	IV&V OBSERVATIONS
Y	Y	Y	Overall	Two IV&V Assessment Categories improved and three categories declined. The overall rating reflects the collective deficiencies identified for many foundational project processes and the need to complete critical project tasks as discussed below. Project resource constraints limit the project team's ability to make significant improvements and will continue to be a challenge as the pace of the project activities speeds up in the Build and Test stages of Phase 1.
				<i>Project Schedule:</i> A feasible go-live date for Content Management has not yet been determined. Accuity is unable to validate the project progress percentage or assess the impact of schedule variance due to the current schedule management practices (refer to finding 2019.07.PM13).
				<i>Project Costs:</i> Project contract costs invoiced to date approximated \$2,452,000. Accuity is unable to validate the total project budget or assess cost variances due to the current cost management practices (refer to finding 2019.07.PM12).
				Quality: DLIR has not yet finalized success or quality metrics (refer to findings 2019.07.PG05 and 2019.07.IT05). Accuity will evaluate progress towards achieving project goals when the metrics are finalized.
G	G	G	Program Governance	The eCMS Project Executive Steering Committee (ESC) continues to provide guidance and oversight to the eCMS Project including exploring key design decisions and options. DLIR needs to set DLIR's IT policies and strategy and the project success metrics.
①	Y	Y	Project Management	Requirements management, schedule management, and resource management deficiencies require immediate remediation as these are foundational project processes that significantly impact the performance of the overall project and are necessary for effective project management. Stakeholder communications need to be delivered more timely and new communication methods within the project team should be explored to increase effectiveness.
•	V	•	Technology	The Case Management development team is implementing user stories for Epic 2 Sprint 2. The Scrum methodology used by the Case Management development team allows flexibility in refining requirements to best meet stakeholder needs, has built in process improvement mechanisms, and promotes frequent and open team communication. The Content Management development team is still awaiting fixes from IBM for a technical issue as well as the completion of the AWS environments to proceed with data conversion, training, and testing activities. Critical tasks impacting the project schedule include the installation of the Content Management applications in the AWS environments and implementation of security controls and procedures for AWS. Test, quality management, and configuration management plans are incomplete and are necessary to establish foundational project processes that also have a significant impact on overall project performance.

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 each of the three major IV&V Assessment Areas. Two IV&V Assessment Categories improved and three declined from the prior report. The overall rating reflects the collective deficiencies identified in many foundational project processes and the need to complete a few critical project tasks. Project resource constraints continue to limit progress. Additionally, a feasible go-live date for Content Management has not yet been determined.

FINALIZE security and test plans Improve FOUNDATIONAL project processes Reevaluate SCHEDULE estimates OPTIMIZE resource management

ОСТ	NOV	DEC	PROGRAM GOVERNANCE
G	G	G	Governance Effectiveness
Ŷ	V	V	Benefits Realization
ОСТ	NOV	DEC	TECHNOLOGY
~	Y	Y	System Software, Hardware, and Integrations
G	G	6	Design
V	V	V	Data Conversion
V	R	R	Quality Management and Testing
	Y		Configuration Management
R	R	R	Security

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



PROGRAM GOVERNANCE

Governance Effectiveness

Benefits Realization



PROGRAM GOVERNANCE

ОСТ	NOV DEC	NOV DEC IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS			
OCI	NOV	DEC	CATEGORY	IVAV ODSERVATION	NEW	OPEN	CLOSED
G	G	G	Governance Effectiveness	The eCMS Project Executive Steering Committee (ESC) continues to provide guidance and oversight to the eCMS Project. The Office of Enterprise Technology Services (ETS) IT Governance group performed a review of software development practices and provided input on solution design options. The DLIR Electronic Data Processing Systems Office (EDPSO) and the DLIR Modernization Steering Committee are developing the DLIR IT policies and strategy.	0	0	0
①	₹	V	Benefits Realization	The project success metrics were not yet established and DLIR is now targeting January 2020 for completion. A clear understanding and agreement of project benefits and how to achieve them are necessary to ensure all project team members are working towards the same definition of success.	0	1	0



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

ОСТ	OCT NOV		DEC IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		
OCI	NOV	DEC	CATEGORY	IVAV ODSERVATION	NEW	OPEN	CLOSED
~		Y	Project Organization and Management	DLIR and the DataHouse Case Management development team work collaboratively resulting in increased understanding and transparency. DLIR still has limited visibility into other areas, such as system integrations, data conversion, and testing, which impacts DLIR's ability to prepare and plan for DLIR's part in those processes. Clarification of roles and responsibilities is needed for M&O and testing. Formal change requests are still pending for significant project changes.	0	3	0
R	R	R	Scope and Requirements Management	The DataHouse Case Management development team continues to refine user stories during each development sprint. Requirements management deficiencies requiring immediate attention include incomplete documentation of non-functional requirements (e.g., security, performance) and traceability of requirements from contract to design to development to testing. Requirements management continues to be a high criticality area due to the impact it has on development, testing, and ultimately user acceptance and satisfaction.	0	2	0
R	R	R	Cost, Schedule, and Resource Management	The Content Management go-live date has not yet been adjusted for delays caused by the AWS environments and connections. Additionally, unrealistic time estimates, missing tasks, and unidentified task dependency relationships are the most crucial schedule deficiencies that need to be addressed. Resources is another high criticality area as resource constraints and informal resource management processes continue to limit progress and improvements. Resource management processes need to be optimized to better utilize the limited project resources.	0	4	0



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

OCT	OCT NOV DEC		DEC IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		
- 001	NOV	DLC	CATEGORY	TVQV OBSERVATION	NEW	OPEN	CLOSED
☆			Risk Management	Risks continue to be discussed at the weekly status meetings and monthly ESC meetings, however, the DLIR and DataHouse risk logs still need to be combined, owners assigned, and mitigation plans developed for each risk or issue.	0	1	0
Y	V	V	Communications Management	Although frequent communications do occur between DataHouse and DLIR, new communication approaches should be considered to increase effectiveness of communications regarding ongoing project activities, project processes and tools, upcoming due dates, and impacts of decisions or actions. The project website was not launched as planned and DLIR is now targeting January 2020 for completion. Stakeholder communications need to be timely and with all impacted stakeholders.	0	2	0
^			Organizational Change Management (OCM)	OCM continues to occur as an indirect result of other project communications rather than through a structured OCM approach and planned OCM activities. There is a lot of opportunity to leverage existing communication channels to execute OCM focused activities.	0	1	0
(1)	(G	Business Process Reengineering (BPR)	BPR improvements continue to be delivered through each Case Management development sprint. The Case Management user story tracker tool identifies which user stories resulted in BPR.	0	0	1
NA	NA	NA	Training and Knowledge Transfer	Training and knowledge transfer activities are not occurring at this stage of the project. The Content Management training dates will be revised in the new project schedule.	0	0	0



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

FINDING #: 2019.09.PM02

STATUS: OPEN

TYPE: RISK

SEVERITY:



TITLE: UNDEFINED RESOURCE MANAGEMENT PROCESSES AND PROCEDURES

Finding: Undefined resource management processes and procedures may result in unidentified resource requirements, inadequate resources, or project resources that are not optimally utilized.

Industry Standards and Best Practices: Project Management Institute (PMI) Project Management Body of Knowledge (PMBOK) Chapter 9 outlines resource management best practices for estimating resource requirements, acquiring resources, developing resources, and managing resources.

Analysis: 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 Project Management Plan (version 1.3) includes a human resource management section that outlines the high-level roles and responsibilities of various team members but does not define a process for how resources will be managed. This will become more critical for DLIR as the project gears up for more resource demanding activities including data conversion, testing, and sprint reviews. Additionally, DLIR project team resources are not fully dedicated to the project and still perform other job duties. Developing processes and procedures to track and quantify upcoming resource needs, identify available resources, procure or obtain commitments of resources, manage resource schedules, communicate with assigned resources and their supervisors, and train resources for assigned tasks will help to minimize project delays.

DLIR developed a rough estimate of hours to perform scanning and data entry of Case Management paper files but more precise estimates based on a trial run of sample cases and a decision on what cases must be converted by go-live is needed (refer also to finding 2019.11.IT01). Additionally, DLIR needs to perform an analysis to determine how many resources can be acquired with budgeted funds and whether those acquired resources will be able to complete necessary data conversion activities by the targeted go-live.

DLIR has not yet completed a test plan (refer to finding 2019.10.IT01), estimated resource requirements for testing, or formalized a plan for scheduling testers.

The IV&V recommendations made at 2019.07.PM14.R1 and 2019.07.PM14.R2 regarding evaluating resource needs and resource reports will also address this finding. Below are additional recommendations to further improve data conversion plans and activities.



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

FINDING #: 2019.09.PM02

STATUS: OPEN

TYPE: RISK

SEVERITY:



TITLE: UNDEFINED RESOURCE MANAGEMENT PROCESSES AND PROCEDURES (continued)

Recommendation: 2019.09.PM02.R1 – Develop procedures to estimate and refine DLIR resource requirements.

- Detail necessary steps and information needed to estimate and refine resources requirements.
- Consult DataHouse for input on upcoming activities that require DLIR resources and clarify expectations of resources.
- Assign responsibility for and establish target due dates to develop resources estimates for major project activities (e.g., data conversion, testing).

2019.09.PM02.R2 - Develop processes to optimize utilization of DLIR project resources.

- Consider working with managers of project resources to reassign team members' other job duties.
- Consider periodically reconfirming and renewing resource commitments to the project.
- Ensure team members understand their responsibilities (e.g., testing, sprint user story contact, project communications, OCM) and assignments.
- Ensure team members are properly trained and prepared to perform their assignments.
- Explore use of tools for resource calendars and tracking of team member assignment progress and completion.



TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security



ОСТ	NOV DEC		DEC IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		
	NOV	DLC	CATEGORY	IVAV ODSERVATION	NEW	OPEN	CLOSED
₹	↔	Y	System Software, Hardware, and Integrations	The Case Management development team continues to implement user stories in Epic 2 Sprint 2. Progress for Content Management has stalled due to pending AWS environments and application connections as well as a technical issue with the IBM solution. Accuity is not reporting the technical issue as an IV&V finding as DataHouse is already tracking this issue in the project RAID log (Issue #7 September 2019), however, the technical issue is reflected in the criticality rating for this IV&V Assessment Category as the timeline for IBM to provide a viable fix is still unknown and DLIR does not have a clear understanding of the potential impact this technical issue could have on the project and the end users if not resolved. IV&V does not have visibility into integration development activities to provide an update on integration development progress. The Memorandum of Understanding (MOU) with the State Department of Human Services (DHS) for IBM FileNet and Datacap was executed.	0	2	0
6	G	•	Design	The Content Management and Case Management design continues to be refined during the Build stage. Although DLIR previously made a decision to use AWS direct connect, the eCMS Project must go forward with the use of the DLIR VPN tunnel due to AWS direct connect reconfiguration costs and AWS public gateway issues. DataHouse planned to provide an updated Case Management design document after the completion of each development Epic, however, the latest version of the design document is still pending. Although security design is still unclear, this is covered in the Security IV&V Assessment Category.	0	0	0



TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security

ОСТ	NOV	OV DEC	DEC IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS		
001	NOV	DLC	CATEGORY	IVAV OBSERVATION	NEW	OPEN	CLOSED
V	V	V	Data Conversion	Content Management data conversion activities are still awaiting the DLIR AWS environments. DLIR needs to evaluate Case Management data conversion approaches and formalize a plan for scanning paper files. Additionally, further clarification of the data conversion tools, reports, and processes is still needed for both Content Management and Case Management in order for DLIR to adequately prepare for upcoming data conversion activities including pending plans for DLIR data conversion testing.	0	2	0
V	R	R	Quality Management and Testing	The DataHouse and DLIR test plans and the DLIR quality management approach are still pending and the timeline to complete these is currently unknown. DataHouse is performing testing activities, however, IV&V does not have visibility to provide an update or assessment of DataHouse testing. The Content Management user acceptance testing (UAT) is awaiting the DLIR AWS environments and application connections. The Case Management development team walked through the tool that will be used and the steps to perform and document preliminary UAT for each user story at the end of each development Epic.	0	2	0
Y	☆	Y	Configuration Management	There is still confusion on configuration management processes and required DLIR approvals. DLIR plans to draft a policy of what configuration items require DLIR approval and the designated DLIR approvers. DataHouse has drafts of the configuration management approaches for the Content Management and Case Management development teams, however, a comprehensive configuration management plan including the DLIR approval process is still pending.	0	1	0



TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security

СТ	NOV	DEC	IV&V ASSESSMENT IV&V OBSERVATION	F	INDING	S	
	NOV	DLC	CATEGORY	IVAV OBSERVATION	NEW	OPEN	CLOSED
R	R	R	Security	DLIR efforts to identify security requirements are underway. Security is a high criticality area as the identification of security requirements and implementation of the necessary security controls will impact when the AWS environments will be ready for use for pending data conversion, testing, and training activities. The Security Management Plan that includes DataHouse's Application Security Management Plan is pending and a timeline for completion is currently unknown.	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.

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. Up arrows indicate improvements or progress made, down arrows indicate a decline or inadequate progress made in areas of increasing risk or approaching timeline, and no arrow indicates there was neither improving or declining progress from the prior report.

TERMS

RISK

An event that has not happened yet.

ISSUE

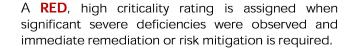
An event that is already occurring or has already happened.



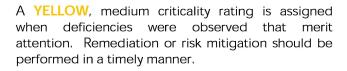


















A **GREEN**, low criticality rating is assigned when the activity is on track and minimal deficiencies were observed. Some oversight may be needed to ensure the risk stays low and the activity remains on track.



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



Severity Rating

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

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

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



SEVERITY 1: High/Critical level



SEVERITY 2: Moderate level



SEVERITY 3: Low level



TERMS

POSITIVE

Celebrates high

performance or

PRELIMINARY CONCERN

Potential risk

analysis.

requiring further

project successes.

Appendix B: Industry Standards and Best Practices

STANDARD	DESCRIPTION
ADA	Americans with Disabilities Act
ADKAR®	Prosci ADKAR®: Awareness, Desire, Knowledge, Ability & Reinforcement
BABOK® v3	Business Analyst Body of Knowledge
IEEE 828 -2012	Institute of Electrical and Electronics Engineers (IEEE) Standard for Configuration Management in Systems and Software Engineering
DAMA-DMBOK2	DAMA International's Guide to the Data Management Body of Knowledge
HIPAA	Health Insurance Portability and Accountability Act of 1996 (HIPAA)
MARS-E 2.0	CMS Minimum Acceptable Risk Standards for Exchanges – Exchange Reference Architecture Supplement (MARS-E)
MITA 3.0	Medicaid Information Technology Architecture
TOGAF 9.2	The TOGAF® Standard, Version 9.2
COBIT 2019 Framework	Framework for customizing and right-sizing enterprise governance of information and technology
IEEE 1062-2015	IEEE Recommended Practice for Software Acquisition
PMBOK® – Sixth Edition	Project Management Institute (PMI) Project Management Body of Knowledge (PMBOK®)
PROSCI	Leading organization providing research, methodology, and tools on change management practices
IEEE 1012-2016	IEEE Standard for System, Software, and Hardware Verification and Validation
IEEE 1061-1998	IEEE Standard for a Software Quality Metrics Methodology
IEEE 730-2014	IEEE Standard for Software Quality Assurance Processes
ISO 9001:2015	Quality Management Systems – Requirements
ISO/IEC 25010:2011	Systems and Software Engineering – Systems and Software Quality Requirements and Evaluation (SQuaRE) – System and Software Quality Models



STANDARD	DESCRIPTION
IEEE 29148-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Requirements Engineering
ISO 16085:2006	Systems and Software Engineering – Life Cycle Processes – Risk Management
ISO/IEC TR 20000- 11:2015	Information Technology – Service Management – Part 11: Guidance on the relationship between ISO/IEC 20000-1:2011 and service management frameworks: ITIL®
SAML v2.0	Security Assertion Markup Language v2.0
SoaML 1.0.1	Service Oriented Architecture Modeling Language
CMMI-DEV Version 1.3	Capability Maturity Model Integration for Development
IEEE 1016-2009	IEEE Standard for Information Technology – Systems Design – Software Design Descriptions
IEEE 12207-2017	ISO/IEC/IEEE International Standard - Systems and Software Engineering - Software Life Cycle Processes
IEEE 14764-2006	ISO/IEC/IEEE International Standard for Software Engineering – Software Life Cycle Processes – Maintenance
IEEE 15289-2017	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Content of Life-Cycle Information Items (Documentation)
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 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 12207:2017	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Software Life Cycle Processes
IEEE 23026:2015	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Engineering and Management of Websites for Systems, Software, and Services Information
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 42010:2011	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Architecture Description



STANDARD	DESCRIPTION
SWEBOK V3	Guide to the Software Engineering Body of Knowledge
ISO/IEC 27002:2013	Information Technology – Security Techniques – Code of Practice for Information Security Controls
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 V4	National Institute of Standards and Technology (NIST) Security and Privacy Controls for Federal Information Systems and Organizations
NIST Cyber Security Framework V1.1	NIST Framework for Improving Critical Infrastructure Cybersecurity
IEEE 1044-2009	IEEE Standard Classification for Software Anomalies
IEEE 16326:2009	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Project Management
IEEE 1484.13.1-2012	IEEE Standard for Learning Technology – Conceptual Model for Resource Aggregation for Learning, Education, and Training
IEEE 15288-2015	ISO/IEC/IEEE International Standard – Systems and Software Engineering – System Life Cycle Processes
IEEE 29148-2018	ISO/IEC/IEEE International Standard – Systems and Software Engineering – Life Cycle Processes – Requirements Engineering
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



Appendix C: Interviews, Meetings, and Documents

INTERVIEWS

DATE	INTERVIEWEE
12/13/19	Interview with JoAnn Vidinhar (DCD Executive Sponsor) and Marla Takahama-Stark (DLIR Project Manager)
12/13/19	Interview with Teri Watanabe (DataHouse Project Manager)
12/17/19	Interview with Bennett Yap (EDPSO Chief)

MEETINGS

DATE	MEETING DESCRIPTION
11/25/19	Case Management Epic 2 Sprint 2.1 Review Session
11/25/19	eCMS Salesforce Technical Review Meeting
11/26/19	Content Management Service Accounts Meeting
11/26/19	Case Management Epic 2 Sprint 2.1 Review Session Part 2
11/26/19	Case Management Sprint 2.2 User Stories Deep Dive Meeting
11/26/19	Use of ETS Direct Connect for eCMS Meeting
12/02/19	IV&V On-Site Summary Meeting
12/03/19	Monthly eCMS Steering Committee Meeting
12/03/19	Case Management Sprint 2.2 Planning Meeting
12/04/19	DCD Web Browsers for Salesforce Meeting
12/05/19	Case Management Daily Scrum Meeting
12/06/19	Case Management Sprint 2.1 Retrospective Meeting



MEETINGS (CONTINUED)

DATE	MEETING DESCRIPTION
12/10/19	Weekly PM Status Meeting
12/10/19	Case Management Conversion and Migration Taxonomy Mapping Review Meeting
12/12/19	FileNet Containers Meeting
12/12/19	Case Management Bug Tracker Meeting
12/12/19	Case Management Daily Scrum Meeting
12/12/19	Use of ETS Direct Connect for eCMS Meeting Part 2
12/13/19	Case Management Settlement and Decisions Deep Dive Meeting
12/19/19	Case Management Daily Scrum Meeting
12/19/19	Security Requirements and Controls Working Session
12/20/19	IV&V On-Site Summary Meeting

DOCUMENTS

ТҮРЕ	DOCUMENT						
Request for Proposal	State of Hawaii DLIR DCD RFP No. RFP-17-002-DCD (Release Date 04/12/18)						
DataHouse Proposal	DataHouse ECMS Best and Final Offer (BAFO) Proposal (Dated 06/20/18)						
Request for Proposal	State of Hawaii DLIR DCD IV&V RFP No. RFP-18-001-DCD (Release Date 12/28/18)						
Contract	Contract between State of Hawaii and DataHouse Consulting Inc. (Effective 08/27/18)						
Project Management	DataHouse Project Management Plan 1.3 (Updated 08/30/19)						
Project Management	DataHouse Project Status Report (Status Date 11/18/19 for reporting period 10/16 – 10/31/19)						
Project Management	DataHouse Project Status Report (Status Date 12/08/19 for reporting period 11/01 – 11/15/19)						



DOCUMENTS (CONTINUED)

TYPE	DOCUMENT
Project Management	Weekly PM Status Meeting Agenda and Minutes for 12/10/19
Risk and Issues	RAID (Risk Action Issue Decision) Log (Updated 12/13/19 by DataHouse Project Manager)
Development	DataHouse Development Team Status Meeting Minutes for 12/04/19
Development	DataHouse Development Team Status Meeting Minutes for 12/11/19
Development	DataHouse Next Steps from 11/26/19 Meeting for Use of ETS Direct Connect Meeting
Development	ETS DCD eCMS Technical Review Minutes for 11/25/19
Data Conversion	Content Management Conversion and Migration Version 1.3 (Updated 12/22/19)
Data Conversion	Docushare Backup File email thread (12/18/19)
Software	License Sharing Agreement with the State of Hawaii Department of Human Services (12/18/19)
Security	DataHouse eCMS AWS Security
Schedule	eCMS Microsoft Project Plan as of 12/15/19 (MPP file)
Costs	DCD eCMS Modernization Project – Services (Excel file) (Updated 12/19/19)
Communication	Notification to Adjusters Letter – Revised (12/10/19)
Governance	eCMS ESC Meeting Agenda (12/03/19)
Governance	eCMS ESC Meeting Minutes (12/03/19)





Appendix D: Prior Findings Log



Appendix D: Prior Findings Log

ASSESSMENT			ORIGINAL	CURRENT						FINDING			
CATEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Data Conversion	2019.11.IT01	Risk	Moderate	Moderate	Unclear data conversion plans and	The Content Management Conversion and Migration (version 1.2 pending	2019.11.IT01.R1		•Explain how data conversion tools perform validation and	Open	12/20/19: The Content Management data conversion plan v1.3 was		
					processes may reduce DLIR's ability to	DLIR approval) and Case Management Conversion and Migration (version		data conversion process.	reconciliation steps and share available reports and logs.		updated to include a sample report from the data conversion tool.		
					prepare for proper data conversion.	1.1 pending DLIR approval) describe the data conversion process and			•Explain the process for how the data conversion plans will be		DLIR still needs to understand what the report represents and what		
						roles and responsibilities between DataHouse and DLIR. DLIR is			updated for changes in system requirements.		steps the data conversion tool is performing to generate the report.		
						responsible for performing UAT on the data and ultimately signing off on the final reconciliation reports but has not yet formalized plans for these			Provide details on timing, number of data extractions and tests to be performed, and necessary remapping of data.		Accuity will evaluate data conversion plans as progress is made.		
						tasks. The data conversion plans do not provide sufficient details and	2019.11.IT01.R2	5 1 510 1	7 11 2	1	Accurty will evaluate data conversion plans as progress is made.		
						DLIR does not have insight to the DataHouse data conversion teams'	2019.11.1101.R2	Formalize DLIK data conversion test	Focus DUR tests to address identified data conversion risks and				
						activities, tools, reports, risks and issues, and testing. As such, DLIR is		pians.	•Estimate data conversion test resource needs and ensure adequate				
						unable to properly prepare for their part in the process and will not be			resources are identified, trained, and scheduled (refer to findings				
						able to adjust their data conversion test plans for maximum efficiency.			2019.09.PM02 and 2019.07.PM14).				
						Additionally, DLIR has not finalized plans for scanning current paper files	2019.11.IT01.R3	Formalize DLIR Case Management	Evaluate the impact on operations and project success of different	-			
						to ensure necessary data quality to support system use at go-live.	2019.11.1101.R3	data conversion scanning plans.	data conversion scanning approach options.				
								data conversion scanning plans.	Estimate scanning time requirements and begin to schedule or				
						The IV&V recommendations made at 2019.07.PM02.R3 and			acquire necessary resources (refer to findings 2019.09.PM02 and				
						2019.07.PM13.R2 regarding DataHouse including DLIR in project activities	:		2019.07.PM14).				
						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.							
Scope and	2019.10.PM01	Risk	High	High	The current RTM documentation and	Added complexity to requirements traceability is due to the current	2019.10.PM01.R1	Improve requirements traceability.		Open	11/22/19 and 12/20/19: The Case Management development team		
Requirements					tool may hinder traceability, which may	requirements management process. Requirements documentation was			development teams to ensure completeness.		began adding acceptance criteria for user stories. No other		
Management	1		1	1	impact the ability to ensure the overall	developed separate from the DataHouse contract requirements and more			Consider identifying high-level requirements that duplicate more		significant improvements for traceability were made.		
		1	1	1	eCMS solution fulfills all requirements and provides context and expectations	detailed requirements were developed by the Content Management and			detailed requirements to reduce redundancy in traceability to design and testing.		Assuits will analysts the RTM as improvements are at 1		
1	1		1	1	for design, development, and testing.	Case Management development teams to use for development. As a result, there is duplication of requirements in the RTM which will likely			esign and testing. Trace requirements to the project objectives success metrics (refer		Accuity will evaluate the RTM as improvements are made.		
		1	1	1	or design, development, and testing.	impede traceability to requirements in the KTM which will likely			 Frace requirements to the project objectives success metrics (refer to finding 2019.07.PG05) to ensure each approved requirement 				
		1	1	1		DataHouse made incremental improvements to the RTM. The			to finding 2019.07.PG05) to ensure each approved requirement adds business value.				
1	1		1	1	1	requirements documentation were traced to the use cases used by the			Add acceptance criteria to the RTM to ensure stakeholder				
		1	1	1		Content Management development team or user stories used by the Case			satisfaction.				
1	1		1	1	1	Management development team. DataHouse contract requirements were			Consider use of a requirements management tool with greater				
						also added to the RTM but have not yet been traced to the requirements			functionality.				
						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.							
Quality	2019.10.IT01	Risk	Moderate	High	Lack of approved test plans may impact	According to the Project Management Plan (version 1.3), the DataHouse	2019.10.IT01.R1	Finalize the test plan.	Identify applicable test standards and requirements.	Open	11/22/19: DataHouse and DLIR test plans were not finalized as		
Management and					the execution and quality of test	test plan was scheduled for completion on September 3, 2019. Due to			*Delineate roles and responsibilities between DataHouse and DLIR		planned. DataHouse is performing some testing activities, however,		
Testing					activities and documentation.	the need to focus resources on the AWS setup and network connections,			(refer to finding 2019.07.PM02).		Accuity does not have insight into testing activities to provide an		
						DataHouse is now targeting to complete the test plan in November 2019.			•Estimate test resource needs and ensure adequate resources are		update or assessment of testing.		
						DLIR planned to complete the DLIR test plan in October 2019. Due to			identified, trained, and scheduled (refer to findings 2019.09.PM02				
						resource constraints and the need to work on other DLIR IT initiatives, the			and 2019.07.PM14).		12/20/19: The Case Management development team walked		
						DLIR test plan expected completion date was revised to November 2019					through the tool that will be used and the steps to perform and		
						and the plan may be combined with the DataHouse test plan.					document preliminary UAT for each user story at the end of each		
											development Epic. The DataHouse and DLIR test plans are still pending.		
						As DataHouse test activities are scheduled to begin in November 2019, DLIR needs to understand DataHouse's test strategy and test needs. DLIR					pending.		
						also needs to establish their own test strategy and test needs. DER					Accuity will evaluate the test plans when they are finalized.		
						asso needs to establish their own test strategy as well as identify, train, and schedule DLIR test resources.					Accurty will evaluate the test plans when they are malized.		
	2019.10.IT02	0.1				DLIR currently does not have formal security policies to determine security	0040 40 1700 04		William Trans. In Calle Land and Calle Land		MARGON DURANT NA CORON LETTO AND		
Security	2019.10.1102	Risk	High	High	Lack of formalized security policies and		2019.10.1102.R1	Formalize security policies.	Work with ETS to align DLIR policies with State policies and/or a standard security framework.	Open	11/22/19: DLIR began working with EDPSO and ETS to identify		
					procedures may impact the security and privacy of the data and may lead to	in place to adequately protect eCMS Project data. The lack of policies			Consider prioritizing security policies that are most relevant for use		security requirements.		
1	1		1	1	project delays.	primarily impacts the completion of the AWS setup and the Content			of doud services and data protection (e.g., security logging and		12/20/19: Efforts are underway to identify minimum security		
1	I		1	1		Management solution component. Security requirements for the cloud	1	l	monitoring, MFA, remote access, encryption of data-at-rest and		requirements with a focus on AWS and implementing security		1
1	1		1	1	1	environment must be determined and controls implemented before the			data-in-transit)		controls to allow AWS to be ready for use.		
1	1		1	1	1	AWS environments can be used for planned data conversion and testing			1				
		1	1	1		activities. The determination of security requirements is critical as data	2019.10.IT02.R2	Formalize and implement security	•Clarify roles and responsibilities for security controls between DLIR	1	Accuity will evaluate the security policies, requirements, and		
		1	1	1		conversion activities are already delayed for the AWS setup and testing		procedures.	and ETS.		procedures as they are finalized.		
1	1		1	1	1	activities are to begin in November 2019. The development of formalized		ľ	•Identify specific resources to perform security procedures.		[
1	I		1	1	1	policies will also impact the application security management plan and	1	l	*Consider prioritizing security procedures that are necessary for the				
		1	1	1		design that DataHouse is responsible for (refer to finding 2019.07.IT07).			operation of the AWS environments.				
		1	1	1		Security policies and the resulting security requirements should be							
		1	1	1		determined immediately to prevent further delay of the project.							
Project	2019.09.PM01	Issue	Moderate	Moderate	The documented change management	The Project Management Plan (version 1.3) documents the change	2019.09.PM01.R1	Document changes in Change		Open	10/25/19: DataHouse began to summarize changes in the Change		
Organization and		1	1	1	process was not followed as prescribed.	management process that includes Change Requests, impact assessments		Requests, with an impact			Log. DataHouse is in the process of formalizing Change Requests for		
Management	1		1	1	1	and a Change Log. The change to AWS (refer to finding 2019.07.IT01 in		assessment, and the Change Log in	1		the project schedule and AWS. DLIR is also evaluating AWS Control		
		1	1	1		Appendix D) and the revision of the Content Management go-live date		accordance with the Project			Tower options which may result in a Change Request. DLIR also		
1	1		1	1	1	were approved by DLIR but not documented in Change Requests or a	2019.09.PM01.R2	Management Plan.	Constitution when the state of the second for the second state of	1	defined thresholds for changes that are reported to the eCMS		1
		1	1	1		Change Log. Additionally, the change management process does not	2019:09:PM01:R2	Refine the change management process for greater clarity and	 Consider setting thresholds or criteria for changes that go through different approval processes. 		Executive Steering Committee (refer to finding 2019.07.PG02) and		
1	1		1	1	1	have built in mechanisms to ensure that impacted documents are updated	1	effectiveness.	Define the different approval processes (e.g., project manager,		DataHouse initiated discussions on the requirements prioritization		
		1	1	1		for the change and changes are appropriately communicated to impacted		enecuveriess.	Define the different approval processes (e.g., project manager, product owners, change control board, steering committee).		and change process (refer to finding 2019.07.PM05).		
1	1		1	1	1	stakeholders.	1	l	Implement additional columns in the Change Log to ensure		11/22/10: E-t		1
1	1		1	1	1				updates are made to all impacted project plans, documents, or		11/22/19: Entries were added to the Change Log but the Change		
1	1		1	1	1		1	l	deliverables and changes are communicated to all impacted		Requests for the project schedule and AWS were still not drafted.		1
		1	1	1					stakeholders.		12/20/19: No updates to report.		
		1	1	1							1220 17. NO appares to report.		
1	1		1	1	1		1	l			Accuity will review the Change Requests as they are finalized and		1
		1	1	1							evaluate improvements to the Change Log.		
				1	1	I .			1				

ASSESSMENT	FINDING ID	TYPE	ORIGINAL SEVERITY	CURRENT	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Cost, Schedule and Resource Management	2019.09.PM02	Risk	Prelim	Moderate	Undefined resource management processes and procedures are project resources that are not optimally utilized. (Updated)	The sais originally reported in the September 2019 W&W Morthly Report as a prolimary corner but is upged and to a risk in this report. The Project Management Plan (version 1.3) includies a human resource management scient on that couldres his high-level foles and responsibilities of various team members but does not define a process for how resource will be managed. This will become more critical for DUB as the project seam up for more resource demanding activities including data conversion, testing, and spin treviews. Additionally, DUB report team resources are not fully dedicated to the project and still perform other jobulates. Developing processes and procedures to tack and quantify upcoming resource needs, identify available resources, procure or obtain commitments of resources, amage resources shedules, committed with suspensions, and train resources for assigned tasks will help to minimize project delays. DUR developed a rough estimate of hours to perform scanning and data entry of Case Management paper files but more precise estimates based ownered by polytic in enceded foreit and to finding 2019 (11 TIOT). Additionally, DUB needs to perform an analysis to determine how many resources can be acquired resources will be able to complete necessary data conversion activities by the targeted go-live. The IV&V recommendations made at 2019 07. PM14.R1 and 2019 07. PM14.R2 regarding evaluating resource needs and resource.	5 S 2019 09 PM02 R2	Develop procedures to estimate and refine DUR resource requirements. Develop processes to optimize utilization of DUR project resources	Detail necessary steps and information needed to estimate and retiner resources requirements. *Consell DataHouse for input on upcoming activaties that require DLIR resources and clarify expectations of resources. *Assign responsibility for and establish target due dates to develop resources estimates for major project activities (e.g., data convention), testing). *Consider weshing with manages of project resources to reassign samn members' other job duties. *Consider weshing with manages of project resources commitments to the project. *Ensure team members understand their responsibilities (e.g., testing, sprint user stop contact, project communications, OCM) and assignments. *Ensure team members understand their responsibilities (e.g., testing, sprint user stop contact, project communications, OCM) and assignments. *Ensure team members are properly trained and prepared to perform their assignments. *Expure team members are properly trained and prepared to perform their assignments. *Expure team members are properly trained and prepared to perform their assignments.		10/25/19 and 11/22/19. Acculty will continue to monitor this preliminary concern as the testing, data conversion, and sprint reviews with stakeholders activities are underway. 12/20/19. This was changed to a risk in the December 2019 IV&V Monthly Report. Refer to pg 10 in the Findings and Recommendations by Assessment Area section.		
System Software, Hardware and Integrations	2019 09 (1101	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.	recommendators to further improve data convention plans and activities. Many members of the DataPolause team have contributed to the following successes: - Secured a replacement Content Management hosting infrastructure solution. This included presenting the replacement solution, facilitating empores from and meeting with AVIS, anxieting the Clinic of Enterprise Technology Services (ETS) security questions, and updating empores from an electronic plans of the Content Management development team's febroils in the Content Management development team's febroils or the Content of the Content Management development team's febroils or the Content of the Content Management development team's febroils or the Content of the Content Management development team's febroils or the Content of the Content Management development team's febroils or the Content of the Content Management development team's febroils or the Content of the Content Management development team's febroils or the Content of the Content Management development team's febroils or the Content of the Content Management development team's febroils or the Content of the Content Management development or the Content of the Content of the Content of the Content of the Content		N/A for positive findings.	N/A for positive findings.	Closed	N/A	10/25/2019	Closed as this is a positive finding.
System Software, Hardware and Integrations	2019.09.IT02	Prelim	N/A	N/A	Unclear M&O roles and responsibilities.	The MBO roles and responsibilities should be clarified and associated support processes should be established prior tog-live of the Content Management and Case Management solutions. Currently, the roles and responsibilities with In DIR Electron Clarb Processing Systems Office (EDPSO) team and any shared responsibilities with ETS and DataHouse are unclear. This will become more critical for DIR as the project approaches the gol-live dates. M8O resource requirements need to be quantified and resources sether identified within the existing DIR EDPSO team or additional resources sequend. This should be done with sufficient mere for training and knowledge tratefer so that MBO resources are in place at go-live. The Project Management Plan (version 1.5) also because the place of the Content Management Plan (version 1.5) and the complete of the Content Management Plan (version 1.5) and the place of the Content Management Plan (version 1.5) and the place of the Content Management Plan (version 1.5) associated as the Content of the Content Management Plan (version 1.5). The Project Management Plan (version 1.5) associated as the Plan (version 1.5) associated as the Plan (version 1.5) associated as the Plan (version 1.5). The Project Management Plan (version 1.5) associated as the Plan (version 1.5) associated as the Plan (version 1.5). The Project Management Plan (version 1.5) associated as the Plan (version 1.5) associated as the Plan (version 1.5). The Project Management Plan (version 1.5) associated as the Plan (version 1.5) associated as the Plan (version 1.5). The Project Management Plan (version 1.5) associated as the Plan (version 1.5) associated as the Plan (version 1.5). The Project Management Plan (version 1.5) associated as the Plan (version 1.5) associated as the Plan (version 1.5) associated as the Plan (version 1.5) as the Plan (version 1.5) associated as the Plan (version 1.5) associated as the Plan (version 1.5) as the Plan (ver		N/A for prelim findings.	N/A for prelim findings.	Open	10/25/19, 11/22/19, and 12/20/19. Acculty will continue to monitor this preliminary concern as the plan for M&O is developed.		

ASSESSMENT	EU-10-11-0-10		ORIGINAL	CURRENT	EN INVESTIGATION OF THE PROPERTY OF THE PROPER		BEGG141511017101110	BECCH WELLS WOLL		FINDING		0.0000.0180	al adular ar i adu
CATEGORY Data Conversion	2019.09.IT03	Prelim	SEVERITY N/A	SEVERTY N/A	Unsupported IBM Lotus Notes Domino Clase Management.	The current case management system, ISH Loux Nates Dominio, is no order. The current case management system, ISH Loux Nates Dominio, is no order. The production are oble 1988 to YeLT Derhodogies, and Order of Derhodogies, and the Care of Derhodogies of the Care of Derhodogies of the Care of Derhodogies of	RECOMMENDATION ID	RECOUNTERPATION. N/A for prelim findings.	Start A reconstant A recons	Open	1023/14/1025/3	CLOSED DATE	CIONURE RIANON
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 faining 2019.07.PG(20) and other project deficiencies noted throughout this report. However, as important as good sponsoribility, it shis factor alone can not be relied upon to guarantee project success.	N/A	N/A for positive findings.	N/A for positive findings.	Closed	N/A	9/20/2019	Closed as this is a positive finding.
Governance Effectiveness	2019.07.PG02	Risk	Moderate	N/A	The lack of a formal executive steering committee and change control board may limit the effectiveness of project governance.	The DataHouse proposal and Project Management Plan (vention 1.2) make references to a terring committee, however, a formal committee was not characted. 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 presentation of sey stableholders 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.		09/20/19: Accuje decreased the seventry rating from Level 2 (Moderate) to Leval 2 (Jow.) The CNSE Security Seriesing Committee (ESC) was assembled and held its first meeting on September 13, 2019. Members were informed of the committee's purpose, roles, and member tasks, however, the types and thresholds of decisions that need committee approval or attention was not formalized. The next meeting is scheduled for October 11, 2019. 10/25/19: The October 11, 2019 ESC meeting was effectively run by the DCD Project Sponsor to discuss key risks and issues and to align et coMSt Project direction with DIM and ETS strategic objectives. The thresholds for decisions that require committee attention were also established.		Closed as the eCMS ESC was formalized.
Governance Effectiveness	2019.07.PG03	Risk	Moderate	N/A	The unclear DataHouse contract terms may limit objective evaluation of contractor performance and contract fulfillment.	The procurement of the System Integrator (SI) for the sCMS Project was performed by DLI EPPO and melvewby DFT. The REF Indead DataHouse contract does not clearly outline expected deliverables, and care indead on the contract of the contract of the second of the contract	2019-07-PG03-R1	Evaluate the need for a contract modification to clarify contract terms.	Consider including key project documents as deliverables uch as requirements management plan and requirements traceability matrix (RTM) (refer to finding 2019 07, Pkt10), risk and issue log forefer to finding 2019 07, Pkt00, and testing documentation. *Consider including acceptance criteria based on industry standards. For exemple, the acceptance interia could be compliance with institute of Electrical and Electronic Engineers (IEEE) 27148-2018 for a requirements traceability matrix or compliance with IEEE 829 for test documentation. *Consider including measurable success emicrics (sefer to finding 2019 07, PKD0). *Consider the med to outline roles and responsibilities between OUR and DasaHouse (refer to finding 2019.07, PM02).	Closed	09/20179: DUR has decided to address this finding through updates of project plans. DataFalouse has harbon an openess to develop and continuously improve project deliverables including project plans. Roles and responsibilities have been more openyl discussed and plan to be incorporated within project plans. Furthermore, success and quality metrics are being daffed which will also be an additional method for evaluating contractor performance and fulfillment.		Closed as DLR will address through project plan updates. The need for clarification of local and reporabilities as well as acceptance orities and success mertics will continue to be monitored under the 2019 07.PGOB Sciences Meeting, 2019 07.PMO2 Project Organization, 2019 07.PMO2 Project Organization, 2019 07.PMO2 Sciences Meeting, 2019 07.PMO2 Project Organization, 2019 07.PMO2 Sciences Meeting, 2019 07.PMO2 Project Organization, 2019 07.PMO2 Pr
Governance Effectiveness		Risk	Low	N/A	shared project assets may reduce project performance and efficiency.	large IT projects are not a regular occurrence for many State departments. Often times project resources are assigned from within the departments that have valuable organizational and operational knowledge but do not have the necessary project management experience. Having guidelines and checklists and access to project document from part State projects would greatly benefit even experienced project taxens. ETS, as the State of Havanis IT oversight office, is in the best position to gather project assets and put forth guidelines.		discuss DUR IT and project support needs and responsibilities.	Sizes what project assess DLIP can provide to contribute to the development of a centralized project management liber, "Consider involving the project steering committee to align and clarify ETS vs. steering committee governing roles."		092019: ETS began sharing best practices and lessons learned with DLIR including sking the DLIR Project Manager to sprint meetings for another State project. ETS is a member of the newly formed cSMS Executive Steering Committee (ESQ) and will use that whole to share lessons learned with DLIR. Additionally, DLIR is forming a DLIR IT Steering Committee to provide oversight to all DLIR IT projects. The DCD Executive Sponsor is a member of that DLIR committee and plans to share eCMS lessons learned and project templates with other DLIR Droyects.	9/20/2019	Closed as discussions occurred with ETS and the risk is adequately mitigated with the planned course of action.
Benefits Realization	n 2019.07.PG05	Risk	High	Moderate		The eCMS Project does not have a project charter that would have helped formfalle the project. Based on informal reneflies, and success metrics at the start of the project. Based on informal recommendations made by Team Accusity during the install NVB on-site review, DLIB 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 desired level of improvement or benefits that justify the project financial investment. Goals and success metrics that justify the project 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.		Formalize measurable goals and success metrics in a project charter. Collect baseline and project performance data. Use performance data to monitor o evaluate project or contractor performance.	Consider financial, nordinancial, tangille, and intangible metric such as operational Key Performance Indication (KPIs), customer or employee satisfaction, user adoption, return on investment, or cycle or processing interes. Consider project management, organizational changes wall as alignment to DLR goals. Consider methods for collecting data such as surveys, queries, observation, open forums, or actual performance testing. Consider surches of data such as legacy systems, operations, and internal and external stakeholders.	1.	09/20/19: Accity decreased the seventry rating from Level 1 (High) to Level 2 (Moderatet). The DCD Business Manager has been assigned the task of developing and monitoring cMS Project success metrics with the support and oversight of the DCD Executive Sponsor. The DCD Business Manager drafted some preliminary metrics for consideration that will continue to be refined and finalized. 10/25/19: DIR continued to refine the success metrics and began to identify data sources for baseline metrics. Success metrics are expected to be finalized and communicated to stakeholders in November 20/19: 11/22/19 and 12/20/19. DILR is close to finalizing and plans to post to the new DLR website. Accutivy will evaluate the success metrics as they are finalized.	,	

ACCECCMENT			ORIGINAL	CHODENT						EINDING			
CATEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Benefits Realization	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 poress. The new system is being designed to allow for electronic filling, routing, and tracking of forms. Netweever, current disability compensation statuss have not been revised to require that these forms are filled electronically by law. As such, manu- paper forms may continue to be submitted by estemal users such as daimants, employers, and insurance companies. As the development of a portal for public filling will not begin until Phase 3, this risk is not as immirrent. However, as the evaluation of potential impacts, collection of feedback from stakeholders, and the legislative process to amend statutes as long process, the mistal planning should begin as early a possible so as not to postpone or reduce the realization of the benefits from the new system.	3	Develop a plan and timeline to amend the statuse to align to project and organizational objectives.		Closed	Closed	9/20/2019	Closed as DUR has a plan to align statutes with eCMS Project objectives.
Organization and Management	2019.07.PM01	Positive	N/A	N/A	project lead who works collaboratively with internal stakeholders.	The DLB Project Manager is hardworking and has continually demonstrated declaration to the protect and an eagenress to learn. Additionally, the DLB 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 stakeholists. This has mitigated some of the communication and COM risks (refer to findings 2019 07 PM07 and 219 107 PM07 and 219 107 PM07 inches the COM Project Manager is the only full-time. DLR employee assigned to the CMS Project and there is not a sufficient amount of project resources (refer to finding 2019 07 PM14) to properly manage the 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		9/20/2019	Closed as this is a positive finding.
Project Organization and Management	2019.07.PM02	Risk	High	High	The current project management organization may hinder project performance.	The cOMS Project has failed to achieve team genergy between DUR and DataHouse project team members and appear to work as appear to work as appeared to the control of the control of the control transparency of the control trans	2019.07. PM02.R1 2019.07. PM02.R2 2019.07. PM02.R2	Clarify roles and responsibilities between DUR and DataHouse. The DataHouse Project Manager should work onsite at DUR through project completion to improve DUR and DataHouse project team cohesion. Include DUR in project activities and communications to increase DUR and DataHouse project team cohesion.	-Conded revising project management plans to identify the person reoporable and list specific repossibilities for each project management areaConsider the need to include an outline of DLIR and DataHouse roles and responsibilities in a contract modification (refer to finding 2019 07 PG8).		09/20/179. Acculy decreased the seventry rating from Level 1 Biglipt Loval 2 IMCoderate). Although Databouse does not plan to work onsite at DUR, they began to include DUR in sprint planning, neiver, and retrospective meetings. This has given DUR more insight into project status and roles and responsibilities. The DUR Project Manager and DCD Executive Sponsor feel that there is might into project cohesion and that the DataHouse Project Manager's communication is effective via phone, email, text, 6c of Meetings, and in-peason meetings. As noted above at finding 2011/20 PR002, and in-peason meetings. As noted above at finding 2011/20 PR002, unders. The Cate Management Conversion and Migration Plan feers on 1.0 did delineate some responsibilities between the DataHouse Conversion and Migration Team and DUR. 10/23/19: Progress was made to darify roles and responsibilities in the areas of security and network connections, however, further clarification is still necessary particularly in the areas of testing and M8CO. 11/22/19: Roles and responsibilities for Content Management data conversion, enter particularly in the areas of testing and M8CO. 11/22/19: Roles and responsibilities for Content Management data conversion, enterpoints, and testing activities in order to be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be able to adequately prepare for DUR's part in the process or be ab		
Project Organization and Management	2019.07.PM03	Issue	Moderate	Moderate	The current deliverable review and acceptance process has contributed to acceptance of deliverables that do acceptance of deliverables that do not meet industry standards.	DataHouse prepairs project deliverables and submits to DUR for review. As DUR has had limited involvement in project activities or in As DUR has had limited involvement in project activities or in the As DUR has had limited involvement in project and the size of the country of the project of the country of the project of the country o	2019.07.PM03.R2 2019.07.PM03.R3	Establish deliverable acceptance criteria. Hold joint DUR and DataHouse deliverable review meetings to walk through deliverable review meetings to walk through deliverables. Implement forms deliverable review and approval processes.	Consider including acceptance criteria in the quality management plan field to finding 2019/07/1105), in a contract amendment (refer lossing 2019/07/1705), or in Deliverable Expectation Documents DEDI. Hindude both the exope validation process for acceptance and the quality control process for correctness (refer to finding 2019/07/1105). Hindude an evaluation of deliverable against acceptance criteria and requirements documentation. **DIB should understand how each deliverable impacts the project schedule, roles and ultimately the quality of the technical solution and success of the project.	Open	99:2019. Acculy has kept the evently rating as Level 2 [Moderate]. Although Acculy observed Datafours and DLM meetings to review the control of the control		

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CATEGORY		TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE		CLOSURE REASON
	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 DasHouse BAFO proposed a technical solution that planned to be leverage DMS's BMF belte enteriorment, however, there was no written agreement between DataHouse and DMS that supported DMS intent to support shared services. Once the eCMS Project was underway, the MOU discussions with DMS were primarily led by the DasHouse Principled (Sportex). The eCMS Project advanced for 10 morths without finalizing the MOU between DMS and DMR. As the proposed solution in 10 ologen viable due to the recent DMS development, an alternative solution must be determined lefter to finding 2019 QMS. (DMS) accepted or driafted deliverables may need to be updated. Although the eCMS Project will not be able to uslight DMS is MF Flester environment, the project will be to be leverage DMS is enterprise (crosses for FlesNet and project, DMS and officialized all necessary agreements to ensure that the alternative solution is viable and prevent further delays.	2019.07.PM04.R1 2019.07.PM04.R2 2019.07.PM04.R3	Findlize the MOU to Jewenge DHS's enterprise licenses for FileNet and Datacap. DIR 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	Closed	9/20/2019	Closed as the MOU with DHS is in process to be finalized and DUR is leading contractor negotiations. The recommendation to identify all critical tasks will continue to be monitored under the 2017 07.PMI3 Schedule Management finding.
Project Organization and Management	2019.07.PM05	Risk	Moderate	N/A	A lack of darity on Datai-louse'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 "Winer-Court-Pail". 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 spirist while building the software. Based on the current project plan, the eCMS Project was supposed to begin the Build stage of Phase I and Transtion to the Scum methodology. Although the recent DHS development will likely delay the lécolif of this stage, there are a number of concents regarding the transition to the Scum methodology. **Parathouse 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 participats. **There have not been communications with the DLIR project team and stakeholden regarding the Scrum methodology or the roles and responsibilities they have during this stage of the project. **Hadny of the DataHouse project team members work remotely and are unable to work no reite.	2019-07-PM0S-R1	Formalize an approach for executing Scrum phases. Communicate the approach for executing Scrum phases to all team members and impacted stakeholders.	Condider industry best practices for Agile methodologies such as retrospectives, dish standarps, burdown chart, and frequent use demonstrations and feesback. Establish the backlog preparation and refinement process. Establish witual conferencing tools and communication protocols for geographically distributed team members. "Set the number and length of the sprints. "Set the number and length of the sprint activities and assign resources (refer to finding 2019 07. PM10.) Hinchical clear and destilead procedures and roles and responsibilities for Scrum tasks (refer to finding 2019 07. PM02). DUIL should be individed in project team activities (refer to finding 2019-07. PM02).		09/20/19: Acculy has kept the seventy rating as Lwel 2 (Modartat). Although Datafous has incorporated the Case Management spirit schedule into the overall project schedule and provided a high-level overeive of the requirements/use robits to be covered by each spirit, roles and responsibilities still need to be clearly defined and classic Scrum model and plans to clarify roles and responsibilities and 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 term 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.		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.
Communication Management	2019.07.PM06	Issue	High	Moderate	DataHouse's ineffective and untimely communications with the DIR Project Team contributed to DLIF's incomplete understanding of the technical solution, potential risks, and upcoming project activities.	Communication activities listed in the Project Management Plan (version III did not occur as planned as the weekly project stata meetings did not begin until April 2019 and the first progress report was not completed in February 2019. Despite the commonement of regular project communications, misunderstandings and miscommunications between the DataHouse and DIR Project teams continued to occur. DIR project teams continued to occur. DIR project team continued to occur forming 2019 07.PMO9. Additionally, information regarding spooming project activities was not provided timely. For example, DataBathous did not timely communicate to DIR what to expect for the design stage sessions (e.g., what would be covered each day, which and usern needed to participate). There has also been a lack of communications regarding the upcoming build stage activities (see for Indings 2019 07.PMOS). The NAN recommendations made at 2019 07.PMOS. 22 and 1910 07.PMOS are graded posterious weeking on other and including OLIR in project activities will also address this finding. Below are additional recommendations to further improve project team communications.		Implement daily touch point meetings between DataHouse and DLIR Project Managers.		Open	09/20/19: Acculary decreased the seventry rating from Level 1 High/Citical to level 2 (Moderate). The DataHouse and DLIB Project Managers have faily fourth points through various methods inceptors meetings, Go To Meetings, email, phone, and text). Furthermore, as noted above at finding 2019.07 PM02, DLIR has been included in more DataHouse meetings including sprint planning, reviews, and retrospectives. 10/25/19: Some improvement of communications were made through DLIR's participation in more Case Management development team meetings and DataHouse's facilitation of DLIR convenients with ETS. Communications regarding upcoming project activities, milestones, and due dates need to be rewamped to for DLIR resources only and sorting by start dates! 11/22/19 and 12/20/19: Ne updates to report. Acculty will continue to evaluate the effectiveness of these project communication channels.		

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Communication Management	2019.07.PM07	Risk	Moderate	M oderate	The lack of failored project communications for all impacted stakeholders may reduce user adoption and stakeholder buy-in.	Communications management is a part of the Project Management Plan developed by Databous, however, the plan is not comprehensive and primarly reflects project meetings, status reporting, and issue reporting. The approved Project Management Plan Provision I.2 was updated to include a communication matrix that outlines additional communication activities. While this is an improvement over the previous events, the lastest dart plan still close not provide a dequate details regarding communication extribes as all stakeholden are grouped together for three broad communication methods and activities. A formal communication experiments analysis was not conducted to determine the information weeks of internal and setural project stakeholden. Their is not a process to resum the timely distribution of project information and there is not adjusted to resum the timely distribution of project information and there is not adjusted to resum the timely distribution of project information and there is not adjusted to the project distribution of project information and there is not approsed to resum the timely distribution of project information and there is not approach to resum the timely distribution of project information and there is not approach to resum the timely distribution of project information and there is not approach to execute the project of the project information and there is not approach to activities is somethy and the project of the project of the project information and the project in	2019 07 PM07.81	Further refine communication management plans.	-Segment stakeholden into groups by communication needs such as by department unit (e.g., Hearing, Enforcement, or Records and Claims, by position (e.g., manager, supervisor), or internal and external (e.g., claimants, insurance agencies). -Consider the flat of communication methods listed in DataHouse's BAFO. -Due to limited DUR resources available for communication activities she specific groups and communication activities should be prioritized to focus resources most efficiently. Vulgdate the project schedule for communication activities and assigned resources (refer to finding 2019.07.PM14).	Open	09/20179: Acculy decreased the sevenity rating from Level 2 Moderate to Loval 2 Bowl. DUR plans to hold two sessions on October 1, 2019 to update the DUR internal stakeholders (including nighbor island staff) on what has been happening for the last year on the eCMS Project including a brief dame by DataHouse of how the new system will work and look. DUR also plans to update the DUR website to include project information that is accessible by internal and external stakeholders. 10/23/19: DUR held two sessions for internal stakeholders to provide an update on the project progress and timeline. DUR worked on update on the project progress and timeline. DUR worked on update on the project progress and timeline. DUR worked on the project progress and timeline and the project progress and timeline. DUR worked on the project progress and timeline. DUR worked on the project progress and timeline and the project progress and timeline. DUR worked on the project progress and timeline and the project progress and timeline. During the project progress and timeline and the project progress and the project progression project progress and timeline. The project progress and the project progress and the project promision plans and		
Organizational Change Management	2019.07.PM08	Risk	Moderate	Low	Missing key OCM steps or activities may not identify pockets of resistance or adequately enable individual change.	There is no formal OCM plan or approach. DataHouse's BAFO lists various OCM activities but these were not formalized in a plan or processes. There are no OCM spanific tasks or resource assigned for OCM activities in the project schedule freefor to facing 2019.07 PMM14. Although there is no formal or coordinated OCM approach, some elements of OCM activities on formal or coordinated OCM approach, some elements of OCM activities activities. The DUR Project Manager's discusse and collisional activities approach with internal stakeholders (refer to finding 2019.07.PM01) and the DCD Executive Sponard's active and within lesspon of the project freefor to finding 2019.07.PM01 and approach in the CDC Secutive Sponard's active and within lesspon of the project freefor to finding 2019.07.PG01) also mitigates the lack of a formal approach. Although projects may progress without a formal OCM approach compliments project management approaches in consenior possibility of project success. Performing activities with an OCM focus will help to better prepare, equip, and support individual throughout the project and to ensure that the solution is ultimately adopted and embraced by employees.		Develop and implement a structured OCM approach.	Collect baseline change awareness and readiness measurements through surveys or interview. Cross and mobilities change collition group of managers, supervisors, and key influencers. Hocoproster and algn COM into communication, business process engineering IBPR, and training activities. Develop COM activities to address identified awareness gaps or pockets of resistance. Implement reinforcement mechanisms to support change and increase adoption.	Open	activities. 99/2019 A. Acculty decreased the seventry rating from Level 2. Moderato to Level 3 (Lev). A number of communication activities are planned to provide awareness of the supcoming project activities including the DUR internal stateholder meeting and DUR website discussed above at finding 2019.07.PM07. 10/25/19 C. Ommunication activities were severated or are in progress which help to partially address OCM. ETS has assigned an OCM resource to assist with the eCMS Project. 10/22/19 or All 2/20/19. CCM activities are not executed continually or consistently to keep stakeholders engaged. There is a lot of opportunity to leverage the eCMS DUR Core Team members to execute OCM activities. Acculty will continue to evaluate the OCM approach and monitor the change readiness of project stakeholders.		
Risk Management	2019.07.PM09	1ssue	High	Moderate	Risks and issues have not been clearly identified, traded, or reported region. If the clear is the clear is the clear is the control of the clear is the clear in the lack of understanding of potential impacts across project team members and there are no mitigation plans to adequately address them.	Only three risks and two issues have been identified by DataHouse on the project to date with no history of any risks being closed. DLIR project		Formalize the Risk and Issue Management process. Conduct regular meetings to discu project risks and issues.	A formalized process should clearly define responsibilities and tages in identification, resolution and action items tracking, and escalation procedures. "The project term must encourage open, transparent discussion about risks and issues. sel-lectuled Detaificase and DUR and, on occasion, the executive steering committee (refer to inding) 2019 07 PG02). *Perform a detailed review of new items, status of open items, risk/issue cowners, and mitigation plans.	Open	59/20179. Acoulty decreased the severity rating from Level 1 felipforcing all on event 2 felipforcing and severity 2 felipforcing and severity 2019 and has begun to use mind mapping and a log to identify and document risk. Issika and issues have included on the agenda for weekly project status and monthly Security Security Committee (SSI) residently as the risk management process needs to be further refined to combine the DataHouse and DIR log sint one sexure, assign risk owners, and develop mitigation or remediation plans for each risk or issue. 102/51/9. Risks were discussed at the weekly status meetings and northly ESC meetings. The OLIB Project Manager and DUIR Risk Manager also meet weekly to review and discuss the risk log. The risk management process improvements noted as of 9/20/19 are still open.		

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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 class Afficient 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.		Revise Content Management and Case management requirements documentation and RTM.	Ensure requirements follow SMART (specific, measurable, actionable, realistic and time bound! guidelines. 4Ensure requirements documentation include all requirements listed in the DataHouse contract, all requirements identified during the takeholder assession, and for all three phases of the eCMS Project. 6Ensure requirements include functional, performance, process, non functional, security, and interface requirements.	Open	19/20/19: Acruity decreased the severity rating from Level 1 (High/Critical) to sevel 2 (Moderata). The RTM has been updated to include more detailed and specific requirements and user stories from the Case Management and Content Management development transm. DataHouse is in the process of enhancing their RTM to crosswalls and merge all requirements into one master document including all contract requirements. With the staggered development of the Content Management and Case Management solutions and the treative nature of Sorum methodology, additional		
						Requirements management is a part of the Project Management Plan developed by Dathouse, 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 darkt plan still does not improvement over the previous version, the latest darkt plan still does not provide adequate technism regarding the requirements principation process, the tracesability structure, and how requirements will be reported and requirements of the requ		Improve requirements managemen processes.	Finsure that there is a clear understanding between DataHouse and DLIR regarding who is responsible for identifying and tracking different types of requirements. Powelpo a process for prioritizing and reporting requirements. Powelpo a process for tracing requirements to specific system design elements.		requirements will continue to be identified throughout Case Imagement development which could have implications to Content Imagement. As noted above at finding 2019 07 PM05, the process are propriously and prioritizing requirements still needs to be set, ormalizing the process for managing requirements remains key. 025/19: DataHouse provided training to the DUR Product Owners at included how requirements are managed in the development crinits (refer to 2019 07 PM05) and darlified responsibility for security requirements (see to 2019 07 IPM05) and darlified responsibility for security requirements (see to 2019 07 IPM05) and darlified responsibility for security requirements (see to 2019 07 IPM05) when the context requirements were dided to the KTMI, however, those requirements were not traced to empleteness for requirements where the requirements were the security of the development trains for empleteness finded through user stories during each sprint. No other significant places regarding contract, integration, or security requirements to port. Cucilly will continue to evaluate the requirements documentation of processes.		
Reengineering		Risk	Moderate	Moderate	Not identifying and addressing BPR opportunities prior to system design and development may require additional effort to cornect.	with stateholders, and make updates to the processer maps. As a result of this process, Deathsuse provided further state process maps. However, Team Acculty was unable to clearly understand how processes were prioritized for change, not 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 Datat-louse's contract. The Datat-louse contract states that the key deliverable will be manifested through: faster throughput of data into the system, faster prespose times to requests by users, less enrollers responsed and input by internal and external users. However, the RFP and contract and reputs by internal and external users. However, the RFP and contract and reputs by internal and external users. However, the RFP and contract or a comprete by DLIR (refer to finding 2019 07-PGOS). There should be dear documentation on how the new solution plans on measuring and achieving key business process improvement performance goals. The IWAY recommendations made at 2019 07-PGOS R2 and 2019 07-PGOS R3. Tregarding clear and measurable goals and successmentics will also address this finding. Belovi s an additional recommendation to thrife improve PBR activities.		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: Accuty has kept the severity rating as Level 2 [Moderate) as a process or tool for tracking BR4 Anages for future communications and training has not been created. 10/25/19 and 11/22/19: BPR opportunities continue to be discussed during spirit seasons, however, identified opportunities are not formally tracked. 12/20/19: The Case Management user story tracker tool identifies which user stories resulted in BPR.		Closed as user stories resulting in significant BPR can be identified for communications and training.
Cost, Schedule and Resource Management	2019.07.PM12	Nisk	High	High	Informal cost management practices ma lead to unexpected costs or overpayments of contracts.	Where is no formal cost management plan. A comprehensive total prozet budget is not readed, tracked, or reported. Currently, payments are tracked for the two main eCMS Project contracts. Databouse S Icontract and the Team Accept I/V8V contract. Other costs for licenses and equipment are tracked informally as these are often paid from DCD's regular or excess fands. With the recent DFS development, costs of all required hardware and software for the alternative solution as well as long management of the solution of the solution of the solution as well as long management of the solution	2019.07.PM12.R2 2019.07.PM12.R3	Prepare a comprehensive project budget and a schedule of long-sem operational costs (e.g., licenses, subscriptions, maintenance, cloud services). Prepare regular cost reports for management and the executive steering committee. Clarify DataHouse payment stems and adjust payment schedules for schedule delays.		Open	09/20/19. Acculty has kept the severity rating as Level 1 (High) as a comprehensive project budget and ongsterm cost schedule have not been created yet. Additionally, regular cost variance reports are not prepared or presented. 10/25/19. Progress has been made to gather cost information and set up budget tracking templates. 11/22/19 and 12/20/19: No updates to report. Acculty will continue to monitor project costs including new AWS costs (from finding 2019-07.1TO1) and cost management practices.		

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CATEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Cost, Schedule an Resource Management	d 2019.07.PM13	Risk	High	High	Inadequate schedule management practices may lead to project clelays, missed project activities, unrealistic schedule forecasts, or unidentified causes for delays.	The Phase 1 go-live dates were delayed a few times since the start of the project with the Content Management go-live dalayed few months and the Case Management go-live delayed three months. Reasons for the delay provided by the SCMS Project team included additional time for requirements gathering, some Phase 2 work that was moved up to Phase 1, staff vacations during the holidays, time for the DEIT Project Manager I, staff vacations, which was the project p	2019.07.PM13.R1	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.		Open	109/20119. Accuity has kept the severity rating as Level 1 (High). Although Dathouse updated the project schedule to include additional tasks for Phases 1, 2, and 3 and identify specific resources assigned for select tasks, there are still a number of deficiencies noted. The project schedule is not fully resource loaded, is not integrated with subcontractor's detailed schedules, does not include IDLB project tasks, estimated hours, or adequately detailed tasks for Phases 2 and 3, and does not retain baseline dates for variance panalesis. As a requir, Accurity is unable to assess the over-allocation or		
						impacts of the delays have not been thoroughly performed, documented, impacts of the delays have not been thoroughly performed, documented, or reported. Decisions or change requests to revise the project schedule are not properly documented or approved in accordance with the Project Management Plan. DataHouse has prepared a higher-level project schedule and a more	2019.07.PM13.R3	Prepare regular schedule reports and schedule variance analyses for management and the executive steering committee.			selections are deserved from the critical paths, or determine if time estimates o project progress percentages are reasonable. Additionally, regular schedule variance reports are not prepared or presented. 10/25/19: The project schedule was updated with time percentages for some of the tasks, however, the Content Management go-live	r	
						detailed task listing. Although the project schedule will need to be updated due to the recent DIS4 development and selection of an alternative solution, the following deficiencies were noted in the current project schedule: * Does not include all project tasks such as Build stage sprints, communication, DCM, BPR, and quality assurance (refer to findings 2019.07.PMG, 2019.07.PMG), 2019.07.PMI, and 2019.07.TMG). **Does not include estimated durations. Durations are only included in					date is in jeopardy again. The schedule should be updated to include links for prederessor and successor dependencies related to a security management plan fefer to finding 2019 (2) (1707). Any DUR tasks that are necessary for Datahlouse tasks should be included in the project schedule and regularly communicated to DUR (refer to finding 2019 (7) PMOR). The other schedule management issues orded as of (2021) continue to limit the project ability to improve project performance and increase adherence to revised timelines.	3	
						the more detailed task listing. * Only includes tasks for Phase 1. The Phase 2 and 3 tasks are only included in the more detailed task listing. * Specific assigned resources are not identified as only a generic DataHouse or DCD designation is used.					11/22/19 and 12/20/19: No updates to report. The Content Management go-live date has not yet been adjusted. Accuity will continue to monitor the project schedule and schedule management oractices.		
Cost, Schedule and Resource Management	d 2019.07.PM14	Risk	Moderate	High	Inadequate assigned project resources may lead to project delays, reduced project performance, or turnover of project resources.	Team Accuity was unable to evaluate resource workloads based on the project schedule information (refer to finding 2019.07.PM13), however, based on observations of the eCMS Project team, the DataHouse and DUR Project Managers appear to be over-tasked. The DUR Project Manager is the only full-time DUR employee assigned to the eCMS Project and understandably does not have time to perform all of the tasks	2019.07.PM14.R1	Reevaluate project resource needs and acquire additional resources.	Perform project schedule updates for the alternative solution (refer to finding 2019.07.1701) and missing tasks (refer to finding 2019.07.PM13). *Ensure resource levels and skill sets align to assigned tasks.	Open	09/20/19: Accuity has kept the severity rating as Level 2 (Moderate) Although two of the eCNS DLR project team members have been assigned additional responsibilities to lighten the load of the DLR Project Manager, inadequate resources and the timing of upcoming and critical project activities continue to be a concern.		
						to properly manage the project or represent DLR during project activities. DLR should increase participation in design and development activities (refer to finding 2019 0.7 PM02) 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 Reeds, Articipated Changeal section. However, Team Acculty noting that the Staffing and Staffing that the Staffing and Staffing a	2019.07.PM14.R2	management and the executive steering committee.	*Consider including resource needs for unassigned tasks or roles. *Consider including Dulf insources needed and estimated hours for upcoming project activities (e.g., design seasions, user demonstrations, or user testing).		10/25/19. Resource constraints continue to be a challenge. Focus of DathHouse resources on AWS setup and network (logistics delayed completion of the test plans and progress on the configuration management plan. DUR resources were partially assigned to work on other DURIT initiatives which delayed completion of test plans and limited progress on addressing prior IV&V findings. 11/22/19. Accuty increased the sevenity rating from Lovel 2 (Moderate) to Level 1 (High) as resource constraints continue to limit improvements made and the pace of the project activities is picking up putting address and demands on the project activities is picking up putting address and demands on the project testivities. 12/20/19: No updates to report. See finding 2019.09.PMO2. Accuty will continue to assess the adequacy of project resources.		
System Software, Hardware and Integrations	2019.07.1T01	Issue	High	N/A	The original solution proposed by DataHouse in their BAFO to leverage the existing DHS 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 theregate the existing DHS fileNet environment. Under the original solution, DHS would monitor and maintain the enterprise IBM FileNet environment. AD GHS will no longer be providing access to their IBM FileNet environment, DLR will need to identify resources to take on the monitoring and maintannace of the IBM FileNet infrastructure. As DataHouse recommended in the BAFO the on-premise installation for the IBM ECH 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.	2019.07.IT01.R1	Evaluate other total solution alternatives for an 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-Binest-content-manager/competitory/alternatives. Additional research could result in more extensive choices going forward. *Herclude the implement of the alternative solution to project cost,	Closed	Closed	9/20/2019	Closed as a replacement solution was approved by DLIR. As a comprehensive analysis was not prepared and there is still a need for additional clarification regarding certain aspects of the replacement solution, Acutiy will continue to monitor plans for AWS security under-finding 2019 07.1107, AWS M&C Orea and responsibilities under the new preliminary concern 2019.10.1102, and AWS costs under-finding 2019 07.PM12.
						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 DUR to reassess the total solution considering all updated technological opportunities available today. DIR should ensure that DataHouse performs sufficient analysis regarding possible alternative solution options DUR should also take the time to perform adequate due diligence before making any decisions. It is important that through analysis and adequate due diligence to perform adequate the project in order to avoid further project delays and to ensure that the delivered system will meet operational and stakeholder requirements.		analysis of the alternative solution.	schedule, resources, security, maintenance and operations, system cohvaves, hardware integration requirements, performance enquirements, 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 *Data center, collocation facilities and availability requirements *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 afficient solution, renewal and ongoing costs of FileNet enterprise licensing considerations for impact on project schedule, time afficient solution, installation, and configuration of software and infrastructure *Ongoing maintenance and operations (patching, updates) *Performance of security assessments *Change and configuration management				

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CATEGORY System Software, Hardware and Integrations	EINDING ID 2019.07.IT02	TYPE	SEVERITY High	SEVERITY Moderate	ENDING An unclear interface solution may impact the design process and require additional effort to correct.	The Content Management Design (version 1.0) document was approved by DUR on May 6, 2019. Case Management is currently in the design by DUR on May 6, 2019. Case Management is currently in the design obsea and design documents have not been provided. Although the Content Management design document was completed and Case Management design in progress, the sear interface solition has not been defined. The interfaces between Content and Case Management are integral to the success of the project and should be fully federed in design documents in accordance with industry standards. Due to the recent DRS development, the interface options will need to also be researched and analyzed depending on the elternative solution selected. However, even prior to this development, DUR did not have a disar understanding of the interface solution as well as the complete exchanged solution as well as the complete exchanged solution as well as the complete exchanged solution.		Document the interface solution and analysis. Update the project schedule to define resources assigned to sech or define resources assigned to sech or the interface-elebet activities.	DEPERMENTAL RECOMMENDATION Documentation whould provide a dear undestanding on the interface solution including the following: 14 How Salesforce will lauge the selected Content Management solution in 14 How Flate for the Salesforce in 14 How Flate for the Salesforce in 14 How metadata is uploaded into Salesforce in 14 How metadata in 14 How metadata is uploaded into Salesforce in 14 How metadata is uploaded into Salesforce. 14 How metadata is uploaded into Salesforce in 14 How metadata is uploaded into Salesforce.		NONOSTATUS UPCATE ONZO/179. Acculty decreased the seventry rating from Level 1 (High) to Level 2 (Moderate). DataHouse included a narrative about the interface components in the Case Management Design Document. Furthermone, DataHouse organized two demos of 1) the Salesforce application using an interface/API on get to a web service, and 2) another web service using an irrame and IBM CNI to get to FileNet. 100251/P. DataHouse refined the interface design details in the Case Management Design Document (version 1.1). 11/22/19 and 12/20/19. DataHouse refined details in the integration specified in Cacilly does not have full insight into integration development activities and we are unable to provide a complete update or integration development progress.	CLOSED DATE	CLOSURE REASON
						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 DuR.	2019.07.IT02.R3	the interface-related activities. Verify the proposed interface solution will work.			Accuity will continue to evaluate the interface solution as additional details are finalized and development progress using the actual solution components is made.		
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 document have not been provided. The Content Management Design (sevison 1.0) approved by DLIR on May 6, 2019. The recent DMS development will require design documents to be updated after an alternative Content Management hosting infrastructure solution is selected. However, even more to this development, the Content Management design documents were drafted based on requirements documentation that is incomplete order to finding 2010 p.7 PMID. The requirements document deficiencies should be remediated immediately and the design documents updated accordingly.	2019.07.1T03.R1	Update the Content Management design documents.	Consider updates for revised requirements documents frefer to finding 2019.07 MIDIO and for the alternative Content Managemen hosting infrastructure solution (refer to finding 2019.07.ITD1).	Closed	09/20179: Acculy decreased the seventy rating from Level 1 9(gb). Level 2 (Moderate). DataHouse updated the Content Management Design Document to include additional, more detailed requirements. As noted above at finding 2018/07 PMID, DataHouse is in the process of updating the requirements documentation to include all requirements from the DataHouse contract. 10/2019: The Content Management Design Document (version 1.2) was updated to refine or add requirements.		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 2017.07.PM10 requirements finding.
Data Conversion	2019.07.IT04	Risk	Moderate	N/A	A Content Management data conversion plan that is based on incomplete, naccurate, and outdated requirements may impact the data migratton design process and require additional effort to correct.	Case Management is currently in the design phase and data convestion downers have not be drafted. The Content Management Conversion and Migration (version 0.0) document was drafted by DataHouse on June 13, 2019 but was not type approved by DBLR. The document was drafted based on requirements documentation that is incomplete freefer to finding 1901/07.PMLD ("Interhenone, the Content Management Conversion and Migration (version 0.0) document included a risk that changes to the requirements data care careful point in the project may cause additional effort to re-factor the miligration design process. As data conversion is the process of converting data from one source to sut the system requirements of another, it is important that the data conversion plan is based on accurate system requirements. The requirements of another of the data conversion plan updated accordingly.	2019.07.1704.81	Update the Content Management data conversion plan.	Consider updates for revised requirements documents (refer to finding 2019.07.PM10).	Closed	90/20/19: Accuty has kept the seventy rating as Level 2 (Moderate). The Content Management Conversion and Migration Plan Newton 1.1) was updated on 99/05/19 before the Content Management Design Decument (version 1.1) was updated on 99/15/19 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 Plans and Migration Plans and Migration Plans and the detailed 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 on agringing any imperation of the Content Management data conversion plan.
Quality Management and Testing	2019.07.1T05	Risk	Moderate	Moderate	Not having an approved quality management plan and assigned quality assurance reasonages may impact the quality of project deliverables.	The Quality Management Plan (version 0.1) was defined by DataHouse on June 2.3, 2019 but was not yet approved by DUR. The draft plan did not have 2.3, 2019 but was not yet approved by DUR. The draft plan did not project and does not describe how quality control resistantly occured resistant bed documented or reported. Additionally, the Quality Assurance lead identified in DataHouse's BAFO is not assigned to the project team at this time. As it is almost eleven months into the eCMS Project and several deliverables were already approved and many are pending approval, it is important for a quality management plan to be formalized and resources assigned to perform quality management activities.	2019.07.1T05.R1 2019.07.1T05.R2	Finalize the quality management plan. Perform quality management activities on previously approved or submitted deliverables.	**DataHouse and D.UR should collaborate and agree on the quality immediatement processes and metrics that will be some this project management processes and metrics that will be some this project and some things of the source of the processes of the source of the sour	Open	09/20/17. Accuity has kept the seventy rating as Level 2 (Moderset). The Datahlouse Project Manager communicated that Datahlouse's State Datahlouse Project Manager communicated that Datahlouse's Association of the Communicated that Datahlouse's Association of the Communicated C		

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CATEGORY	EINIDING ID	TVDE	CEVERITY	CURRENT	EINDING	ANALYCIC	RECOMMENDATION ID	RECOMMENDATION	SUBBLEMENTAL RECOMMENDATION	STATUS	EINDING STATUS LIDDATE		CLOSURE REASON
eAttester Configuration Management	2019.07.IT06	NYPE Risk	SAVERIN Moderate	Neverties Moderate	13-00-16 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.	NO. 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 CMSP involves was apposed to begin the Balld stage of Plans 1. Adhough the recent DHS development will liady deby the start of the Balld stage, not having a configuration will liady deby the start of the Balld stage, not having a configuration of the stage of Plans 1. Adhough the recent DHS development is staged to the stage of t		Develop a form a configuration management plan.	Strate Strategy of the Confidence of the Configuration of the Configuration Management in Systems and Software Engineering and includes the configuration management process, configuration destricts of the Configuration management process, configuration destricts of the Configuration of the Configuratio	r Open	100/25/19. Acculy place by the severity rating as Level 2 (Moderate). Although Acculy obtained a better understanding of configuration management through interviews of the Content Management and Case Management and Case Management development teams, Daishbous is still in the process of finalizing and documenting a configuration management approach. 10/25/19. No updates to report. 11/22/19. Datahlouse provided a summary of the configuration management approach for the Case Management development team in addition to the previously provided summary of the Content Management approach size of the Case Management development team in addition to the previously provided summary of the Content Management development team in addition to the previously provided summary of the Content Management development team is approach. The configuration management development team in addition that makes go, integrations, AWS/network) is still not clear. Additionally, a comprehensive Datahfouse team configuration items and required DIM pathouse team configuration items and required DIM papprovals due to a lack of a comprehensive configuration management plan.	CLOSED DATE	CLOSURE REASON
											Accuity will continue to evaluate the configuration management plan and approach.		
Security	2019.07.1107	Risk	Moderate	High	Not having an approved security management plan in place may impact the security and privacy of the data.	The Security Management Plan Iversion 0.0) was prepared by DataHouse on June 3, 2019 but was not yet approved by Diff. Based on the current project plan the 400K Project was supposed to begin the fault drage of Plass 1. Although the recent DIFS development will likely delay the sant of the Build sage, or na having a succeiving management plan in place may adequacy of the system to support the data needs of the system. Security controls should be defined in the security management plan and implemented as part of an organization-wide process that manages information security and privacy risk.		Ensure the security management plan meets specific standards. Finalize the security management plan.	Consider the industry standards and best practices above. *Data House and DLR should collaborate and agree upon the specific standards that will best serve this project.	Open	and approach. 90702019: Accuty has kept the severity rating as Level 2 (Moderate). The security management plan has not yet been finalized and also meeds to be updated to include AVS security plans (from finding 2019.07.101). DataHouse plans to complete the security management plan updates in Cebebe Security plans (from finding 2019.07.101). DataHouse plans to complete the security management plan updates in Cebebe 1 Highly due to the need for a plan or controls to be in place and the impact that a delay in implementing the plan or controls would have no project activities including data convension, training, and testing. DataHouse larlifed that the submitted Security Management Plan and, oversite the DataHouse acconvension, training, and testing. DataHouse clarified that the submitted Security Management Plan and opcore the DataHouse project team. DataHouse also clarified that they are only responsible for security Management Plan and that DUR is responsible for security. Security redictives the DataHouse sourity security Security Management Plan and that DUR is responsible for network security, security requirements, and exourity controls. DUR does not currently have formal security policies but plans to develop policies in early 2020. DUR also plans to work this TS to identify minimum security requirements to allow the eCMS Project to progress as the formal policies are developad. Necessary security controls should be described on and implemented price to data migration and task dependencies raiset to security should be identified in the project schedule (refer to finding 2019.07.PM13). DUR should also consider security controls of system data held by DataHouse. 11/22/19. DUR is first identifying security requirements and evaluate security demonster plans. Accuty will continue to evaluate the security management plans and policies as they are finallized.		

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







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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