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April 3, 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 <u>http://ets.hawaii.gov</u> (see "Reports").

Sincerely,

DOUGLAS MURDOCK Chief Information Officer State of Hawai'i

Attachment (1)

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

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

KINT



Acuity<sub>up</sub>

True

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> CERTIFIED PUBLIC ACCOUNTANTS



MONTHLY ON-SITE IV&V REVIEW REPORT

**REPORT FINALIZED** 

January 24, 2020 | Version 1.0

March 6, 2020

## Table of Contents

EXECUTIVE SUMMARY	3
Background	3
IV&V Dashboard	4
FINDINGS AND RECOMMENDATIONS BY ASSESSMENT AREA	6
Overall Rating	6
Program Governance	7
Project Management	8
Technology	10
Appendix A: IV&V Criticality and Severity Ratings	12
Appendix B: Industry Standards and Best Practices	14
Appendix C: Interviews, Meetings, and Documents	17
Appendix D: Prior Findings Log	20

Appendix C: Interviews, Meetings, and Documents17Appendix D: Prior Findings Log20Appendix E: Prior IV&V Reports31Appendix F: Comment Log on Draft Report32

## Acuity

## Document History

DESCRIPTION	AUTHOR	VERSION
Monthly On-site IV&V Review Report Draft created	Julia Okinaka	0.0
Monthly On-site IV&V Review Report updated to correct a document reference in Appendix C and for a comment in Appendix F that was corrected on page 11 and in Appendix D. General formatting and grammatical edits also made.	Julia Okinaka	1.0
	Monthly On-site IV&V Review Report Draft created Monthly On-site IV&V Review Report updated to correct a document reference in Appendix C and for a comment in Appendix F that was corrected on page 11 and in Appendix D. General formatting and grammatical edits	Monthly On-site IV&V Review Report Draft created       Julia Okinaka         Monthly On-site IV&V Review Report updated to correct a document reference in Appendix C and for a comment in Appendix F that was corrected on page 11 and in Appendix D. General formatting and grammatical edits       Julia Okinaka

### **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 requirements management, project organization and management, and hardware. 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 January 24, 2020. 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.

### PLANNING FOR SUCCESS

"Our goals can only be reached through a vehicle of a plan, in which we must fervently believe, and upon which we must vigorously act. There is no other route to SUCCESS."

- Pablo Picasso



## PROJECT ASSESSMENT

**AS OF JANUARY 24, 2020** 

HIGH

MEDIUM

LOW

N/A



## **23 OPEN FINDINGS**

**37 OPEN RECOMMENDATIONS** 

\$10

\$12

REVISED\*\*\*

**GO-LIVE** 

REVISED

SEVERITY RATINGS BY ASSESSMENT AREA

## ASSESSMENT AREA & RATINGS SUMMARY

**AS OF JANUARY 24, 2020** 

NOV	DEC	JAN	IV&V ASSESSMENT AREA	IV&V OBSERVATIONS
Y	Y	Y	Overall	The criticality ratings for three IV&V Assessment Categories are trending upward and zero are trending downward. Although progress is steady and the revised Content Management timeline allows some time to catch up, the overall rating continues to reflect the collective foundational project process deficiencies and the project resource constraints that limit project performance. Refined project processes and adequate project resources are key to ensure the new timeline will be achieved and to elevate project performance going forward. <i>Project Schedule:</i> A revised go-live date of June 1, 2020 for Content Management has been tentatively
				approved. 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 \$2,594,000. 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).
				<i>Quality:</i> DLIR established success metrics but has not yet finalized quality metrics (refer to finding 2019.07.IT05). Accuity will evaluate progress towards achieving project goals when DLIR begins to collect metrics data.
G	G	G	Program Governance	The eCMS Project Executive Steering Committee (ESC) continues to provide guidance and oversight to the eCMS Project through discussions of major risks, issues, and decisions. DLIR established project success metrics and efforts are underway to develop DLIR's IT security policies and procedures.
Y	Y	Y	Project Management	Incremental improvements were made for requirements management, schedule management, and resource management, however, continued focus on and efforts to remediate these key foundational project process deficiencies is critical for effective project management and overall project performance. Limited project resources result in regular deferment of stakeholder communications, cost management, and organizational change management (OCM) activities. DLIR plans to procure additional resources to support upcoming testing and data conversion activities.
			Technology	The Case Management development team is steadily implementing user stories, currently in Epic 2 Sprint 3. The Content Management development team is awaiting completion of what IBM determined to be an enhancement request for additional Datacap functionality. The IBM enhancement release is scheduled for the end of March, a primary factor in the revised Content Management go-live date. Efforts to establish the secure connection with AWS have delayed the completion of the AWS environments and is another major factor in the revision of the Content Management timeline for data conversion, training, and testing activities. Security, test, quality management, and configuration management plans remain 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



R

### **OVERALL RATING**

Security

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. Three IV&V Assessment Categories improved and zero declined from the prior report. Although progress is steady and the revised Content Management timeline allows some time to catch up, the overall rating continues to reflect the collective foundational project process deficiencies and the project resource constraints that limit project performance.

NOV	DEC	JAN	PROGRAM GOVERNANCE	NOV	DEC	JAN	PROJECT MANAGEMENT
G	G	G	Governance Effectiveness	Y	Y	Y	Project Organization and Management
•	•	1	Benefits Realization	R	R	R	Scope and Requirements Management
NOV	DEC	JAN	TECHNOLOGY	R	R	®	Cost, Schedule, and Resource Management
$\odot$	Y	Y	System Software, Hardware, and Integrations		Y	Y	Risk Management
G	6	G	Design	•	Ø	•	Communications Management
•	•	•	Data Conversion	Y	Y	Y	Organizational Change Management (OCM)
R	ß	®	Quality Management and Testing	$\odot$	G	G	Business Process Reengineering (BPR)
•	Y	Y	Configuration Management	NA	NA	NA	Training and Knowledge Transfer
		-					

### AT-A-GLANCE

FINALIZE security and test plans

Improve FOUNDATIONAL project processes

Elaborate **SCHEDULE** details

Maintain **POSITIVE** momentum



PROGRAM GOVERNANCE

Governance Effectiveness

**Benefits Realization** 

### PROGRAM GOVERNANCE

G

NOV	NOV DEC JAN		IV&V ASSESSMENT	NAV OBSERVATION	FINDINGS					
NOV			CATEGORY	IV&V OBSERVATION	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 through discussions of major risks, issues, and decisions. The DLIR Electronic Data Processing Systems Office (EDPSO) is making progress to set DLIR IT policies and strategy.	0	0	0			
•	•	0	Benefits Realization	DLIR established project goals and success metrics. These goals and success metrics need to be communicated and metrics data collected to monitor progress towards achieving success.	0	1	0			



### PROJECT MANAGEMENT

Project Organization and Management

Scope and Requirements Management

Cost, Schedule, and Resource Management

Risk Management

Communications Management

Organizational Change Management

Business Process Reengineering

Training and Knowledge Transfer

PROJECT	MANAGEMENT

#### FINDINGS **IV&V ASSESSMENT** NOV DEC JAN **IV&V OBSERVATION** CATEGORY NEW OPEN CLOSED The collaborative and transparent approach taken by the DataHouse Case Management development team continues to keep that part of the project performing well and moving forward. **Project Organization** Limited visibility and collaboration in other areas 0 3 0 impacts DLIR's understanding of and ability to and Management properly prepare for upcoming tasks. Clarification of roles and responsibilities is needed for M&O and testing. Formal change requests are still pending for significant project changes. The process for approving Case Management user stories changes and the process for tracing contract requirements to system requirements was Scope and clarified. Documentation of requirements (e.g., Requirements 0 2 0 security, performance, acceptance criteria) is still Management incomplete. Remediation is critical due to the impact it has on development, testing, and ultimately user acceptance and satisfaction. A revised Content Management go-live date was approved, however, specific task dates are still pending DLIR approval. The Content Management schedule was revised due to the IBM enhancement request and the delays in the AWS environments and connections (refer to page 10). Focus on adding missing or more detailed tasks and Cost, Schedule, and R Resource identifying task dependency relationships is critical 0 4 0 Management to prevent further delays. Limited resources has been a major factor in project performance. DLIR plans to procure additional resources to support upcoming testing and data conversion activities and implemented a new tool to manage resource assignments and deadlines to better utilize and manage existing project resources.



	NOV	DEC	JAN	IV&V ASSESSMENT	IV&V OBSERVATION	FINDINGS			
PROJECT	NOV	DEC	JAN	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSED	
MANAGEMENT Project Organization and Management	8	V	Y	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	
Scope and Requirements Management Cost, Schedule, and Resource Management Risk Management Communications	•	•	•	Communications Management	No significant updates since the prior report. Improvements are still needed to increase the 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 February 2020 for completion. Stakeholder communications need to be timely and with all impacted stakeholders.	0	2	0	
Management Organizational Change Management Business Process Reengineering Training and	Y	V	<b>e</b>	Organizational Change Management (OCM)	No significant updates since the prior report. 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	
Knowledge Transfer	0	G	G	Business Process Reengineering (BPR)	BPR improvements continue to be delivered through each Case Management development sprint.	0	0	0	
	NA	NA	NA	Training and Knowledge Transfer	Training and knowledge transfer activities are not occurring at this stage of the project. Introductory training on the Case Management user story tool for preliminary user testing is planned for February 2020. The Content Management training dates were tentatively revised to April 2020, pending DLIR approval.	0	0	0	



### TECHNOLOGY

System Software, Hardware, and Integrations

Design

Data Conversion

Quality Management and Testing

Configuration Management

Security

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-	Sec. 1	1000	IV&V ASSESSMENT			FINDING	s
NOV	DEC	EC JAN	CATEGORY	IV&V OBSERVATION	NEW	OPEN	CLOSE
∞	V	V	System Software, Hardware, and Integrations	The Case Management development team is working steadily to implement user stories in Epic 2 Sprint 3. The Content Management development team is awaiting completion of what IBM determined to be an enhancement request for additional Datacap functionality (Issue #7 DataHouse RAID Log September 2019). IBM expects to provide the production release in March 2020. Content Management activities are also awaiting setup of the AWS environments that are still in process due to delays in establishing the secure connection between DLIR and AWS (Issue #11 DataHouse RAID Log December 2019). DLIR is still refining the network infrastructure details.	0	2	0
G	•	G	Design	The Content Management and Case Management design continues to be refined during the Build stage. The Case Management design document was updated for Epic 1 changes and is pending DLIR review and approval. Although security design is still unclear, this is covered in the Security IV&V Assessment Category.	0	0	0
•	<b>v</b>	•	Data Conversion	No significant updates since the prior report. 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



	NOV	DEC	JAN	IV&V ASSESSMENT	IV&V OBSERVATION		FINDING	S
TECHNOLOGY	NOV	DEC	JAN	CATEGORY	IV QV OBSERVATION	NEW	OPEN	CLOSED
System Software, Hardware, and Integrations Design Data Conversion Quality Management and Testing Configuration Management	R	R	R	Quality Management and Testing	The DataHouse and DLIR test plans and the DLIR quality management approach are still pending. DataHouse plans to deliver the test plan in February 2020. DLIR plans to procure resources to help with development of the DLIR test plan and support testing activities. DataHouse testing activities are already underway, however, IV&V does not have visibility to provide an update or assessment of DataHouse testing. Content Management user acceptance testing (UAT) was tentatively rescheduled to May 2020, pending DLIR approval. DLIR plans to hold trainings in February 2020 to kickoff the preliminary user testing activities for Case Management.	0	2	0
Security	0	v	Ŷ	Configuration Management	No significant updates since the prior report. 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
	R	R	R	Security	DLIR continued to work on identifying security requirements and assigned EDPSO vendor resources to assist with this task. Security is still 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 security documentation 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**

### TERMS

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

ISSUE An event that is already occurring or has already happened. The criticality ratings are assessed based on consideration of the severity ratings of each related risk and issue within the respective IV&V Assessment Area and IV&V Assessment category, the overall impact of the related findings to the success of the project, and the urgency of and length of time to implement remediation or risk mitigation strategies. Arrows indicate trends in the project assessment from the prior report. 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.

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

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

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

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



#### **Severity Rating**

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

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

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



### TERMS

POSITIVE Celebrates high performance or project successes.

PRELIMINARY CONCERN Potential risk requiring further analysis.

## Appendix B: Industry Standards and Best Practices

STANDARD	DESCRIPTION
ADA	Americans with Disabilities Act
ADKAR®	Prosci ADKAR®: Awareness, Desire, Knowledge, Ability & 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 $^{ m (PMBOK)}$
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
01/16/20	Interview with Hong Phan (DataHouse Project Sponsor) and Teri Watanabe (DataHouse Project Manager)
01/24/20	Interview with Justin Hiraoka (EDPSO Technical Specialist)

### MEETINGS

DATE	MEETING DESCRIPTION
01/07/20	Case Management Sprint 2.2 Review Session
01/07/20	Case Management Sprint 2.3 Planning Meeting
01/08/20	Case Management Sprint 2.3 Planning Meeting
01/08/20	Case Management Epic 3 Look Ahead Meeting
01/09/20	Case Management Epic 3 Look Ahead Meeting
01/10/20	IV&V Update and Planning Meeting
01/13/20	Monthly eCMS Steering Committee Meeting
01/13/20	IV&V Report Draft Walkthrough
01/14/20	Case Management Sprint 2.2 Retrospective Meeting
01/15/20	Case Management Entities and Contacts Discussion
01/15/20	Security Requirements and Controls Working Session
01/16/20	Case Management Daily Scrum Meeting
01/22/20	Content Management Action Date Discussion



### **MEETINGS (CONTINUED)**

DATE	MEETING DESCRIPTION
01/23/20	Case Management Daily Scrum Meeting
01/24/20	Case Management Requirements/Backlog
01/24/20	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 12/10/19 for reporting period 11/16 – 11/30/19)
Risk and Issues	RAID (Risk Action Issue Decision) Log (Updated 01/24/20 by DataHouse Project Manager)
Development	DataHouse Development Team Status Meeting Minutes for 01/15/20
Development	DataHouse Development Team Status Meeting Minutes for 01/24/20
Development	Property Descriptions for Content Management (Word file)
Design	Case Management Design Version 1.2 (Updated 01/24/2020)
Design	DCD eCMS Architecture Version 5
Design	DLIR AWS Routers Temporary Solution Diagram
Design	DLIR AWS Routers Overall Endgame Diagram



### **DOCUMENTS (CONTINUED)**

ТҮРЕ	DOCUMENT
Requirements	Requirements Traceability Matrix (Updated 01/24/20)
Project Management	Change Log (Updated 01/24/20)
Project Management	DLIR To-Do List Template
Schedule	eCMS Microsoft Project Plan as of 01/15/20 (MPP file)
Costs	DCD eCMS Modernization Project – Services (Excel file) (Updated 01/24/20)
Governance	eCMS ESC Meeting Agenda (01/13/20)
Governance	eCMS ESC Meeting Minutes (01/13/20)
Benefits	Success Goals and Metrics as of 01/24/20



## Appendix D: Prior Findings Log



#### Appendix D: Prior Findings Log

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SSMENT			ORIGINAL	CURRENT	the second second second		A PROPERTY AND A REAL PROPERTY AND A		A CONTRACTOR OF A CONTRACTOR O	FINDING	and the second of the second se		and the second sec
GORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
onversion .	2019.11.1701	Rist	Moderete	Moderate	Unclear dete conversion plans and processes may actuace DUR's ability to prepare for proper dete conversion.	The Content Menagement Conversion and Migration (sersion 1.2 pending DLR approve) and case Management Conversion and Migration (sersion 1.1 panding DLR approved) describe the deta conversion process and ones and responsibilities between Destributions are DLR N to responsible for parterning UAT on the deta and utilinately signing of on the final reconciliation reports but has not by thomatileab plants for these tasks. The data conversion plans do not provide aufficient datals and DLR does not knew hing/to the Dhadrahous deta conversion teams' activities, tools, reports, risks and issues, and teating. As such DLR is table to property prayers for their parts in the process and will not be able to delust thair data convention test plans for maximum affidency. The IVAV recommendations made at 2019.07 PMD2.28 and 2019.07 PMI.372 regarding Datalituse hadding DLR project activities and adding detailed tasks to the project schedule will also address the additional subdition taddition activities hadding out in their resonand additions in activities hadding bulk in project activities and additionality. DLR additional to the project schedule will also address this harding. Salow are additional recommendations to their improve data and additionality. DLR additional to the project schedule will also address this functions.	2019.11.1701.R2 2019.11.1701.R3	deta conversion process.	Experien how date conversion tools perform validation and moondificition steps and since validate reports and logs. Experient the process for how the date conversion plans will be updated for changes in system requirements. Hhow do details on timing, number of date activations and table to be performed, and necessary removinging of data. Focus DLR tests to address identified data conversion risks and issues. Failunds date conversion tast resource needs and ensure adoputed securces and experiment, where the interface of the to findings 2019.06.PM02 and 2019.07.PM14). Evaluate semining time receiptements and begin to schedular or acquire encourse) receiptements and begin to schedular or acquire encourse) receiptements and begin to schedular or acquire encourse) receiptements and begin to schedular or 2019.07.PM14).	Open	12/20/19: The Content Menagement date conversion pilen v1.3 was updeted to Include a sample report time the date conversion tool. DLR all needs to understand what the report representes and what haps the date conversion tool is performing to generate the report. 01/24/20: DLIR plans to procure additional resources to support date conversion activities. Acculty will evaluate date conversion plans as progress is made.		
		1	1	1		conversion plans and activities.							1
e and Irements gement	2019.10.PM01	Risk	High Moderatis	High	The current RTM documentation and tool may hindry tracessility, which may impact the solility to ensure the overall eCAS sociation fulfills all neglimements and provides context and supectations for classign, development, and texting.	requirements management process. Requirements documentation was developed upperfere from the Dateitouc contract requirements and more detailed requirements was developed by the Content Management and case Management development terms to use for development. As a mout, three is duplication of requirements in the RTIM which will likely impact straceality to requirements the total RTIM which will likely impacts management development terms or user stores used by the Content Management development terms or user stores used by the Content Management development terms or user stores used by the Content Management development terms or user stores used by the Content Management development terms or user stores used by the Content Management development terms or user stores used by the Content Management development terms or user stores used by the Content Management development terms or user stores used by the Content Management development terms or user stores used by the Content Management development terms or as a addition to the RTIM by the next by the of accelopment certains or and terms or a not carrently trees to be project. Dejectives and access metrics to ensure requirements add business while or acceptance certains or an antisker. And which initias venion-control, term Carlina containsolver, and terms and the addition containsolver. Management and the addition containsolver. Management and and the development and the store addition containsolver. The development and the development and the development and the development and development and deve		Improve requirements traceability.	These contract regulatements to requirements subset used by the development teams to carruic completeness.     "Consider identifying high-feed requirements that duplicate more deallast requirements to reduce reductionary in traceability to design and teating.     "Trace requirements to the project objectives access methics failer to finding 2018.07.PGQB to ensure each approved requirement, redds business wave.     "Add scoppting of the to the RTM to ensure stakeholder satisfield.     "Consider use of a requirements management tool with greater functionality.     "Consider use of a requirements and non-dimenset.		11/22/19 and 12/20/19: The Case Management development team begin adding acceptince of help do user storks. No other algorithant improvements for traceability were made. 01/94/02: DUR and Deplicature discussed and derified the process for traceability. Additionally, Detable and Carter Management use reases will be traced to testing documentation. Acculty will evoluate the RTM as improvements are made. 11/22/19: DataHouse and DUR test plans were not finalized as		
ty igement and ig		resk	Moderate	High	Leck of spiproved test plans may impet: two execution and quality of test activities and documentation.	Thet plan was scheduled for completion on September 3, 2019. Due to the need to loave servarises on the AVS setup and network convertions, Detail-loase in now targeting to complete the test plan in Notember 2019. DICH plannes to complete the DIR Hat plan in Active 2019. Due to resource constraints and the need to work on other DIR IT InNetWeb, per DIR tas plan appacted completion data was revided to howenese 2019 and the plan may be combined with the Data/scase test, plan. As Detai-loase test, activities ere scheduled to begin in Notwember 2019. DIR needs to unitariand Detail-loave its stratisticy and testments. DIR also needs to establish thair own tas strategy as well as Identify, train, and archidule DUR tast mesources.		Fhalfzo the test plan.	<ul> <li>Identify applicable task standards and regularments.</li> <li>Definition fords and region/solitilities between Detabloaus and DUR (refer to finding 2018.07.HVX2).</li> <li>Festimate task requires readures and onsure adequate resources are contribute, residue and acheoluted (refer to findings 2018.08.HVX2) and 2019.07.HVX14).</li> </ul>	Open	plemed. Detailouse is performing some testing ectivities, however, Acculy does not have insight into testing activities to provide an update or assessment of testing. 12/20/19: The Case Management development team weited through the tool that will be used and the steps to partform and document preliminary UAT for each user story at the end of each development Epic. The Detailouse and DLR test plans are still pending. 01/24/20: The Detailouse tast plan is targeted for completion in Fabruary 2020. Dis plans to process additional resources to aetist with the development of the DLR test plan and support testing activities. Acculty will evaluate the test plans when they are finalized.		
rity	2019.10.IT02	Risk	High	High	Lack of formalized sectry policies and procedure any inpact the security and prkecy of the dets and may lead to project delays.	In piece to adequately protect CoXS Project data. The task of policies primarily impacts the completion of the AWS setup and the Context. Management solution component. Security requirements for the doud environment must be determined and controls implemented before the AWS environments can be used for planned dates comension and testing	2019.10.IT02.R2	Formalize security policies.	Work with ETS to align DUR poteles with State policies and/or a standard searchy thramework. "Consider prioritizing security policies that are most relevant for use of cloud services and des protections (e.g., security agging and monitoring, MFA, remote access, encryption of date at-rest end date in-transit) "Centry roles and responsibilities for security controls between DLR and ETS. "Consider prioritizing security procedures. "Consider prioritizing security procedures. "Consider prioritizing security procedures."	Open	11/22/19: DUR begen working with EDPSO and ETS to Identify security requirements. 12/20/19 and 01/24/20: Efforts are underway to Identify minimum security requirements with a focus on AWS and Implementing security controls to allow AWS to be needy for use. Acculty will evoluate the security paticles, requirements, and procedures as they are finalized.		

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SESSMENT	-	ORIGINAL C	URRENT	-			and the second second		FINDING			
In clory Financia in a clore of the second s	TYPE Issue	SEVERTY S	EVERITY Accierate	FiloNo.	management process that includes Change Requests, Impact assessments and a Change Log. The change to AWS (refer to finding 2019.07.1701 in Appendix D) and the revision of the Content Management go-live data were approved by DUR but not documented in Change Requests or a	2019/00/PM01.82	Reconstructions in Change Requests, with an Impect assessment and the Change Log In accordance with the 'Right Management' Hard Change management process for greater carry and effectiveness.	Consider setting thresholds or oftenia for changes that go through affirment approval processes.  Paning the affi	STATU5	In DeclarAntisticAtter In Discretion Status and Status and Status and Status Iog 201479: Discretiones and International Change Requests for project structures and AMS_Datis Is also evaluating AMS Control Tower options which may result in a Change Request. DLR also defined threadouts for change that we response to the GAVS Executive Structures (Status and Status 2018) 07 PAG0) and change process (Wart to finding 2018) 07 PAG0) and change process (Wart to finding 2018) 07 PAG0, and change process (Wart to finding 2018) 07 PAG0, In 12/2019: Entrias were added to the Change Log Requests for the project schedule and AWS were still not drafted. 12/20/19 and D1/24/20: No updates to report. Accutive will involve the Change Requests as they are finalized and evaluate improvements to the Change Log.	CLOSED DATE	CLOSINE REASON
sit, Schedule and 2019 08, PM02 source anagement	Risk	Prolim N	Accerete	Undefined resource management processes and procedures may result in undentified resource requirements inadequate resources, or project resources that are not optimally utilized. (Updated)	This was originally reported in the September 2019 IVAV Monthly Report: as a prainfunety concern to 48 supgraded to a risk in this report. The Project Menagement Ref Network 31 Notice a human resource menagement section that outlines the high-level roles and responsibilities of version tarm memory and other a process for how resources will be managed. This will become more oritical for DUR as the project original procession and and other a process for how resources will be managed. This will become more oritical for DUR as the project agenuity of more secures demanding to project and still project team provide the default of the process for the project of the process are not thill be default of the project of the project of the communication and high the to the more provide and still provide the angined involves and the default of the project of the management of missiones and the augments, and truth moures of the anging of Gas Management prior the but more provide autimum based on animal of management prior the but more provide autimum based of animal management prior the but more provide autimum based of autimum of ample cased prior based to manage and this autimum to the start of how the but more provide autimum based of autimum of ample cased prior based to manage a sources for autigent data will have to minima project delays. DLR developed a rough estimate of hours to parform scanning and data autimum of ample cased prior based to more provide autimum based of autimum of ample cased prior based to more particle autimum based of autimum of a supple as the bub to complete incomery data comersion acclustra to the together apple to complete incomery data comersion acclustra to the together apple to the together more many determine requirement for tracking. of formalized a plan for artification by the tangeting resource more and resource inports will able address the finding. Relevance additional for artification to the start plane feature concernes of a detatore proper will able address the finding. Relevance	2019 09 PM02 P2	Develop procedures to estimate and refine DLIR resource requirements. Develop processes to optimize utilization of DLIR project resources.	Potell inccessory steps and Information needed to estimute and refine records requirements. Consult Deathouse of input on typeoning activities that require DIR resources and derify spectations of resources. Hagin responsibility for an deatability integrid to detect to develop isoccross estimutes for major register. Existings 6. data consultant working with managers of project resources to reselign ame method and used to dudte. Comited working with managers of project resources to reselign team methods and used to dudte. Comited working with managers of project resources to reselign ame method and used to dudte. Comite part of the start responsibilities is 0. Teaming team members used to dudte the responsibilities is 0. tradesignments. Finance team members or property theired and propered to perform table salignments. Fayabine assignment progress and compilation.		10/25/19 and 11/22/19: Acculty will continue to monitor this preliminery concorn as the testing, data convention, and spirit invidence with stateholders activities are underway. 12/20/19: This was changed to a risk in the December 2019 IV8V Monithy Report. 12/21/20: DLR Implemented a new tool to manage resource and product a state to better utilities and manage writing register resource. DLR also plans to better procure additional resources to support data conversion and tasting activities. Acculty will evaluate how the new tool is functioning and how details for the plans to procure resources are developed.		
stem Software, 2019.08.1102 roberte and signations tet Conversion 2019.08.1103	Profim Profim		₩/A		The M&O roles and responsibilities should be claffice and associated support processes whold be associative prior to go he of the Carner and the control of the stabilities of prior to go he of the Carner and the control of the c	N/A	N/A for prelim findings.	N/A for preim findings. N/A for preim findings.	Open Open	10/25/18, 11/22/19, 12/20/19, and 01/24/20: Acculty will continue to monitor this preliminery concern as the pien for MBO is developed. 10/25/19, 11/22/19, 12/20/19, and 01/24/20: DLR is working with the Sate of Hewell State Programment Office (SPO) and the vendor to get the maintenance service regulard. Acculty will continue to monitor this preliminery concern as risk mitigetion piens are executed.		

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SSESSMENT	SINDING ID	TYDE	ORIGINAL	CURRENT	EINIDING	AMALVEIS	RECOMPLENDATION ID	RECOMMENDATION		FINDING		CLOSED DATE	
nefits Reelization		The sCMS Project core not have a project chertor that would have higher to formalise. Based on informal incommonitation and busices and busices the based of the project. Based on informal incommonitations makes by Tasmi Acauity during the initial NW on-site review. DRI is in the process of intenting a project chartor inch include set goals and account marks. The lack of clear and measurable goals and account marks in diminant to determine the project and include alcolon of the determined of improvements or banefits bub_just/bub projects framates determined in the project and the close of the dotting phonon interactions and account marks needs to be defined based on their going any further in the project as they should be guiding all key decision throughout the entire project.		Formalize measurable goels and auccess metrics in a project cherter. Collect baseline and project performance data to monitor or weaknate project or contractor performance.	employee astrifaction, uar doption, return on investment, or cycle or processing times, "Consider project management, organizational change management, and benefits realization management objectives as wall as alignment to DUR goels. "Consider methods for collecting data such as surveys, queries, observetion, open forum, or exclus) performance texting. "Consider sources of dets auch as logecy systems, operations, and internal and adversi stateholders."	Open .	09/20/19: Acaby document the severity withing from Lavel 1 PHigh to Level 2 (Modersta). The DCD Business Amergen's based segment this task of developing and monitoring a GAM Frequet success minitors with the support and coversight of the DCD Executive Spornor. The OCD Business Amergen dramad some preliminary matrics for consideration that will continue to be refined and finalized. 10/25/19: DLR continued to refine the success metrics and began to identify data sources for baseline metrics. Success metrics and began to expected to be finalized and communicated to state/index in November 2019. 11/22/19 end 12/20/19: DLR is close to finalizing and plans to port.						
											01/24/20: DUR formelized project success metrics. DUR still needs to communicate these measures of success and begin collecting data. Acculty will continue to availuate the collection and monitoring of success metrics data.		
gject iganization and anagement	2019.07.PM02	Risk	High	High	performence.	The 6CMS Project has failed to achieve team synargy between DUR and Detailous project team members and appear to work as expansite teams instead of one. Detailouse works simost exclusively of site accept or designated methys, workshops, and design setions are DUR in and included in many project design or development activities. The undear controlst team supporting roles and requestibilities between DUR and Detailouse (refer to finding 2019.07.PGO3), physical separation of the controlstate of the single activities and the site of the site controlstate of the site and activities and the site of the site controlstate of the site activities. This has also lod to ineffective communications within the project team (refer to finding 2019.07.PMO3).	2019 07.PM02.R1 2019 07.PM02.R2	Clarify roles and responsibilities between DUR and DetaHouse. The DataHouse Project Menager should work onlite et DUR through project completion to improve DUR and DetaHouse project teem coheston.	- Consider revering project managament plans to lishedby the person imponsible and the specific responsibilities for each project managament area. - Consider the need to include an outline of DDIR and DataHouse roles and responsibilities in a contract modification (refer to finding 2016.07.PGGS)	Open	108/2019: Acutity decreased the severity rating from Level 19 (bij) to Level 2 (Moderatina). Although Detrahouse does not prints not net to LINE, they began to Include DIR in spirite planning, welvey, and retrogoether meetings. This has gleen DIR more imagint his project datus and roles and responsibilities. The DIR Project Menager and DCD Executive Sporws relat Hit times in more overall project consistion and that the DataHouse Pringlet Manager's communication is effortive via planow, nemil, text, GG 76 Moding, and in person meetings. As noted above at finding 2018/07/EQD. DIR plans to cidentify naise and responsibilities in project plan updates. The Case Menagement Conversion and Migration Plan formian 1.0, 30 deliande some responsibilities in projection Plan		
				2019 07.PM02.R3	Include DUR In project activities and communications to increase DUR and Detailuas project team constion.	2		Deterious Conversion and Migration Team and DLIR. 10/25/19: Progress was made to clefty roles and responsibilities in the areas of acuity and network constorm, however, luther clerification is still necessary particularly in the areas of tasting and MAO. 11/22/19: Roles and responsibilities for Containt Management data commiton were clerified. Detail-tous has included DLIR in Case Management development built DLIR is not stillering included in Detail-tous's data conversion, integrations, and testing activities in order to be able to identify any risks or issues from a builness/user perspective.					
											12/20/19: The Sorum methodology employed for the Case Management development promotes collaboration, open communication, and transpersory between DUR and Datafoues. Increased collaboration or at least understanding of other expects of the project at still incoded. 01/24/20: No updetes to report. Acculty will continue to avaluate the clerity of roles and responsibilities as project plans are refined and observe the effectiveness of project organization.		
ect snizstion and agement	Interformed Comparison of Comparison Compari	issue	Moderate	Moderate	acceptance process has contributed to project delays and resulted in the acceptance of deliverables that do not	This has led to protracted review periods and acceptance of deliverables	2019.07.PM03.R1 2019.07.PM03.R2	Establish deliverable acceptance oriterie. Hold joint DLIR and DataHouse deliverable review meetings to walk	Consider Including acceptance oriteria in the quality management plan (refer to finding 2018 07.1105), in a contract amendment (refer to finding 2019.07.PG03), or in Delivenable Expectation Documents (DED).	Upen	09/20/19: Acculty has kept the severity rating as Level 2 (Modershi). Although Acculty observed DetaHouse and DLR meetings to review draft obliverables and DLR has expressed graders attifaction in the deliverable rayment and acceptance process. The process to evaluate deliverable rayment established acceptance christ has not yet been implemented. Additionally, the impact of deliverables or project		
		that do not meet inclusivy standards if yether to finding 2018 07/1400, A lack of a close valuation betting or ecoptions and brain gene of the first to finding 2018 07/1400, A 2019 07/1400, B lack of a quely menagement process and restures to verify deliverables (first or thinding 2018 07/1401, and over tasked project menages (first to finding 2019 07/1401, and sourt stated project deliverables have to finding 2019 07/1401, and sourt stated project deliverables have been of the 2019 been deliverables first been of the deliverables have been of the 2019 been deliver. Based on informal 1920 measures the Phase 1 g low delivers and the deliver and the deliver and the measures the Phase 1 g low delivers and the first dot informal 1920 measures be reference and the delivers and there does. Based on informal 1920 measures be reference and the close and DBLR started to implement joint deliverable review metaforts beginning Juane 2019.			2019.07.PM03.R3	through deliverables. Implement formel deliverable review and approval processes.	Include both the scope validation process for acceptance and the quality control process for connectness (refer to finding 2016/2711.05). To 2016/271.05) and a laberature segainst acceptance criteria include an evaluation of deliverables segainst acceptance criteria and requirements documentation. ~DUR should understand how each deliverable inspects the project. activation and success of the project.		schedular, relea end responsibilities, design, migretion, etc. Is not consistently designed. 10/25/19, 11/22/19, 12/20/19, and 01/24/20: No updates to report. Acculty will continue to availate the effectiveness of the deliverable review and acceptance process.				

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									and the second	-	and the second		
CATEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	A NAL VSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS LIPDATE	CLOSED DATE	CLOSURE REASON
Mensgement	2019-07.PM06	Isue	High	Moderate	Detailload: Indiffective and urdinally communication with the DLR Project Taen contributed to DLR's incomplete understanding of the exchange addated by the exchange addated by the exchange addated packetteller,			Implement delly fouch point meetings between DetaHouse and DUR Project Managers.		Open	08/20/19: Actually decreased the secontry relian from Lenel 1 (High/Ochied) to level 2 (Modensity). The Detainbane and DUR Project Managara have daily floating branch profession methods (high-pranon methods), Go To Metricy, small, profess and tead). Furthermone, as notate above at finding 2019 007 PM02, DUR has been included in time? Detailbane averaging including sprint planning, reviews, and retrospectives. 10/25/119: Some improvement of communications were made through DUR's participation in more Case Management development team meetings and Disahlouw's inclusion of DUR rounsets on with FTS. Communications regarding upcoming project activities, militatores, and due datas made to be revemped for DUR resources only and sorting by sant dated. 11/22/19, 12/20/19, and 01/24/20. No updates to report. Acculty will continue to resulte the effectiveness of these project.		
Communication	2019.07.PM07	Risk	Moderate	Moderate	The lack of tallored project	Communications management is a part of the Project Management Plan	2019.07.PM07.R1	Further refine communication	<ul> <li>Segment stakeholders into groups by communication needs such</li> </ul>	Open	09/20/19: Acculty decreased the severity rating from Level 2		
Menagament					avmmunkatiloo for all Impated bashenolden murkuka suar adoption and statesholder buy-in.	developed by DeteHouse, however, the plan is not comprehensive and		nangement plots	The group strength until (b g. ). Hearings, Until common, or Records and Colomb, by position (b g. ). means, responsely, or internals and externing (b g. datimetrs, humance agencia). Constator the inter occommunication methods listed in DearHouse's BAFO. -Due to limited DUR resources available for communication activities, the specific groups and communication activities should be prioritized to boar resources more afficiently. -Update the project, schedule for communication activities and and great resources (refer to finding 2018.07.PM14).		Noteriarial to Line 13 (June) DLIR plans to host two seasons on October 1. 2019 to update the DLIR training taxaholicas (including neighbor bland staff) on which has been happening for the last year on the eXXR registic including a training of each bland bland bland DLR website to include graptic information that is accessible by Internal and external stabeholders. 102/5/19: DLR had two seetons for Internal stabeholders to provide an update on the registic programs and themas. DLR whether to the taxing internal and external stabeholders. 102/5/19: DLR had two seetons for Internal stabeholders to provide an update on the registic programs and themas. DLR works to DLR blands and plans to update the website and draft the cartin newsites; to include project updates. As noned above at finding 2018/27/MOS, the Scium methodology should be communicated to all stabeholders to will be participating in spint extentions. 11/22/19: Accelly Increased the sevelty refing from Level 3 (Low) to level 2 Moddents of a plans to update the website and out a field to carries regarding upcoming changes were not completed stelenbiolders to be executed themaly. 11/22/19: The letter to carriers was seried out, however, the website hear of yet been launified. There is a lot of opportunity to leverage the eCAS DLR Core Team members is out to be automicate project. Updates to internal stabeholders to communication project. Underts to internal stabeholders on some fragent bask, however, the network of core learn members isouid be automicate to include indigitor bland representatives.		
Organizational Change Management	2019.07.PM08	Risk	Moderate	Low	Mitering pay OCM eng-or activities may no (lanethy poetar) adsquately enable individual change.	There is no formal DCM (plan or approach. Diad-House's BAFO lists writeo DCM additios but these ware not formalized in a plan or processes. There are no DCM specific tasks or resources assigned for DCM addities in a formal or coardinated DCM approach, some elements of DCM addities trough inguiter project management call to think p2015/PHAI. Although there is address that the task transformation of the task		Develop and Implement a structured OCM approach.	Collists biseline change exertances and readines measurements through auroys or intraviews. Cleate and mobilize a change coalition group of managers, supervisors, and sey influences: Incorporate and sign COM into communication, business process engineering (BPR), and training excitation. Incorporate and sign COM into communication, business process engineering (BPR), and training excitation. Incorporate and sign COM into accommunication, business process influences and account of the second second second second information technications to support change and increase adoption.	Open	00/20/19: Acouty decreased the severity rating from Level 2 (Moderate) to Level 3 (2,w)A, number of communication activities are planned to provide averances of the upcoming project activities including the DLBI Internal statishicities meeting and DLR website discussed above at finding 2019.07 PM07. 10/25/19: Communication activities were executed or are in progress which help to particity address OCM. ETS has sedgred an OCM resources to assist with the aCMS Project. 11/22/19.12/2019. and 01/24/20: COM activities are not executed continually or constantion to keep stateholders engaged. There is a lot of opportunity to levenge the eCMS DLIR Core Team members to accuse COM activities. Acculty will continue to evaluate the OCM approach and monitor the drange readiness of project stateholders.		

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ASSESSMENT	FINDING ID	TYPE		CURRENT	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION		FINDING STATUS LIPDATE	CLOSED DATE	CLOSINE REASON
tisk Mensgoment	2019.07.PM09	Issue	High	Moderate	Identified, tracked, or reported resulting In the lack of understanding of potential Impacts across project team members	Only there in this and two lisues have been faderitified by Datablous on the project to data with no history of any risk leading data. Other Register taken was not trading any of 16 over risks leading data. Other Register taken was not trading any of 16 over risks and 2010/07 1100) was mere districtified and the second state of the MOUI agreement with by Safets to Indicate 2019 507 /MOU and 2010/07 1100) was mere districtified and the risk identified in the Contant Management Convention on Religibation traditions 00 document effect to finding 2019 2017 LGO was not included in the take and takes log, indicating an trafficether risks and lasses management process. Based on infimutation WAY more more communicated a price to tart identifying and logging fastiog strifty or to DataFloans' log and releviewing them together weekly. Al identification process should be implemented before moving forward in the project.		Formalita the Risk and Issue Management process Conduct regular meetings to discus project risks and issues.	A formalind process shade clarity define regensibilities and dapa in lightlicen, resolution and action kome tracking, and assisted procedures. - The project sam must encourage open, transparent discussion about rise and issue. - Include DataHouse and DUR and, on occasion, the executive steering committee (after to finding 2019.07 PG02). - Parform a detailed review of new lisms, status of open koms, risk/bsue owners, and mitigation plens.	Open .	10/20/17:8: Acutiv, docreased the severity rating from Layel 1 (High/Ob/List) low 21 (Montent). A DURR task tanger was segined in August 2019 and has begun to use mind mapping and a log to lidently and document risks. Roles and laws have been included on the segred for tweeting project status and monthly Exacutive Steering Committee (ESC) meetings. The risk management process meaks to be Anther minimat to combine the Detailloose and DUR logs into one scares, seging risk owners, and unweign mägsdards or threading that for a density of the Detailloose and DUR logs into one scares, seging risk owners, and 10/25/19: Risks were discussed at the weekly status meetings and monthly ESC meetings. The DUR Poyset Manager and DUR Risk Manager also meetings. The DUR Poyset Manager and DUR Risk tog. The risk management process improvements noted as of 3/20/19 are still open.		
										~	11/22/19, 12/20/19, and 01/24/20: No updates to report. Acculty will continue to monitor the risk management process.		
Scope and Requirements Management	2019.07.PM10	Issue	High	Moderate	The Contert Menagement and Case Menagement requirements documentation is incomplete.	The negativenests for both Content Management and Case Management have already been approved, however, the negativenests an incompletes (e.g. do not homopromise all content requirements and all three project places) and the descriptions in the Raquiments Tracessitily Martin (RTM lies structure chail. 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 Hereal Ravised Statuse, Hereal Administrative Ruiss and security requirements.		Revise Content Menagement and Case management requirements documentation and RTM.	Finuer regularements follow SMART (specific, mesurable, actionable, residuents and time bound guidalines. Ensure regularements documentation include all regularements lated in the DataHouse contract, all regularements identified during the subaholds existion, and for all three phases of the eCMS Project. Ensure regularements include functional, performance, process, non functional, security, and interface regularements.		00/2/0172: Acoulty decreased the severity reting from Level 1 (fight/Crited) twinz (Modernik). The RTM has been updated to Include more dealled and specific requirements and user stories from the Case Management and Contart Management development teams. DataHouse is in the process of enhanding their RTM to crosswelk and merge all requirements into one mestar document floating all construct requirements. With the staggement development of the Contant Management and Case Management exolutions and the Instruct measure of Sorum methodology, additional		
						Beguitaments managements to part of the Project Management Pian developade by Darkinsan, however, the lips in its not comprehensive. The Project Management Pian (wardon 1.2) was updated to Include additional dealta forgeding requirements management. While bit is an improvement over the previous weston, the lasts dirth pian Bit does not process, the transferring the magniments prioritization process, the transferring the state of the state of the provide development, and the state, it is assertible that requirements will be reported. As requirements are the foundation for proper system dealign, development, and thering, it is assertible that requirements documentation are complete and meet Includy standards and beta practices. Requirement documentation should be revised and requirements management processes should be Improved prior to moving forward in the project.	2019.07.PM10.R2	Incrove regularments managament processes.	Ensure that there is a clear understanding between DataHouse en DBLR regarding who is responsible of identifying and tracking different types of requirements. Howelop & process for prioritizing and reporting requirements. Howelop & process for tracking requirements to specific system design elements.	ī	solutions and the laterative nature of Serum methodology, additional requirements will contribut to be determined for throughout Case Managament: development which could have implications to Contexe for approxing and priorbiting requirements will need to be set. Formalising the process for managing requirements even interactions for approxing and priorbiting requirements will need to be set. To/2511:8: DateHouse provided training to the DUR Product Owners through the provided training to the DUR Product Owners through the provided training to the DUR Product Owners through the provided training to the DUR Product Owners provide to the DUR DUR DUR. Contract requirements were related to the SITM, however, itose requirements were not trace to the requirements builds used by the development teams for completeness.		
											11/22/19 and 12/20/19: Case Management requirements are refined through uses stories during each spirit. No date significant update negarding contract, integration, or security requirements to report. 01/24/20: The DataHouse Case Management development team clarified the process for approving new or network user stories. Acculty will continue to avoides the requirements documentation and processes.		
Cost, Schedule and Resource	2019.07.PM12	Risk	High	High	Informal cost management practices may lead to unexpected costs or	There is no formal cost management plan. A comprehensive total project budget is not created, tracked, or reported. Currently, payments are	2019.07.PM12.R1	Prepare a comprehensive project budget and a schedule of long-term		Open	09/20/19: Acculty has kept the severity rating as Level 1 (High) as a comprehensive project budget and long-term cost schedule have not		
Management					overpayments of contracts.	tracked for the two main eCMS Project contracts: DetaHouse SI contract and the Team Acculty IV&V contract. Other costs for licenses and		operational costs (e.g., licenses, subscriptions, maintenance, cloud			been created yet. Additionally, regular cost variance reports are not prepared or presented.		
						equipment are tracked informally as these are often paid from DCD's regular or excess funds. With the recent DHS development, costs of all required hardware and software for the alternative solution as well as long term operational costs need to be property evaluated and managed frefer in finding 2013 (DI). Architomally traffs unplet creats and informant information of the DD (DI). Architomally traffs unplet creats and informant information of the DD (DI). Architomally traffs unplet creats and information information of the DD (DI). Architomally traffs unplet creats and information information of the DD (DI). Architomatic traffs and the information information of the DD (DI). Architomatic traffs and the information information of the DD (DI). Architomatic traffs and the information information of the DD (DI). Architomatic traffs and the information information of the DD (DI). Architomatic traffs and the information information of the DD (DI). Architomatic traffs and the DD (DI) and the DD (DI) architomatic traffs and the DD (DI) architomatic traffs and the DD (DI). Architomatic traffs and the DD (DI) architomatic traffs and	2019.07.PM12.R2	services). Prepare regular cost reports for management and the executive steering committee.			10/25/19: Progress has been made to gather cost Information and act up budget tracking templates.		
						to finding 2018.07.1101). Additionally, total project costs and funding sources are not formally reported. The DetaHouse context attest that payments are contingent upon receipt of sorkes, disherabiles, and reports in accordance to the milistores that monthy payment schedule and so J June 30, 2018, but Net a monthy payment schedule and so d June 30, 2019, DUR has paid DetaHouse introde through Phyl Bray and June 2019 Initiation payments are still parching). Although they project schedule, disherabis humans, and g-other data have been pushed back no adjustments were made to the monthly payment schedule which could insult in anyongeners. Due to the led of class and specific detivenable expectations §refer to finding 2019.07.PK33, incomparise understanding of alth the schedule design farthe softing 2013.07.PK13, and underland criteria for ravising the payment schedules, Team Acabity is unable to thermine in the pay of less payments approximates.	2019.07.PM12.R3	Clarify DataHouse payment tarms and adjust payment schedules for schedule delays.			11/22/19, 12/20/19, and 01/24/20: No updates to report. Acculty will continue to monitor project costs inducing new AWS costs from finding 2019.07.1101) and cost menegoment practices.		

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TEGORY	FINDING ID	TYPE	SEVERITY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Second Parl In Googe wt, Schedule and source enagement	EINDING ID 2019 07. PM13	PPE Risk	Gweiniy Gweiniy High	culaeny		Impacts on the basisy reter to been indicating by participation, bucklinesses, in reported, Decisions or change metalists in revise the project schedule are not properly documented or approved in secontenes with the Project Managemere Phase. DetaHouse has prepared a higher-level project schedule and a more detailed traik listing. Atthough the project schedule will need to be updated due to the reard. PMS development and sector of an elemente southor, the following deficiencies were noted in the current project schedule. * Does not houcke all project tasks such as Build stage sprints, communication, OKA, BRP, and quality searcher (after to findings		Proceedings of the second seco		STATUS Open	<b>HENRES 24110 UPDATE</b> 09/00/19: Accord has logit the severity reting as Lawel 1 PHopi. 20/00/19: Accord has logit the severity reting as Lawel 1 PHopi. Accord 1000 Lawer Phase 1.2, and 3 and dentify severity sectors andigate for salest tasks. Here an actil is number of deficiencies round. The project schedule is not hyr rescurse loaded. In one Integrated with subcontraction's detailed schedules, does not include to the sector of the sector of the sector of the sector of the resources. Item 100 and 100 are not retain baseline does not include replace programs provides and the schedule is not explored resources. Identify the citized paths, or determined yourse. Identify the resources, identify the citized paths, or determined how, regular schedule variance reports are not prepared or prevented. 10/25/19: The project schedule was lupidated with time percentage to socity management pien (refer to finding 2016/07/107). Any Dilit tasks these noncessors for Deficiencies related to include in the project schedule resources or operandened to integrate a socity management pien (refer to finding 2016/07/107). Any Dilit tasks these noncessors for Deficiencies related to include in the project schedule end regularly communicated to DIJR (refer to refer) 2016. The operative integrate the include in the project schedule include integrated to indering 2016 2017. Alwos, The other schedule management taken.	CLOSED BATE	CLOSURE REASCAI
ost, Schedule and	2019.07.PM14	Risk	Moderate	High	Inedequeto essigned project resources		2019.07.PM14.R1	Reeveluets project resource needs	-Parform project schedulu updates for the attainetive solution (refer	Open	noted as of 07/2019 continue to limit the project's ability to improve project parformance and increase adherance to revised timelines. 11/27/18 and 27/2019. No updates to report. The Content Management go 4/w date thes not yet been egiuted. 01/24/20. The Content meangement go 4/w date was approved by DIR, however, specific task dates are attil pending DIR approvel. Acculty will continue to monitor the project schedule and schedule management practices.		
source anagement		1		1	may lead to project delays, reduced project performance, or turnover of	project schedule information (refer to finding 2019.07.PM13), however, based on observations of the eCMS Project team, the DataHouse and		and acquire additional resources.	to finding 2019.07.IT01) and missing tasks (refer to finding 2019.07.PM13).		Although two of the eCMS DLIR project team members have been assigned additional responsibilities to lighten the load of the DLIR		
	2019.07.1T02	Risk	High	Moderate	project resources.	DLR Project Mensgers appeer to be over-tasked. The DLR Project Mensger is the overly like 40m OLR employee adjund to the oXMS Project and understandably does not have time to parform all of the taske to properly manage the trigetor or meyamer DLR during project address. DLR should increase participation in deskip and development address. DLR should increase participation in deskip and development address. DLR should increase participation in deskip and development address that in the project or meyamers DLR during the to with the summary amengement is included in the Project Management Plan and states that "measures will be produced and no project mease. This will be reviewed with DCD on a quartery basis." The Project States Reports parametrit by During Unit Provide the test of the Project States Reports project coordinator resources to aveid, with meeting minutes and getting aprilect coordinator resources to aveids with meeting minutes and getting adverse/lists out.	2019 07.PM14.R2 2019 07.TM2.R1	management and the executive stearing committee.	Ensure resource levels and skill sets align to sedgred tasks. "Consider inclusing resource needs for unsavigned tasks or roles. "Consider inclusing DUR resources needs of and estimate incurs for gooming project scallar (sed estimate) and set of estimate to the second scale of the second s	Open	Project RM-enger, Inscieguest resources and the Uning of upcoming and tritical project activities continue to be a concern. 10/25/19: Resource constraints continue to be a concern. 10/25/19: Resource and Status and a second status and a second status and a second status and status an		
fardware and integrations					the design process and require additional effort to correct	by DLR on Mey 6, 2019. Case Management is currently in the design phase and design documents have not been provided. Although the Contant Menagement design document was completed and Case Management design in in program. Use mach transfers advoltors has not been defined. The transferse between Contant and Case Management and mangeral to the success of the program and should be fully defined in design documents in accordance with industry standards, Due to the name DHS development, the instantice options will need to also be massing of the binding and only on the Estimative Subtion selected. However, even prior to this development, DLR did not how the documents in success of the industry and development. DLR did not how the selected. However, even prior to this development, DLR did not how the documents in success of the industry selections and at the Instantice schladors and the quantities subtion. DLR diff and quantities the Instantices schladors	2019 07.1102.82 2019 07.1102.83	and analysis, Update the project schedule to define resources assigned to seek of the interface-related activities. Verify the proposed interface solution will work.	Instration solution including the hollowing: How Saleshords will query the selected Content Management solution How material content of the selected Content Management solution thom Salestore I Who is responsible for searcy, configuration, and maintenance and the sage neglicities in tuplication the Name and the search selected for development and long-term maintenance		to Lewis 2 Moderen). Detailous included a matter about the interface components in the Case Managemers Design Document. Furthermone. DataHouse organized two democ of 10 bb Salesforce another web service using an Errame and IBM ICN to get to File Salesforce and Salesforce and Salesforce and Salesforce Case Management Design Document evenion 1.11. 11/22/19.1220/19. and 01/24/20: DataHouse refined dataIIs in the Case Management Design Document evenion 1.11. 11/22/19.1220/19. and 01/24/20: DataHouse refined dataIIs in the Integration specification schedule. Acculty does not here full Integration specification schedule. Acculty does not here full integration development extivities and was are unable to provide a complete update on Integration development progress. Acculty will continue to eveluate the Interface solicion es additional dataIs en Enlished and as development progress using the actual solution components is mede.		

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ASSESSMENT	FINDING ID	TYPE	ORIGINAL	CURRENT	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Quality : Management and Testing	2019-07-1105	Risk	Moderate	Moderate	Not having an approved quality management plan and asigned quality searance reactions may impact the quality of project deliverables.	The Quality Menagement Pan (version 0:1) was drafted by DataHouse on Jane 23, 2019 but was not yet approved by DIR. The draft plan did nucl include gaally menta, quality standards, or quality objective of the project and does not describe how quality cortrol results will be documented or properiod. Additionally, the Quality Assume laad lidentTelle in DearHouse's BAFO is not estigned to the project team at this time. As it is simper each additionally the Quality Assume laad deliverables were already approved and many are panding approval. It is important for a quality management plan to be formalised and resources assigned to perform quality management actMties.	2019.07.IT05.R1 2019.07.IT05.R2	Ehelite the quality management plan. Parform quality management activities on previously approved or submitted deliverables.	DetaHouse and DUR should collaborate and agree on the quality management processes and metrics but will best some this project include quality standards on references to specific criteria first to finding 2019.07.MM3). - Update the project shedule to assign quality essentince resources (wher to finding 2019.07.PM14).		00/20/19: A Acuty has tack the severity reting as Level 2 Modershi The Debridues Project Menage communicate that Debridues's quality management responsibilities are specific to deliverables and tatting. A such, Acutily will work the DLB to understand what additional quality management addities and metrics need to applement the Datalocuse quality management plan. 10/25/18: DataHouse derified that the DataHouse Quality Management, Plan deliverable does not need DLB approx as it its approach to quality management DLR. The Case Management quality assumes are performed for Epic 1. DLR is working on the DLR quality management approach.		
	2019.07.1105	Risk	Moderate	Moderate	A lack of a configuration management	A configuration managamant plan has not yet been drafted. DataHouse	2019.07.IT06.R1	Develop e formel configuration	*Ensure the plan is in accordance with IEEE 828 2012 - Standard for	Open	does not have access to the project team's testing resources and we are unable to provide an update on tasting adMitles. Acculty will continue to evaluet a the quality management plan and adMittes. 08/20/19: Acculty has kept the severity rating as Level 2 (Moderate).		
Mensgement					plen my impect the performance and quelly of the system W unauthorized or untested changes are promoted between environments.	plens to propere a configuration management plan by October 11, 2019. Based on this current project plan, the VCMS register was approade to begin the Build stage of Plane 1. Atthough the recent DHS development III likely design the start of the Build stage, not having a configuration management plan in place increases the concern that changes may not be properly totald, accepted and approved which may impact getern performence or quality.		menagamant plen.	Configuration Management in Systems and Software Engineering and includus the configuration management planning process, configuration advantion status accounting process, configuration auditing process, interface control process, and release management process. "DataHouse and DUR Anould collaborate and sgree on the configuration management plan purposes and processes that will best serve this project.		Although Acculy obtained a better understanding of configuration menagement trively interviews of the Content Menagement, and Case Menagement development teams, bashlowae is still in the process of finality and documenting a configuration management approach. 10/23/19: No updates to report. 11/27/19: DataHouse provided a summary of the configuration management approach for the Case Management development team in addition to the previdual provided summary of the Content. Management approach to the Case Management development team in addition to the previdual provided summary of the Content. Management approach used by the other development teams (a comprehensive DataHouse by the other development teams (a comprehensive DataHouse team configuration management plan we not completed. 12/20/19: There was confusion about configuration items and neglimed DUR approvels due to a lack of a comprehensive configuration management plan. 01/24/20: No updates to report.		
											Acculty will continue to evaluate the configuration management plan and approach.		

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ASSESSMENT			ORIGINAL	CURRENT		And the second s		and the second sec	and a second second second	FINDING	the second s		and the second s
CATEGORY	FINDING ID	TYPE	SEVENTY	SEVERITY	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	STATUS	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Security	201607.1107	i i i i i i i i i i i i i i i i i i i	i voa tiv Modanite	i doveni v Nor	No-Noi Not having an approved security menegement pies in piece may impect the security and privacy of the data.	Addition The Society Management Plan Iversion 0.0) was propered by DataHouse on June 3, 2019 but was ney separated by DataHouse on June 3, 2019 but was ney separated by Data House of a large set of the Bulki stage. The Management and the Bulki stage, nor herding a searchy management plan in places may adequate of the Bulki stage, nor herding a searchy management plan in places may adequate of the Bulki stage. The herding a searchy management plan in places may adequate of the Bulki stage. The herding a searchy management plan in places may adequate of the Bulki stage. The herding a searchy management plan in places may adequate of the spatem to support the date needs of the spatem. Search Implementad as part of an organization-wide process that manages Information would plane yrak.	2018.07.IT07.R1	Economic and proceeding menangement plan meets specific standards.	Uncertainty in the constraints of the constraints o	) Alls	Indicating PARTIE CANAGE in the severity rating as Level 2 (Moderate). The security management plan has not yet been finatinge and save that to rom 10 web to indicate AMS security plans throm throng 2019 (2016). Acauty increased to lawer the security management plan updates in October 2018. Indicating the security management plan in the security management plan updates in October 2018. Moderate to Lower 1 felged due to the need to a plan corners to be in place and the impact that a delay in inglementing the plan or controls would have on project activities including data conversion, vaning, and testing. Detailed with the submitted Society Management Plan on the cost of a plan corners to be application security which they intend to document in an Application Society Management Plan on the OLULIs is responsible for resords acauty, security which they intend to document in a Application security management Plan and they OLULIs is responsible for resords acauty, security requirements, and exertly controls. The delay which they intend to document in a doplication acauty, security requirements, and exertly controls. The delay when its acauty security exercises and the dopardencies related to security which they intend. The delay in minute acauty security inclines the submitted is lacethed in the project acauty security inclines the advective to resords dopardencies related to security which they links to dopardencies related to security should be licethed in the project acauty controls for eystem dela held by DataHouse. 11/22/18: ETS pravided some guidement equirements and evelute accurity controls for eystem dela held by DataHouse. 12/2019: DUR is the clearity security requirements and evelute accurity controls for eystem dela held by DataHouse. 12/2019: DUR is the clearity security requirements and evelute accurity controls for eystem dela held by DataHouse. 12/2019: DUR is the clearity security meants and evelute accurity controls for eystem dela held by DataHouse. 12/2019: DUR is th		
System Software, Hardware and Integrations	2019.06.1701	Positive	N/A	N/A	The DataHouse team's swift and adaptive response to leave and rease minimized impact and further delays to project development.	Many members of the DataHouse team have contributed to the following successes: Source a registroment Contant Management hosting infiniteriocian adultion. The Induced particular team of the source of the sourc	N/A	N/A for positive findings.	WA for positive findings	Closed	MA	10/25/2019	Closed as this is a positive finding.
Governance Effectiveness	2019.07.PG01	Positive	N/A	N/A	The DCD Executive Sponsor is highly engaged and plays an active and visible role in guiding, monitoring, and championing the eCMS Project.	The DCD Executive Sponsor's close involvement in the project has	N/A	N/A for positive findings.	N/A for positive findings.	Clased	N/A	9/20/2019	Closed as this is a positive finding.

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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
Governance Effectiveness	2019.07.PG02	Risk	Moderate	N/A	The text of a formal executive steering committee and hange control board may limit the effectiveness of project governance.	The Dathsfuse proposel and Phojet Management Plan Aerden 1.2 mate inference to a bedress of some shares, a formal controllate was not chartered. Currently, the DCD Executive Sponsor Is assigned the authority in the Project Management Plan to approve all project charges.		Assemble and formalize an executive starting committee.	The tire and extection of committee members should believe the percentition of key stakeholders with the need for efficient decision making. "Formalise the committee mission, responsibilities, and the types and the thresholder of decisions that need committee approval in a staketing committee charter. "Consider the need or ease of creating a change control based with a subset of the committee for cartain types of decisions.		00/20/17: Acoulty decreased the severity rating from Level 2 (Moternite) Love 31 40, wh. The cANS Executive Severing Committee (ESC) was assembled and hald its finite meeting on Separations 13, 2019. Members were informed of the committee purpose, roles, and member tasks, however, the types and threndoids of decisions that meeding is scheduled for October 11, 2019. (10/25/19: The October 11, 2019 ESC meeting was effectively run by the DCD Project Sporars to discuss law (risk and it Isaawa and to align the CMS Project direction with Table 2018 and TS strategic objective. The thresholds for decisions that require committee stration were also astabilitied.	10/25/2019	Closed is the 4CMS ESC was formalized.
Governance Effectiveness	2019.07.PG03	Risk	Moderate	N/A	may fink objective evaluation of contractor partermance and contract fulfilment.	The procursment of the System Integritzor (3) for the aCMS Project was performed to JDLREDPS and reviewed by ETS. The RP and Distribution contract does not clearly authine expected deliverables. The contract does not clearly authine expected deliverables evaluation criteria to reacting deliverables, and devid deliverables interviewed and the contract contract torms in the area of fram design, risk and lease tracking (prior to finding 2018.07.PM08), interviewed to the contract contract torms in the area of fram design, risk and lease tracking (prior to finding 2018.07.PM08), interviewed to the contract torms in the area of fram design, risk and lease tracking (prior to finding 2018.07.PM08), specific exceptions or check has to to approve of deliverables their do not area this about amenatics (after to finding 2018.07.PM08) areas areas of propared carbin management plans and anglect documents and thooght they specification of the providers to the stimulet on the contract. Clear the contractions fulfill biligations to the standerd of quality the la ensure that contractions fulfill biligations to the standerd of quality the la ensure that contractions fulfill biligations to the standerd of quality the la ensure that contractions fulfill biligations to the standerd of quality the la englined.		Evaluate the need for a contract modification to defity contract terms.	•Consider including key project documents as adlewables such as requirements meangement plan and requirements traceability matrix (RTM) (select to finding 2019.07.PMIG), risk and tasse log featre to finding 2019.07.PMIG, and testing documentation. •Consider including acceptance attraits based on industry standards. For example, the acceptance actraits accel base compliance with institute at Basettell and Electronica Engineers compliance with IEE R29 for tail documentation. •Consider including measurable success metrics (refer to finding 2019.07.PCOS). •Consider including measurable success metrics (refer to finding 2019.07.PCOS). •Consider the need to actiline roles and responsibilities between DLR and DetaHouse (refer to finding 2019.07.PM07).		00/20178: CUR has decided to address this finding through updates of project plans. DataHcace has behavior an opamises to device part continuously improve project deliverables including project plans. Roles and repposite)listis have been more operly discussed and plan to be incorporated within project plans. Furthermore, success and quality matrics are being drafted within will also be an additional mathod for evaluating contextor participance and fulfilment.		Closed as DUB will address through project plan updats. The need for clarification of roles and responsibilities as well as acceptance citrate and access metrics will continue to be monitored under the 2015 07 PAG2 Secons Metrics. 2015 07 PAG2 Project Organization. 2015 07 PAG2 Project Organization 2015 07 PAG2
Governance Effectiveness	2019.07.PG04	Risk	Low	N/A	shared project assets may reduce project performance and efficiency.	Large IT projects are not a require occurrence for many bate departments. Often times project resources are assigned from within the departments that have winkable organizational and opparticitional incovinding but do not have the necessary project management experience. Having guidelines and checklish and access to project document from pars State projects would grastly benefit www experienced project taxes. Effs, as the State of Heaving 11 oversight offscore.	2019.07.PG04.R1	Initiate conversations with ETS to discuss DUR IT and project support needs and responsibilities.	Discuss what resources, guidance, and shared project seasts would be most height to DUR. Discuss what project seases DUR can provide to contribute to the development of a cantraliad project management (Itrary. "Contrider (moving the project strengt goomittee to align and clarify ETS vs. steering committee governing roles.		50/20/176: ETS began sharing beer precision and teacons learned with DLR including bating the DLR Project Manager to sprint meetings for auchore State project. TS is a member of the newly formed GLMS Executive Stearing Committee (ESG) and will use that which to share alsons learned with DLR. Additionally, DLR is forming a DLR IT Statering Committee to provide oversight to all DLR Torpicst. The DCD Executive Sponsor is a member of that DLR committee end plans to share eGMS leasens teathed and projects templates with other DLR Torpicst.	9/20/2019	Closed as discussions occurred with ETS and the risk is adequately mitigated with the planned course of action.
Benefits Reelizetion	2019.07.PG06	Risk	Low	N/A	Falure to align atautas with the cCMS Project modernization objectives may reduce the operational improvements that are achieved.	The cCMS Project's primery modernination edjective is to move to a paperties and advanced builties process. The new system is barg dealgred to alrow for electronic filling, noutries, and tracking of forms. However, current filleally compensations adultation have not been revised to require that these forms are filled electronically by law. As such, manue paper forms may continue to be abuinted by astamul users and as abilinatis, amployers, and instructions control these, 3 thrin this is not as an electronic to the standard by astamul users and as abilinatis, amployers, and instructions companies. At the development of a paper form is staged with a to begin united by astamul users in a abilinatis of the stage with a to begin united by a stamul users in the ast methods from stabilized and the legislative process to samed statulas as not process. In statula paring statula bagin as any parolible so as not to patipone or makings the realization of the benefits from the new system.	2019 07.PG06.R1	Develop a plan and thenline to amond the statwarts to adjust to project and organizational objectives.			00/20/19: In 2016, D.I.R. convenced a Working Group (MC consisting) or representatives from werbox DC-Dreistes distantiation groups. The WG proteides an evenue for DLIR to understand stateholden's concerns and a forum for the stateholden's to understand the DLIR's business process improvements including the need for stateforty mentated detection callen illings. DLR planes to drift statucary charges to timentifie allocation of site allows DLIR to protectively movies stateholden in testing production and provide stateholders the appropriate time to ready their systems for electronic filling.	9/20/2019	Closed as DUR has a plan to a fign statutes with oCMS Project objectives.
Project Organization and Management	2019.07.PM01	Positive	N/A	N/A	project lead who works collaboratively with internal statesholders.	The DUR Project Manager is hardworking and has continually demonstrated dedication to the project and an experiment to learn. Additionary, the DUR Projeck Manager has some of the necessary table leadership qualities that make the a good project manager. Her positive names and calidocores approved networks that with an experiment consers of many internal selections. This has motigated some of the communication and COM leak effect in Intelling 2013 07.7400 and 2019 07.PMISI, However, the DUR Project and there is not public amount of project measures lights to finding 2019 07.PMI 14 to properly manage the project.	N/A	N/A for positive findings.	N/A for positive findings	Closed	NVA	9/20/2019	Clowd as this is a positive finding.
Project Organization and Menagement	2019.07.PM04	Issue	High	N/A	BAFO without obtaining a written tetter of inten taneware Deat-locue and DHS. Furthemore, the aCMS Project extenses for 10 months without a formal MOU batween DUR and DHS and relations on the Deat-locue Project Spornor to lead the discussions due to her experience with DHS.	The DathAlouse BARO proposed a technical southon that planned to lengrage DHS's life IRNet environment, however, thore was an written agreement between DataKases and DHS that supports DHS intext to aligned interest and the Destination of the DataKase Project Destination with DHS were plannetly led by the DataKase Project Sponor. The CMP Regist schemark for II MPA the DataKase Project Mails data the means DHS development, an attention subtook the lating the data to the means DHS development, an attention subtook the value datament DHS development, and the DataKase has determined plant to thirdly 2018 OHS and DHS and DHS was planted at the transmitter of the Sponse datable datamentals may make to be updated. Although the CMS Project will not be use updated. Although the CMS project shift on be the updated by TS's entrophen losses for FileNet and measure y agreements to ensure that the alternative solution insule measures y agreements to ensure that the alternative solution is value and measurest softward relays.	2019 07. PMO4.R1 2019 07. PMO4.R2 2019 07. PMO4.R3	Finalite the MCU to learning DMS entryrine license for FileNet and Datage. DUR hould lead all discussions are imposibilities of windor contractor or againg agreements. Identify and complete all chical tasks prior to moning forward with an alternative solution.	2 2	Closed	00/20/19: The MOU with 015 for Datespaner Plenket license is close to being instantial. DIR reached 4 deft from DHS on September 1, 2019 and it was sent to the Attorney Centeral's office on September 17, 2019. Acculty has observed that DLR has lead the contract discussions and negotiations with AVS.	9/20/2019	Cload as the MCU who TNRS in process to threahted and tuble is seeding constrator negotiations. The recommendation to identify all critical tasks will control to be monitored under the 2019.07.PM13 Scheduls Management Pricing.

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ASSESSMENT		TVINE	ORIGINAL	CURRENT	ENDALC.	ANALYZE	RECOMPLETION ID	DECOMPLEMENTION		FINDING		CLOSED DATE	M ON THE DEARON
Project Organization and Management	2019-07.PM05	Risk	Moderate	NA	A teck of derity on Delablows's development wethodology may not allow or adequately propare stateholders to participate needly.	Interfaces is subject a modified Aglia development nethodology that is enformed to an "Wee Sourn Fait". This is consideration of the waterfail and Aglia methods that defines the full set of regularisments at the beginning faut use Aglia user soften and sprits while building the software. Based on the current project pian, the AGVS Fridpect was supposed to begin the Build stage of Hane I and transition to the Sorum methodology. Abbuilt has the American Agric Soften Soften and the transition to the Sorum methodology: Tabafalous has not an United of concerns negariting the transition to the Sorum methodology. Tabafalous has not public and concerns negariting the transition to the Sorum methodology. The arrives to the soft and the number, length, and details of the sprits. "There have not been communications with the ULB project team and stakeholdes regarding the Sorum methodology of the roles and responsibilities table and used not failed of the argulest. "Have by the bathaous project team members work remotely and are unable to work on the.		Formalite an approach for executing Sorum phases Communicate the approach for executing Sorum phases to all team members and Impacted stakeholders.	Consider Industry basit particles for Agile methydologiles such as indrospecifies, eight sensings, burndens entra and frequent user amontmations and feedback. Fassibilit he basitogi projentition and refinement process Fassibilit hurtual confreencing tools and communication protocols for goog systicities (attributed tastes members. Set the number and length of the sprints. Hughtait be projects cahelul for sprints and testign mexcanes (efferts of finding 2019 07.PM 41). Include deare and dealback procedures and roles and maportabilities for Scrum task (efferts of finding 2019 07.PMR2). Hurtuide (basit and hurdued in project tasm sectivities (refer to finding 2019 07.PMR2).	Closed	DIGPOTE: Acutive has kept the severity rothing as Lewit 2 Modersteil. Although Desthues has incorporated the Case Mengement spint schedule into the overall project schedule and provided a high-level consider of the requirement/aux archite to be accented by each sprint, roles and responsibilities still need to be darky sidented and classic Scrum model and plant to darity roles and responsibilities of Product Owners and usars, how new requirement with the approved and protottad, and ecosphana criteria during the next user review and Epic 2. The Case Management development taken follows a semi-split process and drafted an overview document of the sam's danage management practices.	10/25/2019	Closed as the Scrum methodology has been formalited annu scormavicated to the DUII #0408 Product Owners. The recommendation to communicate the methodology to all impacts adakhidden III continue to be monitored under the 2019 07. PM07 Sasanoider Communications finding.
Bustness Process Reengthearing	2019.07.PM11	Risk	Moderate	Moderate		These is no formal plane for BPR schrifts. Davahouw's exposed to BPR, the site s start with the countre state processe maps, scalarowy the process with startholden, and make updates to the processe maps. As a result of the process. Details use prodect butter state processe maps. However, Team Acculty was unable to clearly understand how processes were improved (e.g., elimination of rework toops). Business process improvement is a lay deliverable identified in the RPP and in Dissifications contract. The Destrobusce contract states that he key deliverable will be menifieded through: factor throughput of data into the the system: factor imposed through the software but the key deliverable will be menifieded through: factor throughput of data into the the system: factor imposed times to rejuscible to the RPP and contract. do not clearly identify to make system changes and colline access acchoing but you have a process improvement performance goals. The VMV recommendetors made at 2016 of 7060 kin 2018 071607140 and 2018 07.0058 R. Importing once and measureble goals and scale actioned will size access the process improvement performance goals.		Identify and track BPR opportunities in a log.	This log should be used to plan BPR and design exhibites and to develop contant for communications and training.	Closed	b)(2017): Acute) has kept the eventy rating as Lawi 2 (Moderae) is a process or tool for waining BPA hanges for Nume communications and training has not been treated. 10/25/19 and 11/22/19: BPR opportunities contribute to be discussed uning sprit exections. Network, identified opportunities are not formely tracked. 12/20/19: The Case Management user story tracker tool identifies which user stories resulted in BPR.	12/20/2019	Cload as user statute resulting in significant, BPR can be identified for communications and training.
System Software, Hardware and Integrations	2019-07-1101	baue	High	N/A	The original solution proposed by Deterorus in two RAPO to severage the existing DHS FireNet hosting Intestructure is no longer a feesible solution.	These are number of herms the DateKaue RMAC that are to longer feelblo based on the Inshibt to bereapt the addrog DATe Shi Net anvironment. Under the original aduiton. DFS would monitor and maintain the enterprise IBM FileNet environment. A DIS will have the be providing access to their IBM FileNet environment. A DIS will make the learning the second to the second second second second second premise installation to the IBM EXEM second second second and right performance of document the random over the IAM and timend Sata markets. DIR should be provided with a bactgrow solution and higher performance of document the random over the IAM and timend Sata markets. DIR should be provided with a bactgrow solution of testing solution options that includes a comparison of the atternative on performance. All backs are provided with a bactgrow to the performance of the IBM EXEM second second second second to IRE to resease the total solution considering all updated technological opportunities evelopies that includes a comparison of the atternative on performance. It is in an opportunity for both DataTakaa and IRE to resease the total solution considering all updated technological opportunities evelopies (and integriting all updated technological opportunities evelopies that includes a comparison of the atternative due diligence is performed before moving forward in the pelgical in order to evold harms pelgical diligence before meaning any dodisions. It is in portant to the through energies and docubion option mark opperditional end setabulater requirements.	2019.07.1T01.R2	Inside other total solution electronatives for an alternative solution. Prepare a comprehensive technical enagels of the alternative solution.	Consider southors that could include other technical applications tect could uline affores chalos of includes guidement tools, provide a chapper solution for the longer sam, and faster implementation. Consider the holiconfor website which lists 20 compatible attractives to 10 Pineter to consideration: www.g2 com/products/lim-filemenconter- menager/compatibility filewise for consideration: www.g2 com/products/lim-filemenconter- menager/compatibility filewise to consider a solution in more autinative choices going forward. Include the limage of the alternative solution to project cost, schedule, resources, security, maintanance and operations, system requirements, and regulate of theateructure to ensure a complete and uccessful working out/on. Coardiographic policies, and tringg. Considerations for impact on project cost includes costs related to the following: Information, and testapes management licensing Information technical potentials. Data costs, sciently, and destabes management formating. Proceeding technologies Information technical potentials. Data costs, observing and costs of FileWet enderthers audition, reaves and orgonic costs of FileWet enderthers audition, instaliation, and configuration of softwares and inference. Coupsing matrixetures and orgonics (patching, updates) Performance of accurity assessments Comparison gaster accurity assessments		atomsteis solution. The proposed AVS solution was compared to another cload solution. Microsoft Aura: In respects to cost and performance. Deal-toxae reviewed the listing of contant management solutions provided by Acatily and concluded that IBM FileNate was the bast solution for this project. however, no formal analysis was prepared. DIR approved AVS as the replacement hosting infrastructure solution effectively remediating the inability to leverage that DISE Follow environment results. Acculty had also necommended that a comprehensive tachnical analysis be prepared on the replacement solution, however, DIR decided not to homaly document the relays as solver econforciable with the selection based on reacing of AVS withopapers. The information based on reacing of AVS	9/20/2019	Cload as a repletement solution was opproved by UK. As a compensative many analysis was not prepared and them is still a need for additional definition may and postal a spacet of the repleament solution. ANY security under finding 2019 07.107. ANY Security under finding 2019 07.10412. and AWS costs under finding 2019 07.70412.
Design	2019.07.1703	lssue	High	N/A	The Context Management design documents were based on incomplete, insecurate, and outdated requirements.	Case Meagement Is currently in the design phase and design document have not been provided. The Context Meragement Design (exclon 1.0) approved by DLR on Mey, 6, 2019. The recert DRS development with engular design documents to be updated with an elitometic Context Management hosting limitativitars advices lasticute. However, even prior to this development, the Context Meragement design documents were drefted based on regularements documentation that Is incomplete fielder to finding 2010/JMHG1. The exclaminant advicements adviced analytic be menditated immediately and the design documents updated accordings.		Update the Content Management design documents.	Consider updates for marked requirements documents (effort to Inding 2016 UT / 1018 and for the stresheattle Contract Nanagement hosting infrestructure solution (refer to finding 2018.07.1101)	Closed	00/20/19: Acaty docused the evently reting from Level 1 (Figs) to Level 2 (Moderski). Detrificious opported the Contert Management Dargin Document to Include additional, more detailed requiraments. A noted above at finding 2018/07/PMID, DataHouse Is in the process of updeting the inquirements documentation to Include all requirements from the DataHouse contract. 10/20/19: The Content Management Daign Document feersion 1.2] was updeted to refine or add nequirements.	10/25/2019	Closed as the Content Menagement design documents are regularity updated as changes to requirements are made. The completeness of the design with respect to context requirements with contenue to be monitored under the 2017.07.PM10 requirements finding.

ASSESSMENT	FINDING ID	TYPE	ORIGINIAL SEVERITY	CURRENT	FINDING	ANALYSIS	RECOMMENDATION ID	RECOMMENDATION	SUPPLEMENTAL RECOMMENDATION	FINDING	FINDING STATUS UPDATE	CLOSED DATE	CLOSURE REASON
Deta Conversion	2019.07.1104	Risk	Mcderete	N/A	plen that is based on incomplete, inccurate, and ucidated requirements may impact the deta migration design process and require additional effort to correct.	Case Management is correctly in the design phase and data conversion and Migraton (version 0.0% document was drafted by DeaHfocase on June 3.2019 but was not by the approved by DLR. The document was drafted based on requirements document was drafted by DeaHfocase on June 1990/07.PMIO; Furthermons, the Context Management Charter to Indige 1990/07.PMIO; Furthermons, the Context Management Charter Migration (version 0.0% document included a risk that changes to the requirements after a correction point in the project may acuse additional affort to re-flector the migration design process. As data convestion is the process of converting data than one source to at the system requirements of and/ork. It is inportant the data conversion plan is based on accurate system requirements. The requirements detained with the fast to fund paral p17.PMIO] should be remediated immediately and the data conversion plan updated accordingly.		Updet the Content Management dets conversion plan.	Consider updates for revised requirements documents (refer to finding 2016.07.PM10).		00/2/01/21: Acculty has kept the severity rating as Lawi 2 (Modertel). The Content Mesagement Conversion and Migration Pan forefuen 1.1) was updated on 09/05/19 before the Context. Management Design Documers (Weinlon 1.1) was updated on 09/07/16 to Indude additional design requirements. Changes to requirements should be evaluated for the Impacts on the conversion and migration plans and the detailed taxonomy mapping. 110/25/19: DataHouse evaluated the new requirements and determined that them is no Impact to the high level Context. Management conversion requirements included in the Conversion and Migration Plan. 11/2/21/9: Acaulty reviewed the taxonomy mapping with the primary stakeholder and confirmed that changes in system requirements with note have a significant impact on the Context. Management data conversion plane as the largey system has limited dets fields that ere convertion plan.		Closed as changes in system requirements on ot espece to significantly import Containt Management data conversion plan

## Appendix E: Prior IV&V Reports

AS OF DATE	DESCRIPTION
06/30/19	Initial On-Site IV&V Review Report
09/20/19	Monthly On-Site IV&V Review Report
10/25/19	Monthly On-Site IV&V Review Report
11/22/19	Monthly On-Site IV&V Review Report
12/20/19	Monthly On-Site IV&V Review Report



## Appendix F: Comment Log on Draft Report



## Appendix F: Comment Log on Draft Report

DUR D	CD eCMS P	roject: IV&V Document Comment Log		
A CON		Acuity CERTIFIED PUBLIC ACCOUNTANTS		
ID #	Page #	Comment	Commenter's Organization	Acculty Resolution
1	11	During the February 10, 2020 meeting to walkthrough the January 2020 IV&V Monthly On-Site Report Draft, a verbal request was made to correct the reference to "DataHouse's Application Security Management Plan" on page 11.	DataHouse	Accuity changed the reference on page 11 from "DataHouse's Application Security Management Plan" to "DataHouse's security documentation" and updated the status for the related finding 2019.07.IT07 in Appendix D.
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