Sequoia Project Content Testing Pilot

Didi Davis

Director Testing Programs
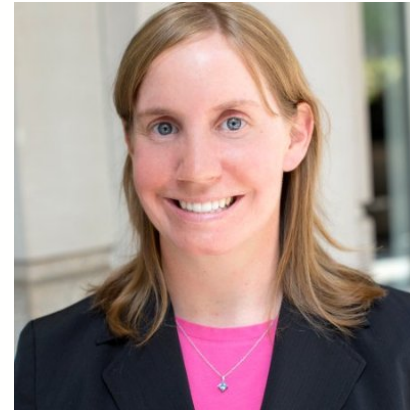
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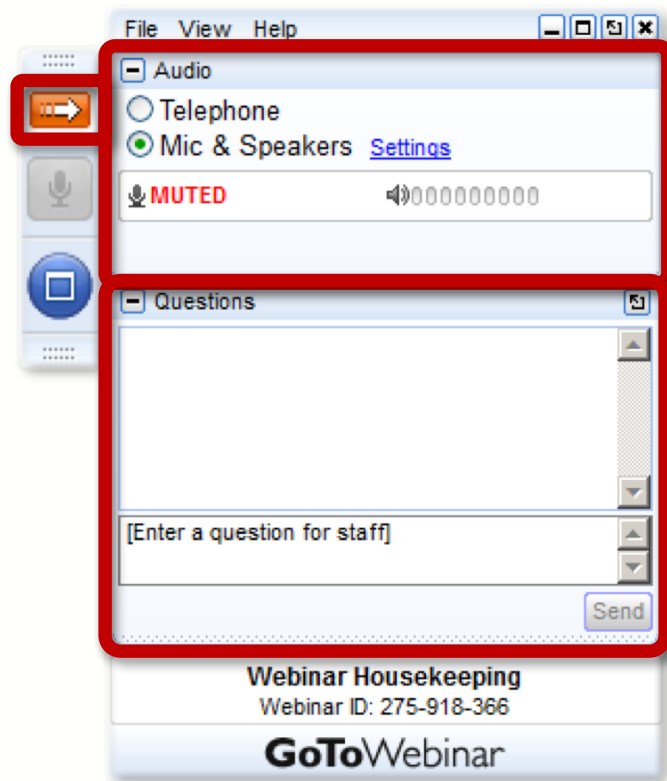
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Meet Today's Presenters

Didi Davis

Director, Testing Programs
The Sequoia Project

Dawn Van Dyke

Director, Marketing
The Sequoia Project

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Submit questions and comments via the Questions panel

Note: Today's presentation is being recorded and will be provided within 48 hrs

Problems or Questions? Contact Dawn Van Dyke

dvandyke@sequoiaproject.org or 703.864.4062

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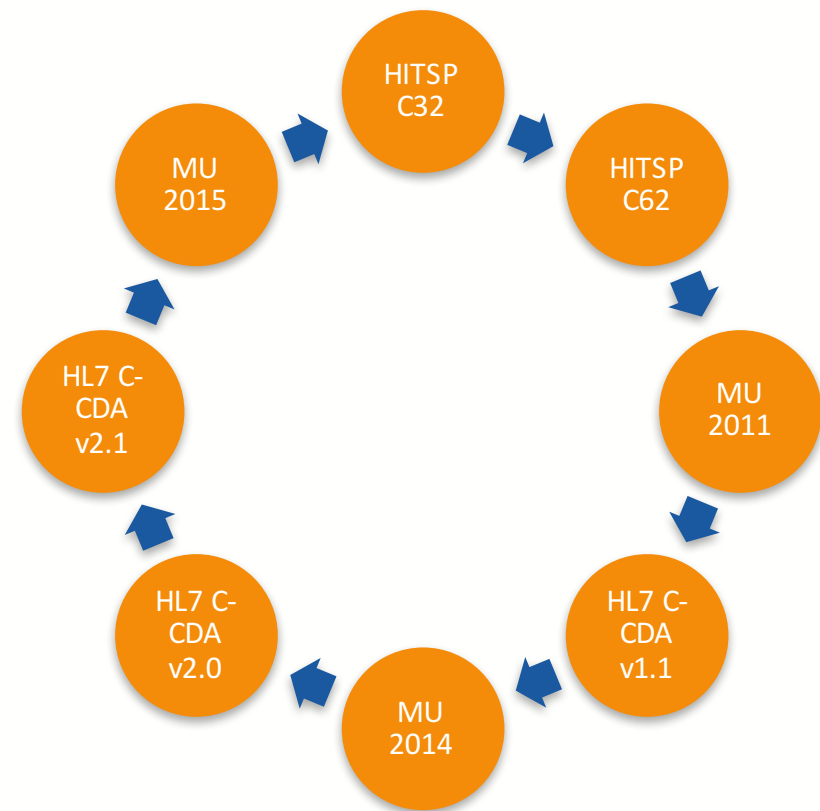
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Agenda

- Background
  - eHealth Exchange
  - The Sequoia Project Testing Workgroup
  - What is an Enhanced Content Testing Program?
- New Content Testing Pilot Details
  - Enhanced Content Testing Documentation Package
  - Content Testing Process
  - Pilot Content Testing Tooling
  - Benefits for Content Testing Pilot participants
- Demonstration
- Questions and Discussion

eHealth Exchange Content Testing Evolution

- No Content Testing Required: If Participant or Vendor's architecture is certified for MU 2011 editon or 2014 edition
- If not MU certified: Required to test one or more of the following:
  - The Basic C32 (ONC 2011 Edition)
  - The Bridge C32
  - The Consolidated CDA (C-CDA) (ONC 2014 Edition)
- In June 2015, Coordinating Committee approves launch of Testing Workgroup with initial focus on Content Testing

HITSP C32 → HITSP C62 → MU 2011 → HL7 C-CDA v1.1 → MU 2014 → HL7 C-CDA v2.0 → HL7 C-CDA v2.1 → MU 2015 → HITSP C32
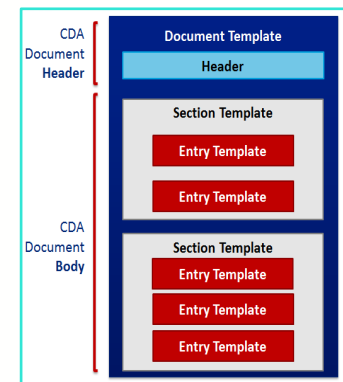
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Testing Workgroup (TWG) Background & Overview

1. Testing Workgroup approved by the eHealth Exchange Coordinating Committee (CC) on 6/16/2015

2. Testing Workgroup Launched 6/30/2015 – 2 co-chairs

3. Testing Workgroup Charter Approved 7/21/2015

4. Content Test Tooling Resources Inventory & Demonstration completed by 10/31/2015

5. Draft Enhanced Content Testing Documentation Published 11/5/2015

6. Industry Content Testing Tools Evaluation and Scoring Completed 1/5/2016

7. Public Comments resolved and Enhanced Content Testing Documentation Re-Published April 11, 2016

8. Content Testing Pilot April – June 2016
   - https://ehealth-exchange-testing.wikispaces.com/eHealth+Exchange+Testing+Home#Home

What is the Enhanced Content Testing Program?

- Focused on HL7 Consolidated CDA (C-CDA) – Continuity of Care Document (CCD)

- Tests compliance for base HL7 C-CDA CCD plus Meaningful Use (MU) requirements

- Enhanced test cases and procedures that align with the 2015 Edition MU test data and methods

  - https://www.healthit.gov/policy-researchers-implementers/2015-edition-test-method

- Designed to enable interoperability and assure specification compliance

  - will **cover HL7 C-CDA CCD r1.1 and r2.1 with an overlay of the 2015 Meaningful Use requirements** during the trial period through June 2016.

- Implementation-hardened by years of operations and documented pain points that continue to be coordinated with HL7 for inclusion in future documentation:

  - Improved Scorecard Rubrics
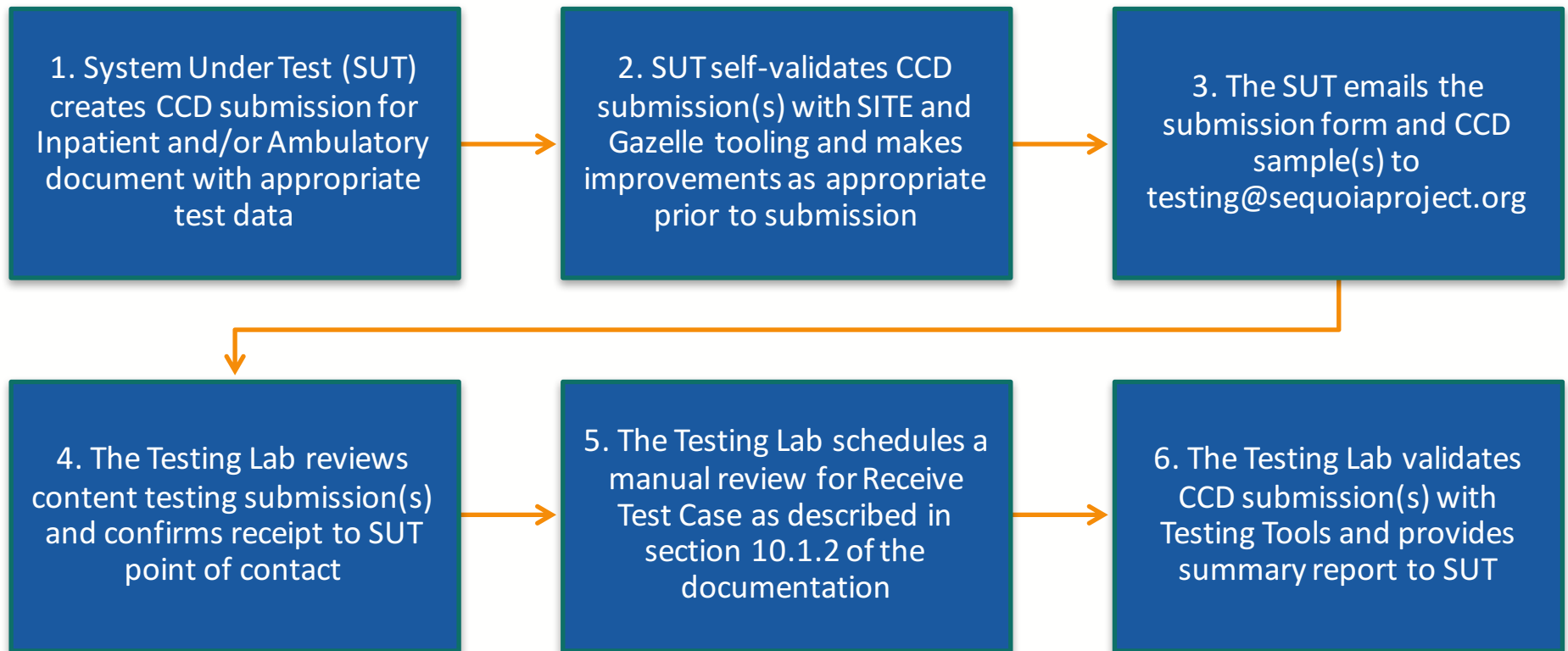 - Future HL7 C-CDA Companion Guide

Enhanced Content Testing Documentation Package

Content Testing Pilot April – June 2016

- https://ehealth-exchange-testing.wikispaces.com/Content+Testing+Pilot+2016

    1. 2016_04_11_C-CDA_CCD_Test_Cases (Word Document)
    2. CCD_C-CDA_MU_eHEX_Content_Checklist-2016-04-11 (Excel Checklist)
    3. Test Data Files
        1. **TC: CCDA-CCD-CREATE-0001.0 HL7 C-CDA CCD record – create**
        2. **TC: CCDA-CCD-RECEIVE-0001.0 HL7 C-CDA CCD record – receive**
    4. Pilot Content Testing Submission Form

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Content Testing Process

1. System Under Test (SUT) creates CCD submission for Inpatient and/or Ambulatory document with appropriate test data	**2. SUT self-validates CCD submission(s) with SITE and Gazelle tooling and makes improvements as appropriate prior to submission**	**3. The SUT emails the submission form and CCD sample(s) to testing@sequoiaproject.org**
4. The Testing Lab reviews content testing submission(s) and confirms receipt to SUT point of contact	**5. The Testing Lab schedules a manual review for Receive Test Case as described in section 10.1.2 of the documentation**	**6. The Testing Lab validates CCD submission(s) with Testing Tools and provides summary report to SUT**

Submit HL7 C-CDA CCD sample(s) and submission form to testing@sequoiaproject.org

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Pilot Content Testing Tooling

ART DÉCOR/GAZELLE OBJECTS CHECKER
- Hosted by IHE Services as part of the IHE International Scheme Testing
- Tooling was piloted in April 2015 and is ISO 17025 Compliant for Conformity Assessment
- Covers only the HL7 C-CDA CCD R1.1 and R2.0 versions presently
- Found to report on warnings and errors not found by other testing tooling
- Testing for version HL7 C-CDA CCD 2.1 will be added to this tooling during the pilot

DIAMETER HEALTH
- Focused on using C32 CCDs and C-CDA 1.1 documents
- CCD Analyzer tool has 200+ rules that score C32/C-CDA for semantic and clinical completeness and syntax
- Emphasis beyond simple schema/schematron rules available in in the NIST ETT tool
- This tool is proprietary, but Sequoia staff will provide the pilot participants a report to include feedback from this tooling

SITE: STANDARDS IMPLEMENTATION & TESTING ENVIRONMENT – C-CDA SANDBOX
- A centralized collection of tools and resources
- Assists the developers and implementers of Health Information Technology standards to achieve interoperability
- Only the Consolidated CDA (C-CDA) Sandbox will be evaluated.

Ready to Join the Content Testing Pilot/Program?

Who can Participate?

- The Sequoia Project Founding Members
- The eHealth Exchange Anchor Participants
- eHealth Exchange Participants
- eHealth Exchange Product Validated Systems

How do I Join?

Visit the Testing Workgroup wiki to download testing documentation and the submission form for participation in the pilot before June 30th, 2016.

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Free Benefits for Content Testing Pilot Participants

- ✓ Get a head start on future required content testing

- ✓ Learn current performance against future requirements

- ✓ Receive assistance interpreting the free Content Testing Pilot report and scorecard

- ✓ Increase the amount of data exchanged with partners and improve the clinical content of the discreet data exchanged

- ✓ Provide feedback on production testing requirements and scores in collaboration with HL7 for inclusion in future documentation

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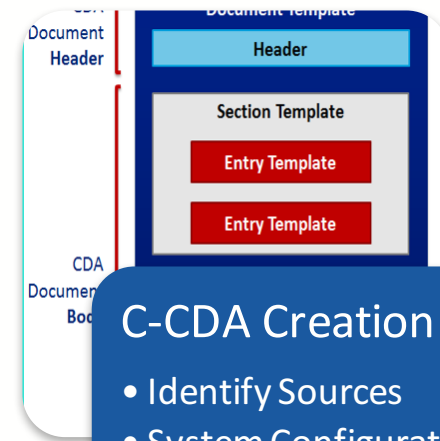
Process for Creating Consistent & Robust HL7 C-CDAs

Content Priorities

- Clinicians
- Business Office
- Others

Data Mapping	SUT	HL7 C-CDA CCD	
Patient Gender	0	UN	"Administrative Gender" value
	1 (="Male")	M	
	2 (="Female")	F	
"Continuing"	1 (-"Yes")	active	"Problem Observation"
	2 (="No")	inactive	

Data Mapping

- SDO Requirements
- Vendor specific data model overlay
- Semantic Interoperability Transformation

Document Template

Header

Section Template

Entry Template

Entry Template

C-CDA Creation

- Identify Sources
- System Configuration
- Value Sets
- Internal/External transformation

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Content Testing Workgroup - Milestones

Milestone Descriptions	Target Date	Status
Publish 1st Draft Enhanced Content Testing Documentation	11/15	Completed
Industry Tooling Self Scoring and Assessment	01/16	Completed
Publish Content Testing Documentation Package	04/16	Completed
Pilot Trial Period (April – June 2016)	06/16	In Process
Gather Tooling Improvements	06/16	In Process
Testing Workgroup to Summarize Testing	07/16	Not Started
Testing Workgroup Provides Feedback to HL7/ONC	Ongoing	Not Started

Content Testing - Formal Change Process Milestones

Approval Milestones	Target Date	Status
Present Draft to CC for review:	06/16	Not Started
Participant Input: - Post draft to eHealth Exchange Wiki - Review updates with Specification Factory - Review updates on Informational Call	07/16	Not Started
Participant Input (Webinar to review updates):	07/16	Not Started
CC Approval:	08/16	Not Started
30 day public comment notice to participants:	08/16	Not Started
Objection Period Ends:	09/16	Not Started
Target Effective Date:	10/16	Not Started

Information and How to Join the Testing Workgroup

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eHealth Exchange™

Sequoia Project Testing Workgroup
Call for Participation

Develop
testing requirements to test and validate Health IT Modules

Create
review and approve testing documentation, checklists and Use Cases

Determine
interoperability testing requirements to enable robust testing of information exchange among participants

Join Now:

https://ehealth-exchange-testing.wikispaces.com/Communications+%26+Calendar

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