

Sequoia Project Content Testing Program Overview Didi Davis Director Testing Programs

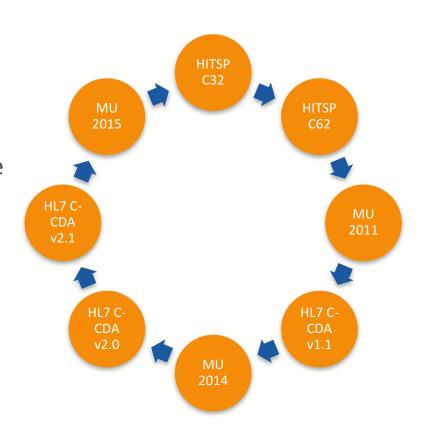
eHealth Exchange





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





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-exchangetesting.wikispaces.com/eHealth+Exchange+Testing+Home#Home



Industry-wide Content Pain Points



Optionality:

More than one way to do things and inconsistent implementations across vendors



Terminology:

Inconsistent terminology usage



Specification Ambiguity



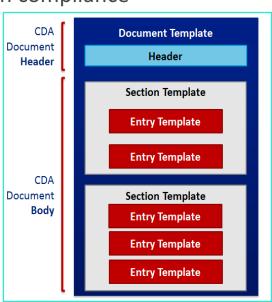
Complexity:

The C-CDA standard is difficult to understand and consume and is lacking in clearly documented examples



What is the Enhanced Content Testing Program?

- Focused on HITSP C32/CCD, HL7 Consolidated CDA (C-CDA) R1.1 and R2.1
 - Chapters 1-4 provide informative excerpts for conformance
- Enhanced Testable Assertions (Chapter 5)
- Meaningful Use (MU) requirements/Transitions of Care (Chapters 6 & 7)
- Enhanced test cases and procedures (Chapter 8)
- Designed to enable interoperability and assure specification compliance
- Implementation-hardened by years of operations and documented pain points that continue to be coordinated with HL7 for inclusion in future documentation:
 - HL7 Implementation Guides/Companion Guides
 - Chapter 3
 - Improved Scorecard Rubrics
 - (Quantitative Scoring Criteria)
 - HL7 C-CDA Companion Guide for MU Guidance for R2.1
 - Relevant & Pertinent Documentation Publication
 - Examples Task Force Repository





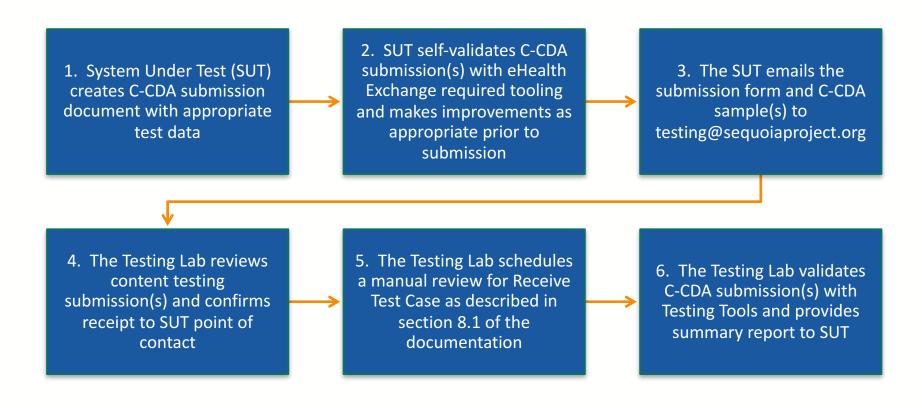
Enhanced Content Testing Documentation Package

- https://ehealth-exchangetesting.wikispaces.com/Documentation+for+Comment
 - 1. 2016_11_15_Sequoia_C-CDA_Content_Test_Cases.pdf
 - eHealth_Exchange_Content_Testing_Survey_Submission_For m_V2.0.pdf
 - 3. 2017_eHEX_Content_Test_Data_CREATE.pdf
 - 4. RECEIVE Test Files
 - MU_HITSP_C32C83_4Sections_RobustEntries_NoErrors.xml
 - 170.315_b5_ccds_amb_ccd_r11_sample2_v1.xml
 - 170.315_b5_ccds_amb_ccd_r21_sample1_v1.xml





Content Testing Process



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



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 HITSP C32/CCD, HL7 C-CDA CCD R1.1 and R2.1 versions
- Found to report on warnings and errors not found by other testing tooling



DIAMETER HEALTH

- Focused on using C-CDA documents
- CCD Analyzer tool has 280+ rules that score 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 and ONC has an open source Scorecard option available



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
- Consolidated CDA (C-CDA) Sandbox will be evaluated
- C-CDA Scorecard



Enhanced Content Testing - Milestones

Milestone Descriptions	Target Date	Status
 Participant Input Post documentation to eHEX wiki Review updates with Spec Factory 	11/15/16 11/17/16	In Process
Present to CC for review/approval	11/15/16	In Process
Informational Call (Review documentation)	12/02/16	Not Started
Publish Enhanced Documentation for 30 days	12/02/16	Not Started
30+ day Objection Period Ends	01/09/17	Not Started
Target Effective Date	01/10/2017	Not Started
Industry Tooling Assessment/Implementation	January 2017	Not Started
Testing Workgroup Feedback to HL7/ONC	Ongoing	Ongoing

Content Testing Future Timeline

- Public Comment of Updated Documentation through December 2016
- Testing Tooling to be chosen for Production Content Testing by January 2017
- Production Content Testing to begin January 2017
 - All New participants will be required to test Content
 - Existing Production Participants will have 12 months to test content
 - Errors Encountered with Initial testing will have to be corrected within 18 months of initial testing report

Questions?

