

eHealth Exchange Enhanced Content Testing Program Launch

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Agenda

- Background
- New Content Testing Program Details
 - Enhanced Content Testing Documentation Package
 - Content Testing Process
 - Content Testing Tooling
 - Enhanced Content Testing Milestones/Timeline
- Updates for Validation Plan for Qualified Technology Solution
 - QTS to allow for Basic, Intermediate, Advanced levels
- Questions and Discussion



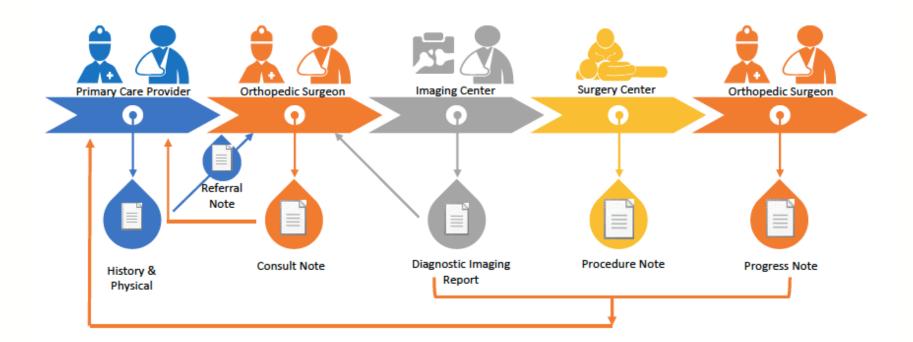
Enhanced Content Testing - Milestones

Milestone Descriptions	Target Date	Status
Present to CC for Review/approval	11/15/2016	Completed
Participant Input (Post draft to eHealth Exchange Wiki)	11/15/2016	Completed
Participant Input Informational Call (Review documentation)	12/02/2016	Completed
30 day notice to Participants	12/02/2016	Completed
30+ day Objection Period Ends	01/10/2017	Completed
Effective Date	01/11/2017	Completed
eHealth Exchange Enhanced Content Testing Program Launch	02/05/2018	Completed
Testing Workgroup Feedback to HL7/ONC	Ongoing	Ongoing



Use Cases - C-CDA: Exchanging the Patient's Story

- Today, most of the clinical data exchanged by systems leverages ONLY the CCD
- Many documents are not created by a human but by a machine on demand when queried. Data should be exchanged using appropriate document types.



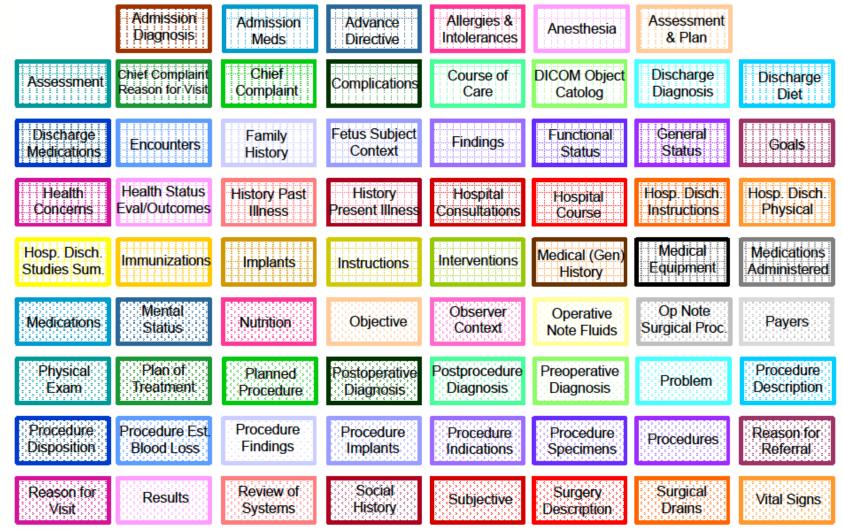
http://www.himss.org/library/c-cda-documents-building-blocks-meaningful-exchange



Why is using the right type of document important?

- Each CDA Document is designed to address a specific purpose
 - Use Cases should be reviewed to determine appropriate documents for use to support optimal patient care
 - Documents need to fit the situation
 - Share information that is relevant and pertinent
- Establish the right context for the information being shared
 - Information about multiple encounters
 - Information about a single encounter
 - Information about a service(s) within an encounter
 - Information that is related to a specific order
 - Patient generated information vs. Clinician or System generated data





http://www.himss.org/library/c-cda-documents-building-blocks-meaningful-exchange



REQUIRED:

Allergies &

Intolerances

Assessment

Medications

Problem

Reason for

Referral

Results

Transfer Summary

OPTIONAL:

Admission Diagnosis

Payers

Allergies & Intolerances

Medications

REQUIRED:

Problem

Procedures

Results

Social History

Vital Signs

CCD

OPTIONAL:

Advance Directive

Payers

Encounters

Plan of Treatment

Immunizations

Family History

Functional Status

Medical Equipment

Mental Status

Nutrition

Meds

Advance

Directive

Assessment

& Plan

Course of

Care

Discharge

Diagnosis

Encounters

Admission

Functional Status

Status

History Past

Illness

History

Present Illness

General

Physical Exam.

Procedures

Review of

Systems

Social History

Immunizations

Medical Equipment

> Mental Status

Family History

Nutrition

Vital Signs

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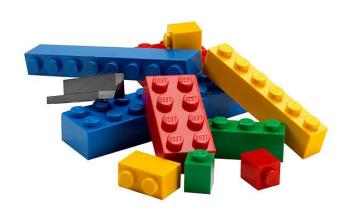
C-CDA R1.1 (9 Types) and R2.1 Document Types (12 Total)

C-CDA R1.0/R1.1

- Consultation Note
- Continuity of Care Document (CCD)
- Diagnostic Imaging Report
- Discharge Summary
- History and Physical
- Operative Note
- Procedure Note
- Progress Note
- Unstructured Document

New as of C-CDA R2.0/R2.1

- Care Plan
- Referral Note
- Transfer Summary





Industry-wide Content Pain Points



Optionality:

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



Terminology:

Inconsistent terminology usage



Specification Ambiguity



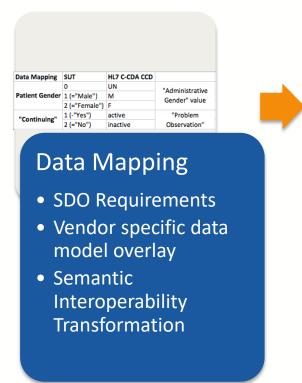
Complexity:

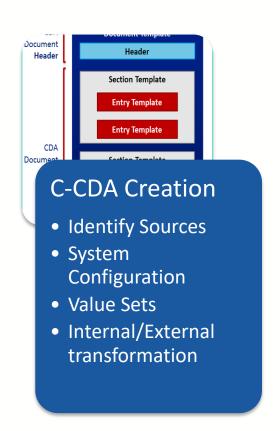
The C-CDA standard is difficult to understand and consume and is lacking in clearly documented examples



Process for Creating Consistent & Robust HL7 C-CDAs









Enhanced Content Testing Documentation Package

- Website Page for New Program:
 - http://sequoiaproject.org/ehealth-exchange/testing-overview/contenttesting/
- Wiki Page for Current Documentation
 - http://ehealth-exchangetesting.wikispaces.com/Documentation+for+Content+Testing+Program
 - 2018-02-05-Content-Testing-Package.zip
 - ► eHealth Exchange Content Testing Guide 2018 Version 1.0
 - Content Testing Tools User Guide 2018 Version 1.0
 - > RECEIVE Test Files VENDORS ONLY not required for Participants
 - 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





Validated Product Vendors – Required Testing

- All current Validated vendors will be required to test in 12 months from February 5, 2018
 - Create Test Cases (Using Vendor Supplied Test Data No PHI please)
 - Receive Test Cases (HITSP C32, R1.1 and R2.1 Documents)
- New Vendors seeking Product Validation will be required to provide one or more content samples as follows:
 - All Vendors will be required to provide samples for testing for each version of HL7 specification they support (HITSP C32, HL7 C-CDA R1.1 or R2.1
 - All Vendors will be required to provide samples of each document type they support for their customers on an ongoing basis as new documents are added (CCD, Discharge Summary, Progress Note, etc.)



Participant Content Testing Requirements

- All current Participants will be required to test within 12 months from February 5, 2018
 - Create Test Cases (Using Participant specified Test Data no PHI)
- New Participants seeking to onboard will be required to provide one or more content samples from each Document Source in their community:
 - All Document Sources will be required to provide samples for testing for each version of HL7 specification they support (HITSP C32, C-CDA R1.1 or HL7 C-CDA R2.1
 - All Document Sources will be required to provide samples of each document type they support in production on an ongoing basis resulting in continuous testing (CCD, Discharge Summary, Progress Note, etc.)



Content Testing Tooling

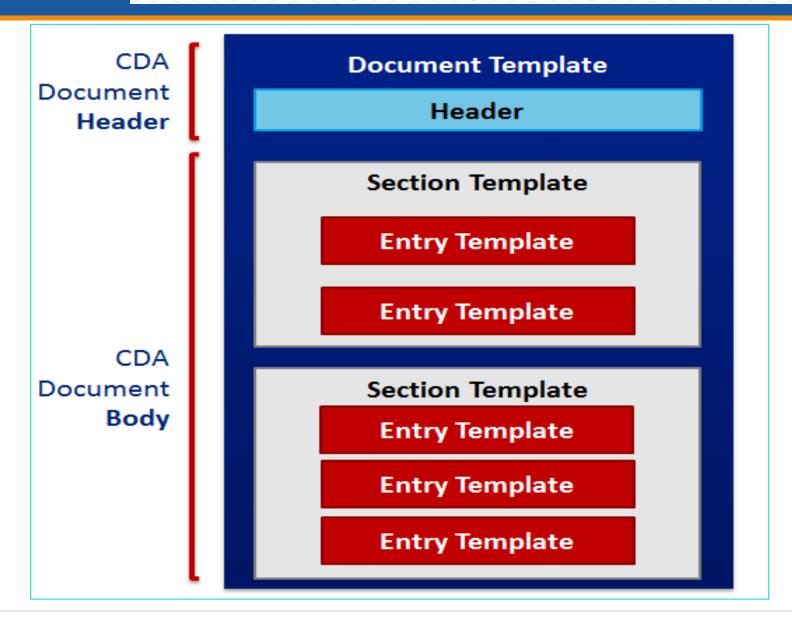




ART DÉCOR/GAZELLE OBJECTS CHECKER

- •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 (https://gazelle.ihe.net/cda/cda-basic-req.pdf)
- •More information on the tooling can be found in Appendix B of the eHealth Exchange Content Testing Guide 2018 v1.0







Content Testing Survey/Application

- eHealth Exchange Content Testing Survey / Application form
- Required to gain access to tooling
- One form per organization identifying all users to be added for testing
 - Name, email, phone
- Asks for all source systems expected to be tested
- Asks for additional details useful for trading partners to know
 - Some details may be published in the eHealth Exchange Directory in the future



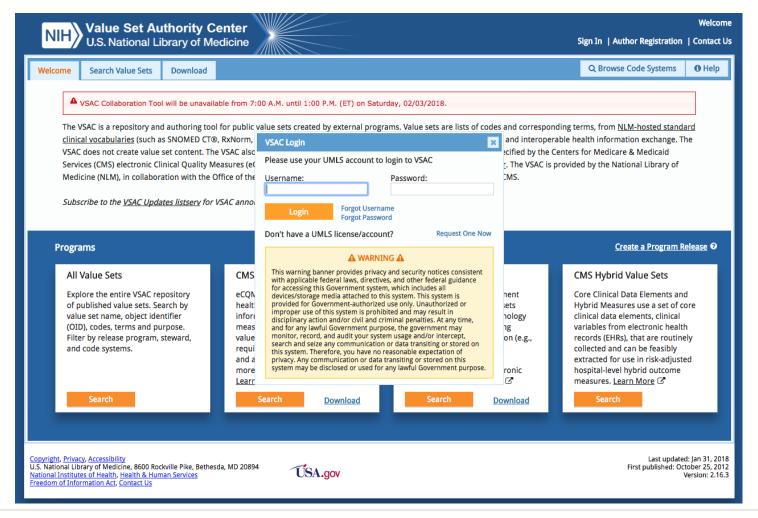
Process to Report Questions, Issue, Defects

- Email one question/issue/defect per email to
 - testing@sequoiaproject.org
 - Provide as much information as possible including:
 - Screenshots
 - Testing Permanent Link with Issue
 - Reference details for specification questions/issues



Value Sets https://vsac.nlm.nih.gov/

Requires UMLS license/account









Questions? testing@sequoiaproject.org

