Best Practices with C-CDA

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Today’s Outline

- Where do I find the standard and C-CDA experts?
- Where do I ask questions about the standards?
- Where can I learn more about the CDA standard?
- What are the changes between C-CDA 1.1 and 2.0?
- What are the changes between C-CDA 2.0 and 2.1?
- Where can I find samples for sections used in C-CDA?
- Where can I find the value sets (codes) used in C-CDA?
- Where do I post issues I’m having with the standard?
- How do I help make it a better standard?
Where do I find the standards?

- Health Level Seven International
  - HL7 standards are now licensed at no cost.*
  - Simply create an account or become a member to download the standards at HL7 International.

*Note: Some restrictions apply on how the standards may be used and distributed.
Where are the C-CDA Experts?

- One of the best locations to look, is the Structured Documents Work Group at HL7.
  - Home of the CDA and C-CDA Standards, this volunteer group created these standards and continues to work on them.
  - HL7 List Server - Structured Documents
  - Conference calls – Thursday at 10:00 AM Eastern
Current SDWG work

- Items under ballot reconciliation
  - Goto: http://www.hl7.org/ctl.cfm?action=ballots.home

- Recently published
  - C-CDA Release 2.1

- Future
  - CDA on FHIR
  - C-CDA on FHIR
  - Personal Advance Care Plan Document
If I have questions about C-CDA?

- There are a number of options:
  - HL7 provides a Help Desk Service
    - Access to the Help Desk is free to HL7 members and available by subscription to non-members.
  - Another option is the HL7 List Serv
    - Access to the list serv is free, but answers represent individual member opinions.
  - Working Group Meetings
    - Direct access to the experts.
To learn more about C-CDA?

- There are a number of groups that provide training on CDA and C-CDA.

- I like to recommend the HL7 Training Options
  - Working Group Meetings – 4-8 CDA Courses
  - Workshops on MU & C-CDA – 3 times a year
C-CDA 1.1 Vs. C-CDA 2.0

- **C-CDA R1.1 contents:**

  1. US Realm Header V1.1
  2. Continuity of Care Document (CCD) V1.1
  3. Consultation Notes V1.1
  4. Discharge Summary V1.1
  5. Diagnostic Imaging Reports (DIR) - US Realm V1
  6. History and Physical (H&P) V1.1
  7. Operative Note V1.1
  8. Procedure Note - US Realm V1
  9. Progress Note V1.1
  10. Unstructured Documents V1.1
C-CDA 1.1 Vs. C-CDA 2.0

- C-CDA R2.0 contents:
  1. US Realm Header V2
  2. Care Plan V2
  3. Continuity of Care Document (CCD) V2
  4. Consultation Notes V2
  5. Discharge Summary V2
  6. Diagnostic Imaging Reports (DIR) - US Realm V2
  7. History and Physical (H&P) V2
  8. Operative Note V2
  9. Procedure Note - US Realm V2
  10. Progress Note V2
  11. Referral Note V2
  12. Transfer Summary V2
  13. Unstructured Documents V2
  14. US Realm Header - Patient Generated Document V2

See Table 5: High-Level Change Log in C-CDA Vol1 – Intro - Page 44
C-CDA 2.0 Vs. C-CDA 2.1

- No new document templates
- Developed to update C-CDA R2 to support “on-the-wire” compatibility with R1.1 systems
- New versions of templates to provide compatibility for software that supports C-CDA R1.1 templates
Where can I find samples?

- There are some samples in the C-CDA IG, however there are many more provided by the CDA Example Task Force!
  - With currently 40 sample sections and with more under development


  - Credit to Brett Marquard for leading the charge!
Where can I find samples?

1. Active Problem
2. Allergy to Drug Class
3. Allergy to Specific Drug
4. Antibiotic Administered with Normal Saline (i.e. in hospital)
5. Coverage Activity referencing the holder's employer
6. Current Smoker in Smoking Status
7. Drug intolerance with multiple reactions (codeine)
8. Drug intolerance with multiple reactions (epinephrine)
9. Family History; generic history (not scoped to individuals)
10. Family History; two individuals with the same relationship to the patient
11. Food allergy (Egg)
12. Former Smoker in Smoking Status
13. Hospital Discharge Encounter with Billable Diagnoses
14. Never Smoker in Smoking Status
15. No Information Problems Section
16. No Information Specific Entry within a Section that requires entries
17. No Known Allergies with Author Timestamp
18. No Known Medication Allergies with Author Timestamp
19. No Medications
20. Normal Family History; Father deceased with conditions; Mother alive with no conditions
Where can I find samples?

21. Normal Family History; Father deceased with conditions; Mother alive with no conditions
22. Panel of Vital Signs in Metric Units
23. Panel of Vital Signs in Mixed Metric/Imperial Units
24. Patient Prescribed Medication Every 4-6 Hours
25. Patient prescribed oral medication QID PRN without precondition specified
26. Patient Reported Medication without Reported Brand/Dose
27. Patient with No Known Problems
28. Problem which has been resolved/completed
29. Procedure Activity Act Example in Procedures Section
30. Procedure Activity Procedure Example in Procedures Section
31. Procedures Activity Observation Example in Procedures Section
32. Propensity to adverse reaction to substance (Latex)
33. Result panel with the display of two ordinal values of negative/positive
34. Result Which Requires Translation for its Unit Represented in UCUM
35. Result with a pending component
36. Result with an unstructured string as the value (e.g. urine color)
37. Result with greater than a specified value
38. Result with less than a specified value
39. Single Administration of Medication (at Single Point in Time)
40. Unknown Patient Immunization Status
Where can I find the value sets?

- All value sets are identified in the C-CDA standard, but they will soon be available via...

  The US National Library of Medicine’s Value Set Authority Center or “VSAC”

  - VSAC will provide downloadable access to all official versions of vocabulary value sets referenced by the C-CDA.
Where to post issues?

If you find an issue with C-CDA IG, you can post them on the HL7 DSTU Comment Page.

<table>
<thead>
<tr>
<th>Name</th>
<th>HL7 Implementation Guides for CDA Release 2: IHE Health Story Consolidation, DSTU Release 1.1 - US Realm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Period Begin</td>
<td>Jul 23, 2012</td>
</tr>
<tr>
<td>Period End</td>
<td>Jul 24, 2015</td>
</tr>
<tr>
<td>Days until Close</td>
<td>114</td>
</tr>
<tr>
<td>Description</td>
<td></td>
</tr>
</tbody>
</table>

Reviewsing Comments
Click on a comment below for more details and edit options. Click here to Create a Comment.

<table>
<thead>
<tr>
<th>ID</th>
<th>Date Added</th>
<th>Commenter</th>
<th>Comment Type</th>
<th>Existing Wording</th>
<th>Proposed Wording</th>
<th>Disposition</th>
</tr>
</thead>
<tbody>
<tr>
<td>596</td>
<td>2/23/15</td>
<td>Marquard, Brett</td>
<td>Errata report</td>
<td>Smoking Status Observation&lt;br&gt;effectiveTime = being used as two things.&lt;br&gt;Used as 'when the observation was made'&lt;br&gt;'When the person was a smoker' (clinical relevant time)</td>
<td>Align with C-CDA R2.0 which splits this into two templates</td>
<td>Persuasive with Mod</td>
</tr>
<tr>
<td>576</td>
<td>2/18/15</td>
<td>Flessner, Benjamin</td>
<td>Errata report</td>
<td>Tobacco Use V2&lt;br&gt;All the types of tobacco use are represented</td>
<td>The disposition of comment 926 indicated that temporal codes such as 'Former Smoker' 'Never Chewed' etc were to be removed from the Tobacco Use Value Set.</td>
<td>Not Related</td>
</tr>
</tbody>
</table>
Where to post issues?

- If you find an issue with C-CDA IG, you can post them on the HL7 DSTU Comment Page.

- SDWG will review all posted issues to determine if there is a need for an:
  - Errata, a technical correction to the standard
  - Enhancement, a future feature in later releases or
  - Sample Development, to share how it works
How can you be heard?

- What’s next?
  - HL7 C-CDA Survey
  - Participate in review of C-CDA Companion Guide
How to make the standards better?
Summary of How to Help...

Solicit Feedback:
- Use the SDWG listserv
- DSTU Comment page for feedback
- Additional venues (C-CDA Survey, Implementation-A-Thon)

More samples:
- SDWG sample taskforce – 40 new templates approved
  - More in the pipeline, under development
  - C-CDA Companion Guide

Best practices:
- Read the standards and implementation guides
- Review the extensive set of samples developed
- Removing optionality will require wider industry participation of both vendors / practices.
Questions??
Best Practices with C-CDA

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