

Implementation Guide for CDA Release 2

ToC Reference Implementation (RI)

Document Type Specification



**PROTOTYPE: FOR DISCUSSION
AND DEMONSTRATION USE ONLY**

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Acknowledgments

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Revision History

Rev	Date	By Whom	Changes
New	August 26, 2011	Dave Carlson	

Chapter 1

INTRODUCTION

Topics:

- [Overview](#)
- [Approach](#)
- [Scope](#)
- [Audience](#)
- [Organization of This Guide](#)
- [Use of Templates](#)
- [Conventions Used in This Guide](#)

Overview

This implementation guide is generated from UML models developed in the Open Health Tools (OHT) Model-Driven Health Tools (MDHT) project. The data specifications have been formalized into computational models expressed in UML. These models are used by automated tooling to generate this publication, plus validation tools and Java libraries for implementers.

Approach

Working with specifications generated from formal UML models provides the opportunity to work with the data from the perspective of the underlying model and electronic format and to explore many design issues thoroughly. Taking this as an initial step ensures that the data set developers and standards community can reach consensus prior to the larger commitment of time that would be required to bring the full data set into standard format.

This project supports reusability and ease of data collection through a standard data representation harmonized with work developed through Health Information Technology Expert Panel (HITEP), balloted through Health Level Seven (HL7) and/or recognized by the Health Information Technology Standards Panel (HITSP).

This implementation guide (IG) specifies a standard for electronic submission of NCRs in a Clinical Document Architecture (CDA), Release 2 format.

Scope

TODO: scope of this implementation guide.

Audience

The audience for this document includes software developers and implementers who wish to develop...

Organization of This Guide

The requirements as laid out in the body of this document are subject to change per the policy on implementation guides (see section 13.02" Draft Standard for Trial Use Documents" within the HL7 Governance and Operations Manual, http://www.hl7.org/documentcenter/public/membership/HL7_Governance_and_Operations_Manual.pdf).

Templates

Templates are organized by document (see Document Templates), by section (see Section Templates), and by clinical statements (see Clinical Statement Templates). Within a section, templates are arranged hierarchically, where a more specific template is nested under the more generic template that it conforms to. See Templates by Containment for a listing of the higher level templates by containment; the appendix Templates Used in This Guide includes a table of all of the templates Organized Hierarchically.

Vocabulary and Value Sets

Vocabularies recommended in this guide are from standard vocabularies. When SNOMED codes are used, rules defined in Using SNOMED CT in HL7 Version 3 are adhered to. In many cases, these vocabularies are further constrained into value sets for use within this guide. Value set names and OIDs are summarized in the table Summary of Value Sets. Each named value set in this summary table is stored in a template database that will be maintained by CHCA.

Use of Templates

When valued in an instance, the template identifier (`templateId`) signals the imposition of a set of template-defined constraints. The value of this attribute provides a unique identifier for the templates in question.

Originator Responsibilities

An originator can apply a `templateId` to assert conformance with a particular template.

In the most general forms of CDA exchange, an originator need not apply a `templateId` for every template that an object in an instance document conforms to. This implementation guide asserts when `templateIds` are required for conformance.

Recipient Responsibilities

A recipient may reject an instance that does not contain a particular `templateId` (e.g., a recipient looking to receive only CCD documents can reject an instance without the appropriate `templateId`).

A recipient may process objects in an instance document that do not contain a `templateId` (e.g., a recipient can process entries that contain Observation acts within a Problems section, even if the entries do not have `templateIds`).

Conventions Used in This Guide

Conformance Requirements

Conformance statements are grouped and identified by the name of the template, along with the `templateId` and the context of the template (e.g., ClinicalDocument, section, observation), which specifies the element under constraint. If a template is a specialization of another template, its first constraint indicates the more general template. In all cases where a more specific template conforms to a more general template, asserting the more specific template also implies conformance to the more general template. An example is shown below.

Template name

```
[<type of template>: templateId <XXXX.XX.XXX.XXX>]
```

Description of the template will be here

1. Conforms to <The template name> Template (templateId: XXXX<XX>XXX>YYY).
2. **SHALL** contain [1..1] @classCode = <AAA> <code display name> (CodeSystem: 123.456.789 <XXX> Class) **STATIC** (CONF:<number>).
3.

Figure 1: Template name and "conforms to" appearance

The conformance verb keyword at the start of a constraint (**SHALL** , **SHOULD** , **MAY** , etc.) indicates business conformance, whereas the cardinality indicator (0..1, 1..1, 1..*, etc.) specifies the allowable occurrences within an instance. Thus, " **MAY** contain 0..1" and " **SHOULD** contain 0..1" both allow for a document to omit the particular component, but the latter is a stronger recommendation that the component be included if it is known.

The following cardinality indicators may be interpreted as follows:

- 0..1 as zero to one present
- 1..1 as one and only one present
- 2..2 as two must be present
- 1..* as one or more present
- 0..* as zero to many present

Value set bindings adhere to HL7 Vocabulary Working Group best practices, and include both a conformance verb (**SHALL**, **SHOULD**, **MAY**, etc.) and an indication of **DYNAMIC** vs. **STATIC** binding. The use of **SHALL** requires that the component be valued with a member from the cited value set; however, in every case any HL7 "null" value such as other (OTH) or unknown (UNK) may be used.

Each constraint is uniquely identified (e.g., "CONF:605") by an identifier placed at or near the end of the constraint. These identifiers are not sequential as they are based on the order of creation of the constraint.

1. **SHALL** contain [1..1] component/structuredBody (CONF:4082).
 - a. This component/structuredBody **SHOULD** contain [0..1] component (CONF:4130) such that it
 - a. **SHALL** contain [1..1] Reporting Parameters section (templateId:2.16.840.1.113883.10.20.17.2.1) (CONF:4131).
 - b. This component/structuredBody **SHALL** contain [1..1] component (CONF:4132) such that it
 - a. **SHALL** contain [1..1] Patient data section - NCR (templateId:2.16.840.1.113883.10.20.17.2.5) (CONF:4133).

Figure 2: Template-based conformance statements example

CCD templates are included within this implementation guide for ease of reference. CCD templates contained within this implementation guide are formatted WITHOUT typical **KEYWORD** and **XML** element styles. A WIKI site is available if you would like to make a comment to be considered for the next release of CCD: http://wiki.hl7.org/index.php?title=CCD_Suggested_Enhancements The user name and password are: wiki/wikiwiki. You will need to create an account to edit the page and add your suggestion.

1. The value for "Observation / @moodCode" in a problem observation **SHALL** be "EVN" 2.16.840.1.113883.5.1001 ActMood **STATIC**. (CONF: 814).
2. A problem observation **SHALL** include exactly one Observation / statusCode. (CONF: 815).
3. The value for "Observation / statusCode" in a problem observation **SHALL** be "completed" 2.16.840.1.113883.5.14 ActStatus **STATIC**. (CONF: 816).
4. A problem observation **SHOULD** contain exactly one Observation / effectiveTime, to indicate the biological timing of condition (e.g. the time the condition started, the onset of the illness or symptom, the duration of a condition). (CONF: 817).

Figure 3: CCD conformance statements example

Keywords

The keywords **SHALL**, **SHALL NOT**, **SHOULD**, **SHOULD NOT**, **MAY**, and **NEED NOT** in this document are to be interpreted as described in the [HL7 Version 3 Publishing Facilitator's Guide](#):

- **SHALL**: an absolute requirement
- **SHALL NOT**: an absolute prohibition against inclusion
- **SHOULD/SHOULD NOT**: valid reasons to include or ignore a particular item, but must be understood and carefully weighed
- **MAY/NEED NOT**: truly optional; can be included or omitted as the author decides with no implications

XML Examples

XML samples appear in various figures in this document in a fixed-width font. Portions of the XML content may be omitted from the content for brevity, marked by an ellipsis (...) as shown in the example below.

```
<ClinicalDocument xmlns='urn:hl7-org:v3'>
...
</ClinicalDocument>
```

Figure 4: ClinicalDocument example

XPath expressions are used in the narrative and conformance requirements to identify elements because they are familiar to many XML implementers.

Chapter

2

DOCUMENT TEMPLATES

Topics:

- [*Consultation Request*](#)
- [*Consultation Summary*](#)
- [*Discharge Instructions*](#)
- [*Discharge Summary*](#)

This section contains the document level constraints for CDA documents that are compliant with this implementation guide.

Consultation Request

[ClinicalDocument: templateId 1.2.3.4.5.103]

1. **SHALL** conform to *CDT General Header Constraints* template (templateId: 2.16.840.1.113883.10.20.3)
2. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Allergies Reactions Section* (templateId: 2.16.840.1.113883.3.88.11.83.102)
3. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Medications Section* (templateId: 2.16.840.1.113883.3.88.11.83.112)
4. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Problem List Section* (templateId: 2.16.840.1.113883.3.88.11.83.103)
5. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Surgeries Section* (templateId: 2.16.840.1.113883.3.88.11.83.108)
6. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Diagnostic Results Section* (templateId: 2.16.840.1.113883.3.88.11.83.122)
7. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Advance Directives Section* (templateId: 2.16.840.1.113883.3.88.11.83.116)
8. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Assessment And Plan Section* (templateId: 2.16.840.1.113883.3.88.11.83.123)
9. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP History Of Present Illness* (templateId: 2.16.840.1.113883.3.88.11.83.107)
10. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Physical Exam Section* (templateId: 2.16.840.1.113883.3.88.11.83.118)
11. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Reason For Referral Section* (templateId: 2.16.840.1.113883.3.88.11.83.106)
12. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Encounters Section* (templateId: 2.16.840.1.113883.3.88.11.83.127)
13. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Family History Section* (templateId: 2.16.840.1.113883.3.88.11.83.125)
14. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Functional Status Section* (templateId: 2.16.840.1.113883.3.88.11.83.109)
15. **SHOULD** contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] [HITSP Immunizations Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.117)
- 16. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP Medical Equipment Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.128)
- 17. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP Plan Of Care Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.124)
- 18. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP Social History Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.126)
- 19. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP Vital Signs Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.119)
- 20. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP Chief Complaint Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.105)
- 21. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] [CDT General Status Section](#) (templateId: 2.16.840.1.113883.10.20.2.5)
- 22. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP History Of Past Illness Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.104)
- 23. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP Payers Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.101)

Consultation Request example

Consultation Summary

[ClinicalDocument: templateId 1.2.3.4.5.102]

- 1. **SHALL** conform to [CDT General Header Constraints](#) template (templateId: 2.16.840.1.113883.10.20.3)
- 2. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP Allergies Reactions Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.102)
- 3. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP Medications Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.112)
- 4. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP Problem List Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.103)
- 5. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] [HITSP Surgeries Section](#) (templateId: 2.16.840.1.113883.3.88.11.83.108)

6. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Diagnostic Results Section* (templateId: 2.16.840.1.113883.3.88.11.83.122)
7. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Advance Directives Section* (templateId: 2.16.840.1.113883.3.88.11.83.116)
8. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Encounters Section* (templateId: 2.16.840.1.113883.3.88.11.83.127)
9. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Family History Section* (templateId: 2.16.840.1.113883.3.88.11.83.125)
10. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Functional Status Section* (templateId: 2.16.840.1.113883.3.88.11.83.109)
11. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Immunizations Section* (templateId: 2.16.840.1.113883.3.88.11.83.117)
12. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Medical Equipment Section* (templateId: 2.16.840.1.113883.3.88.11.83.128)
13. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Payers Section* (templateId: 2.16.840.1.113883.3.88.11.83.101)
14. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Plan Of Care Section* (templateId: 2.16.840.1.113883.3.88.11.83.124)
15. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Social History Section* (templateId: 2.16.840.1.113883.3.88.11.83.126)
16. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Vital Signs Section* (templateId: 2.16.840.1.113883.3.88.11.83.119)

Consultation Summary example

Discharge Instructions

[ClinicalDocument: templateId 1.2.3.4.5.101]

1. **SHALL** conform to *CDT General Header Constraints* template (templateId: 2.16.840.1.113883.10.20.3)
2. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Plan Of Care Section* (templateId: 2.16.840.1.113883.3.88.11.83.124)
3. **SHALL** contain exactly one [1..1] **component**, such that

- a. Contains exactly one [1..1] *HITSP Allergies Reactions Section* (templateId: 2.16.840.1.113883.3.88.11.83.102)
- 4. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Problem List Section* (templateId: 2.16.840.1.113883.3.88.11.83.103)
- 5. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Discharge Diagnosis Section* (templateId: 2.16.840.1.113883.3.88.11.83.111)
- 6. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Advance Directives Section* (templateId: 2.16.840.1.113883.3.88.11.83.116)
- 7. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Immunizations Section* (templateId: 2.16.840.1.113883.3.88.11.83.117)
- 8. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Medical Equipment Section* (templateId: 2.16.840.1.113883.3.88.11.83.128)

Discharge Instructions example

Discharge Summary

[ClinicalDocument: templateId 1.2.3.4.5.100]

- 1. **SHALL** conform to *CDT General Header Constraints* template (templateId: 2.16.840.1.113883.10.20.3)
- 2. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Allergies Reactions Section* (templateId: 2.16.840.1.113883.3.88.11.83.102)
- 3. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Problem List Section* (templateId: 2.16.840.1.113883.3.88.11.83.103)
- 4. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Hospital Course Section* (templateId: 2.16.840.1.113883.3.88.11.83.121)
- 5. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Hospital Discharge Medications Section* (templateId: 2.16.840.1.113883.3.88.11.83.114)
- 6. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Discharge Diagnosis Section* (templateId: 2.16.840.1.113883.3.88.11.83.111)
- 7. **SHALL** contain exactly one [1..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Plan Of Care Section* (templateId: 2.16.840.1.113883.3.88.11.83.124)
- 8. **SHOULD** contain zero or one [0..1] **component**, such that
 - a. Contains exactly one [1..1] *HITSP Surgeries Section* (templateId: 2.16.840.1.113883.3.88.11.83.108)

9. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *HITSP Chief Complaint Section* (templateId: 2.16.840.1.113883.3.88.11.83.105)

10. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *IHE Discharge Diet* (templateId: 1.3.6.1.4.1.19376.1.5.3.1.3.33)

11. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *HITSP Family History Section* (templateId: 2.16.840.1.113883.3.88.11.83.125)

12. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *HITSP Functional Status Section* (templateId: 2.16.840.1.113883.3.88.11.83.109)

13. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *HITSP History Of Present Illness* (templateId: 2.16.840.1.113883.3.88.11.83.107)

14. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *IHE Hospital Discharge Physical* (templateId: 1.3.6.1.4.1.19376.1.5.3.1.3.26)

15. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *CDT Hospital Discharge Studies Summary Section* (templateId: 2.16.840.1.113883.10.20.16.2.3)

16. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *HITSP Immunizations Section* (templateId: 2.16.840.1.113883.3.88.11.83.117)

17. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *HITSP Review Of Systems Section* (templateId: 2.16.840.1.113883.3.88.11.83.120)

18. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *HITSP Social History Section* (templateId: 2.16.840.1.113883.3.88.11.83.126)

19. SHOULD contain zero or one [0..1] **component**, such that

- a. Contains exactly one [1..1] *HITSP Vital Signs Section* (templateId: 2.16.840.1.113883.3.88.11.83.119)

Discharge Summary example

Chapter

3

SECTION TEMPLATES

Chapter

4

CLINICAL STATEMENT TEMPLATES

This section of the Implementation Guide details the clinical statement entries referenced in the document section templates. The clinical statement entry templates are arranged alphabetically.

Chapter

5

OTHER CLASSES

This section of the Implementation Guide describes other classes that are not CDA Clinical Documents, Sections, or Clinical Statements.

Chapter

6

VALUE SETS

The following tables summarize the value sets used in this Implementation Guide.

REFERENCES

- HL7 Implementation Guide: CDA Release 2 – Continuity of Care Document (CCD) A CDA implementation of ASTM E2369-05 Standard Specification for Continuity of Care Record® (CCR) April 01, 2007 available through [HL7](#) .
- HL7 Implementation Guide for CDA Release 2 Quality Reporting Document Architecture (QRDA) Draft Standard for Trial Use March 2009. Available at: [Quality Reporting Document Architecture \(QRDA\)](#)
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