Continuity of Care Document (CCD)

USA
Health Information Technology Standards Panel (HITSP)

John Quinn – HL7 CTO
(with content contributed by Bob Dolin, MD – HL7 Chair Elect)

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HL7 CCD

- **The HL7 Continuity of Care Document (CCD) is an Implementation Specification of an HL7 CDA R2 Electronic Document.**

- **CCD is based on the ASTM Continuity of Care Record (CCR) Functional Specification.**

- **CCD has been adopted for you by the US Health Information Technology Standards Panel (HITSP) in several of its published Implementation Specifications.**

ASTM CCR

- **The ASTM Continuity of Care Record was developed by various individuals from the American Academy of Family Physicians (AAFP), The Massachusetts Medical Society, HL7 and others.**

- **The intention was to carry "electronic" clinical information that would be sufficient to assist a physician in a medical encounter (e.g., ER, referral to specialist, etc.)**

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ASTM CCR

- **ASTM CCR did not have a reference information model (e.g., HL7 RIM), an electronic document framework definition (e.g., HL7 CDA), or XML schemas and syntax definitions.**

- **Combining CCR and CDA into CCD solved these issues.**

HITSP/C32 Implementation Specification (IS) Summary Documents using HL7 CCD

- **HL7 uses templating to layer constraints atop the HL7 CDA Standard. This templating applies the ASTM Continuity of Care Record (CCR) functional standard and is called the HL7 Continuity of Care Document (CCD).**
- **HL7 has worked with HITSP to then layer additional constraints atop the HL7 CCD to produce HITSP/C32**

HITSP/C32

HL7/ASTM CCD

HL7 CDA
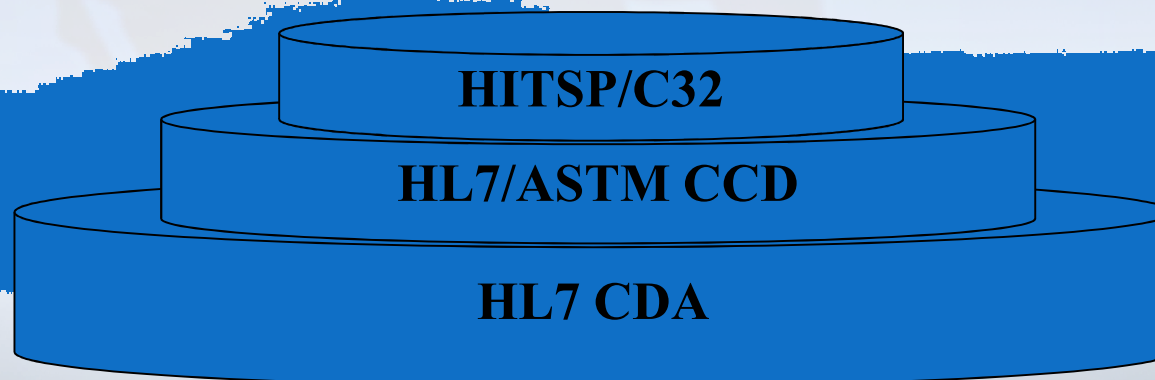
HITSP/C32
Summary Documents using HL7 CCD

C32 further constrains the following CCD templates

Content Module	HITSP Optional Entry	HITSP Repeatable Entry
Advance Directive	O	N
Allergy / Drug Sensitivity	O	N
Comment	O	Y
Condition	O	N
Encounter	O	N
Healthcare Provider	O	Y
Immunization	O	N
Information Source	R	Y
Insurance Provider	O	N
Language Spoken	R2	Y
Medication – Prescription and Non-Prescription	O	N
Person Information	R	N
Plan of Care	O	N
Pregnancy	O	N
Procedure	O	N
Support	R2	Y
Vital Sign	O	N

HITSP/C32
Summary Documents using HL7 CCD

Caveats

- **Where no constraints are stated, instances are subject to and are to be created in accordance with the base CDA R2 specification.**
  - **For example, the CDA R2 specification declares an attribute to be optional and the CCD specification contains no additional constraints, that attribute remains optional for use in a CCD instance.**
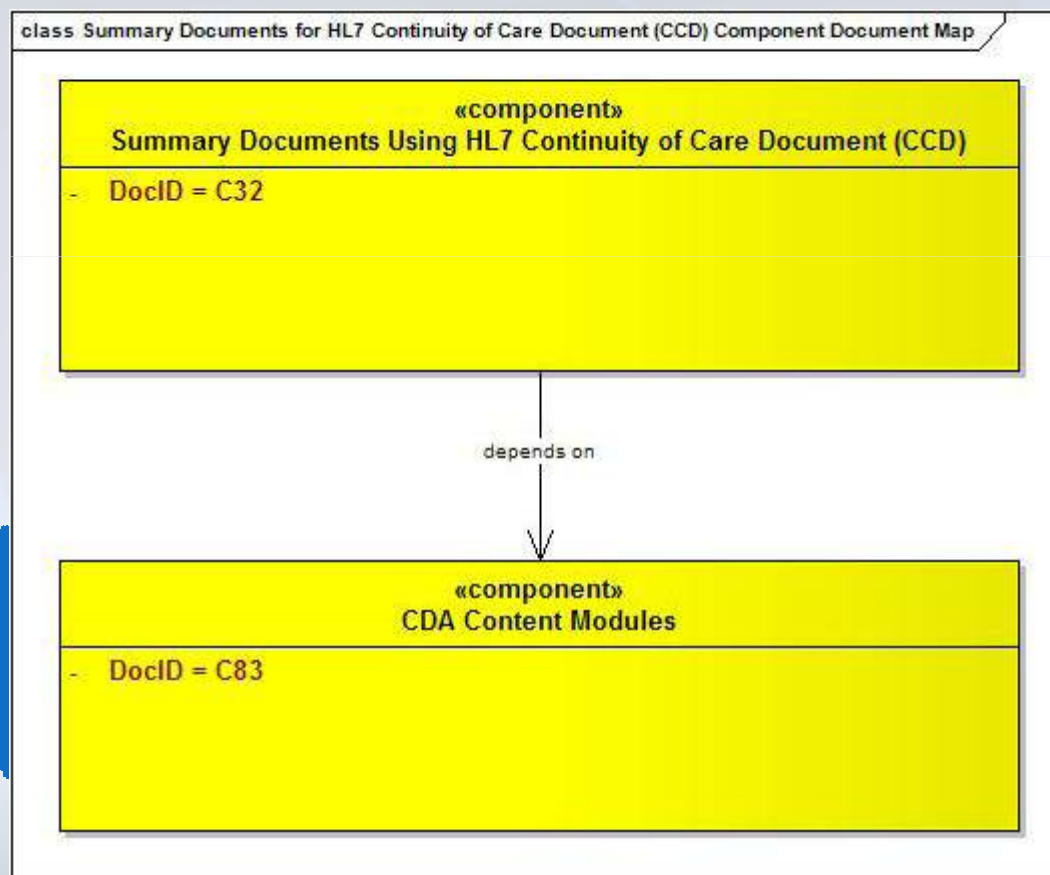
HITSP/C83
CDA Modules Component

C32 templates (and all other HITSP CDA templates) are collected together in HITSP IS /C83

class Summary Documents for HL7 Continuity of Care Document (CCD) Component Document Map

«component»
Summary Documents Using HL7 Continuity of Care Document (CCD)

- DocID = C32

depends on

«component»
CDA Content Modules

- DocID = C83

HITSP/C83
CDA Modules Component

- **HITSP/C83 is a collection of CDA templates for use in:**
    - HITSP/C28 Emergency Care Summary
    - HITSP/C32 - Summary Documents Using HL7 Continuity of Care Document (CCD)
    - HITSP/C38 - Patient Level Quality Data Document Using IHE Medical Summary (XDS-MS)
    - HITSP/C48 Encounter Document constructs
    - HITSP/C84 Consult and History & Physical Note Document
    - HITSP/C78 Immunization Document
    - HITSP/C74 PHRM
    - HITSP/C62 Scanned document

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HITSP/C83
CDA Modules Component

Caveats

- **HITSP/C83 only contains CDA templates, and only those cited within a HITSP recognized specification. There currently is no single comprehensive repository of all HITSP, IHE, and HL7 CDA templates, although plans are underway to construct one.**
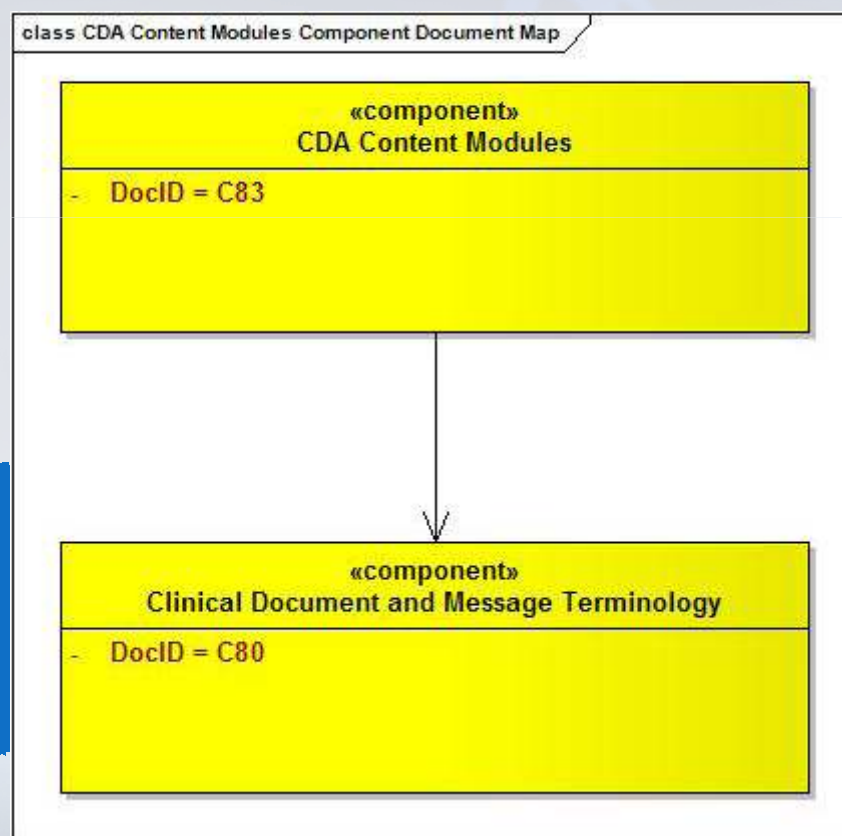- **Layering of constraints poses implementation challenges (which we'll address in upcoming slides).**

HITSP/C32

HITSP/C83

IHE PCC Tech Framework

HL7/ASTM CCD

HL7 CDA
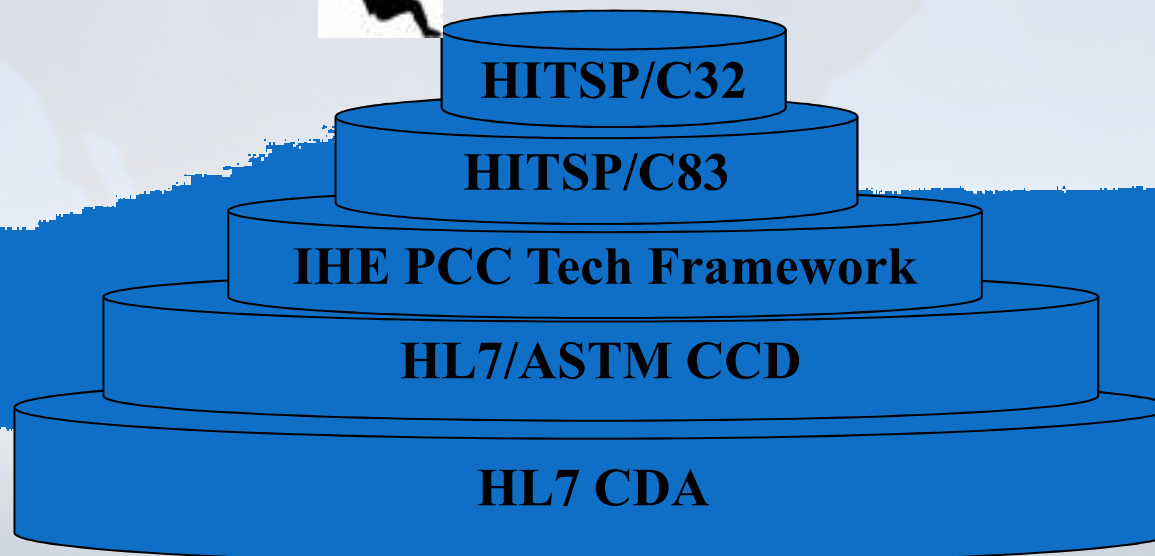
HITSP/C80
Clinical Document and Message Terminology

Clinical terminology referenced by CDA and HITSP-recognized messages are collected together in HITSP/C80

HITSP/C80
Clinical Document and Message Terminology

Caveats

- **ITSP/C80 only contains clinical terminology cited within a HITSP recognized specification. There currently is no single comprehensive repository of all HITSP, IHE, and HL7 value sets, although plans are underway to construct one.**