

DICOM Correction Item

Correction Number	CP-670
Log Summary: Reference rendering of SR	
Type of Modification	Name of Standard
Modification	PS 3.3 2006, PS 3.6 2006, PS 3.16 2006
<p>Rationale for Correction</p> <p>There has always been a tension in all types of structured reporting (not only in DICOM SR) between pure semantic content and human readable rendering of that content. HL7 CDA took a middle ground, with a restricted format markup for presentation of the attested human readable content, with optional structured coded entry content as supplemental information. DICOM SR has taken the approach of pure semantic coded content, with requirements for “full, unambiguous rendering”; however, this does not obviate the real user requirements for a consistently rendered version.</p> <p>In fact, at least one DICOM SR implementation embeds a PDF rendering of the content in a private attribute.</p> <p>With Supplement 101, DICOM added the Equivalent CDA Document Sequence (0040,A090) attribute to the SR object, allowing the reference to a CDA equivalent of the SR. Since CDA is a renderable format (although not truly consistently renderable), this might partially meet the needs. However, that referenced CDA object is external to the DICOM network environment, and has no query/retrieve or transport mechanism for DICOM applications.</p> <p>However, PDF may be encapsulated and transported in the DICOM network environment, and indeed, it is a preferred technology for consistent rendering (as indicated by its aforementioned use).</p> <p>It is therefore proposed to specify a reference from an SR object to an equivalent encapsulated PDF (or other rendering).</p> <p>This is done by replacing the Equivalent CDA Document Sequence with Referenced Instance Sequence (0008,114A), and specifying a Purpose of Reference code for “Equivalent CDA Document” or “Rendering for Presentation”.</p>	
<p>Sections of documents affected</p> <p>PS 3.3 Annex C.17.2</p> <p>PS 3.6</p> <p>PS 3.16 Annex B, D</p>	
Correction Wording:	

Changes to PS 3.3 Annex C.17.2

**Table C.17-2
SR DOCUMENT GENERAL MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
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Equivalent CDA Document Sequence	(0040,A090)	1C	Sequence specifying the CDA Document equivalent to the current SOP Instance. Only a single Item shall be permitted in

			this sequence. See C.17.2.6. Required if the identity of a CDA Document equivalent to the current SOP Instance is known at the time of creation of this SOP Instance.
>Referenced SOP Class UID	(0008,1150)	4	Unique identifier for the class of CDA Document.
>Referenced SOP Instance UID	(0008,1155)	4	Unique identifier for the CDA Document.
<u>Referenced Instance Sequence</u>	<u>(0008,114A)</u>	<u>1C</u>	<u>Sequence specifying SOP Instances significantly related to the current SOP Instance. Such referenced Instances may include equivalent documents or renderings of this document.</u> <u>One or more Items may be included in this sequence.</u> <u>Required if the identity of a CDA Document equivalent to the current SOP Instance is known at the time of creation of this SOP Instance (see C.17.2.6). May be present otherwise.</u>
<u>>Referenced SOP Class UID</u>	<u>(0008,1150)</u>	<u>1</u>	<u>Uniquely identifies the referenced SOP Class.</u>
<u>>Referenced SOP Instance UID</u>	<u>(0008,1155)</u>	<u>1</u>	<u>Uniquely identifies the referenced SOP Instance.</u>
<u>>Purpose of Reference Code Sequence</u>	<u>(0040,A170)</u>	<u>1</u>	<u>Code describing the purpose of the reference to the Instance(s). Only a single Item shall be permitted in this sequence.</u>
<u>>>Include 'Code Sequence Macro' Table 8.8-1</u>			<u>Defined Context ID is CID 7006.</u>

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C.17.2.6 Equivalent CDA Document Sequence

The **Referenced Instance Sequence (0008,114A) with a Purpose of Reference Code Sequence value of (121331, DCM, "Equivalent CDA Document Sequence") (0040,A090)** identifies an HL7 Clinical Document Architecture (CDA) Document that contains clinical content equivalent to this SR Document SOP Instance. This referenced CDA Document may be a source document that was transformed to create this SR Document, or it may be a transcoding of the content created simultaneously for both the SR Document and the CDA Document.

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Change PS 3.6 Section 6

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(0040,A090) Equivalent CDA Document Sequence

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Addition to PS 3.16 Annex B

CID 7006 SR Document Purposes of Reference

Context ID 7006
SR Document Purposes of Reference
Type: Extensible Version: 20061023

Coding Scheme Designator (0008,0102)	Code Value (0008,0100)	Code Meaning (0008,0104)
DCM	121331	Equivalent CDA Document
DCM	121332	Complete Rendering for Presentation
DCM	121333	Partial Rendering for Presentation
DCM	121334	Extended Rendering for Presentation
DCM	121335	Source Document

Addition to PS 3.16 Annex D

DICOM Code Definitions (Coding Scheme Designator “DCM” Coding Scheme Version “01”)

Code Value	Code Meaning	Definition	Notes
121331	Equivalent CDA Document	HL7 Document Architecture (CDA) Document that contains clinical content equivalent to the referencing Instance	
121332	Complete Rendering for Presentation	Instance that contains a displayable complete rendering of the referencing Instance	
121333	Partial Rendering for Presentation	Instance that contains a displayable partial rendering of the referencing Instance	
121334	Extended Rendering for Presentation	Instance that contains a displayable complete rendering of the referencing Instance, plus additional content such as inline rendering of referenced images	
121335	Source Document	Document whose content has been wholly or partially transformed to create the referencing document	