DICOM Change Proposal

STATUS	Final Text
Date of Last Update	2026/03/21
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Submission Date	2025/08/25

Change Number CP-2561
Log Summary: Add Purpose of Reference to Referenced Instance and Image Sequences in Encapsulated Document Module
Name of Standard PS3.3 2026a
Rationale for Change: With Supplement 208: DICOM Encapsulation of OBJ Models for 3D Manufacturing and Virtual Reality, conditionally required Referenced Image Sequence and Referenced Instance Sequence attributes were added to PS3.3 Section C.24.2 Encapsulated Document Module. This CP adds Purpose of Reference Code Sequence to those sequences in the Module, as it is already the case with the Source Instance Sequence as well as similar sequences in the General Reference Module and also adjusts their descriptions to support a broader range of uses cases.
Change Wording:

Modify PS3.3 Section C.24.2, Table C.24-2. Encapsulated Document Module Attributes, as indicated (changes to existing text are bold and underlined for additions and bold and struckthrough for removals):

C.24.2 Encapsulated Document Module

Table C.24-2 defines the Attributes of the Encapsulated Document Module.

Table C.24-2. Encapsulated Document Module Attributes

Attribute Name	Tag	Type	Attribute Description
…			
Source Instance Sequence	(0042,0013)	1C	A Sequence that identifies the set of Instances that were used to derive the encapsulated document. One or more Items shall be included in this Sequence. Required if derived from one or more DICOM Instances. May be present otherwise.

Attribute Name	Tag	Type	Attribute Description
			Note Unlike other uses of Source Instance Sequence (0042,0013), such as in the General Reference Module, references to images are permitted in this Module. This Module does not include the Source Image Sequence (0008,2112). The Defined Context Group for Purpose of Reference Code Sequence (0040,A170) includes an appropriate concept.
>Include Table 10-11 "SOP Instance Reference Macro Attributes"			
>Purpose of Reference Code Sequence	(0040,A170)	3	Describes the purpose for which the reference is made, that is what role the source Instances played in the derivation of this encapsulated document Only a single Item single Item is permitted in this Sequence.
>>Include Table 8.8-1 "Code Sequence Macro Attributes"			*DCID 7060 "Encapsulated Document Source Purpose of Reference".*
Referenced Image Sequence	(0008,1140)	3	The set of Image Instances **that are** referenced in the encapsulated document **or significantly related to this SOP Instance**. One or more Items are permitted in this Sequence.
>Include Table 10-3 "Image SOP Instance Reference Macro Attributes"			
>Purpose of Reference Code Sequence	**(0040,A170)**	**3**	**Describes the purpose for which the reference is made.** **Only a single Item is permitted in this Sequence.**
>>Include Table 8.8-1 "Code Sequence Macro Attributes"			***DCID 7201 "Referenced Image Purpose of Reference"***
>Relative URI Reference Within Encapsulated Document	(0068,7005)	1C	The relative URI reference used in the encapsulated document to reference the Image Instance in this Item. This may be used to maintain referential integrity between a set of related encapsulated documents. Required if the Encapsulated Document (0042,0011) contains a reference to the Image Instance in this Item. See Section C.24.2.4.
Referenced Instance Sequence	(0008,114A)	3	The set of non-image SOP Instances **that are** referenced in the encapsulated document **or significantly related to this SOP Instance**. One or more Items are permitted in this Sequence.
>Include Table 10-11 "SOP Instance Reference Macro Attributes"			
>Purpose of Reference Code Sequence	**(0040,A170)**	**3**	**Describes the purpose for which the reference is made.** **Only a single Item is permitted in this Sequence.**
>>Include Table 8.8-1 "Code Sequence Macro Attributes"			***DCID 7004 "Waveform Purpose of Reference" for referenced waveforms.***

Attribute Name	Tag	Type	Attribute Description
			DCID 7022 "Radiotherapy Purpose of Reference" for referenced RT Instances.
>Relative URI Reference Within Encapsulated Document	(0068,7005)	1C	The relative URI reference used in the encapsulated document to reference the SOP Instance in this Item. This may be used to maintain referential integrity between a set of related encapsulated documents. Required if the Encapsulated Document (0042,0011) contains a reference to the SOP Instance in this Item. See Section C.24.2.4.
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