

### DICOM Correction Proposal Form

Correction Number		CP-243
Log Summary: Description of MPPS Referenced Standalone SOP Instance Sequence		
Type of Modification	Name of Standard	
Clarification	PS 3.3, 3.4, 3.6-2000	
Rationale for Correction		
<p>It is clearly intended that the attribute (0040,0220) Referenced Standalone SOP Instance Sequence be used to reference all non-image products of an acquisition step, yet LUTs, curves and overlays (which are almost never used) are called out as examples, and waveforms, structured reports and presentation states are not. Accordingly a more specific description is proposed.</p> <p>Furthermore, it is not actually stated in the attribute description that the image SOP instances referred to are those acquired during the MPPS. Finally, an MPPS could potentially contain no image references but standalone references, hence the "related to these images" description is not correct.</p>		
Sections of documents affected		
PS 3.3 Table C.4-15		
PS 3.4 F.7.2, F.8.2		
PS 3.6		
Correction Wording:		

*PS 3.3: Change name of attribute and descriptions, and remove note:*

**Table C.4-15  
IMAGE ACQUISITION RESULTS MODULE ATTRIBUTES**

Attribute Name	Tag	Attribute Description
...	...	...
>Referenced Image Sequence	(0008,1140)	A Sequence that provides reference to one or more sets of Image SOP Class/SOP Instance pairs <b>created during the acquisition of the procedure step</b> . The sequence may have zero or more Items.
>>Referenced SOP Class UID	(0008,1150)	Uniquely identifies the referenced SOP Class.
>>Referenced SOP Instance UID	(0008,1155)	Uniquely identifies the referenced SOP Instance.
>Referenced <b>Standalone Non-Image Composite</b> SOP Instance Sequence	(0040,0220)	Uniquely identifies <b>Standalone IODs instances of any SOP Class that conforms to the DICOM Composite IOD Information Model other than images</b> , such as <b>Waveforms, Presentation States, Structured Reports</b> , LUTs, Curves or Overlays <b>related to these images created during the acquisition of the procedure step</b> . The sequence may have zero or more Items.

>>Referenced SOP Class UID	(0008,1150)	Uniquely identifies the referenced SOP Class.
>>Referenced SOP Instance UID	(0008,1155)	Uniquely identifies the referenced SOP Instance.

~~Note: The term "Standalone IOD" is used as a generic name for all IODs other than images that conform to the DICOM Composite IOD Information Model, such as Curves, Overlays, LUTs.~~

PS 3.4: Change name of attribute and text of references to it:

**F.7.2.1.1 Modality Performed Procedure Step Subset Specification**

...

**Table F.7.2-1  
MODALITY PERFORMED PROCEDURE STEP SOP CLASS N-CREATE, N-SET AND FINAL STATE ATTRIBUTES**

Attribute Name	Tag	Req. Type N-CREATE (SCU/SCP)	Req. Type N-SET (SCU/SCP)	Requirement Type Final State (See Note 1)
...		...	...	
Image Acquisition Results				
>Referenced <b>Standalone Non-Image Composite</b> SOP Instance Sequence	(0040,0220)	2C/2 (Required if Sequence Item is present)	2C/2 (Required if Sequence Item is present)	See F.7.2.2.2.
...		...	...	

Notes: 1. ...

2. The Performed Series Sequence (0040,0340) may not be empty (zero length) at the time that the Performed Procedure Step Status (0040,0252) is N-SET to a value of COMPLETED or DISCONTINUED. In other words a Series must exist for every Performed Procedure Step, though it may contain no Images or **Standalone Non-Image Composite** objects, if none were created, as described in F.7.2.2.2.

3. ...

**F.7.2.2.2 Service Class User**

...

Before or when Modality Performed Procedure Step Status (0040,0252) is set to "COMPLETED" or "DISCONTINUED" the SCU shall have created or set all the Attributes according to the requirements in the Final State column of Table F.7.2-1. Before or when Modality Performed Procedure Step Status (0040,0252) is set to "COMPLETED" or "DISCONTINUED" the SCU shall have sent to the SCP a list of all Image SOP Instances and all **Standalone Non-Image Composite** SOP Instances created during the Procedure Step in Referenced Image Sequence (0008,1140) and Referenced **Standalone Non-Image Composite** SOP Instance Sequence (0040,0220) respectively.

- Notes: **1.** The intent is that a completed or discontinued Modality Performed Procedure Step entity will contain a complete list of all the Images and ~~Standalone Non-Image Composite~~ SOP Instances that were created.
- 2. The distinction between the list of images and non-images is present for historical reasons only, and has no semantic significance.**

The Modality Performed Procedure Step Status (0040,0252) shall not be set to "COMPLETED" or "DISCONTINUED" if the list contains neither Image references nor ~~Standalone Non-Image Composite~~ SOP Instance references, unless no such Instances were created.

**F.8.2.1.1 Modality Performed Procedure Step Retrieve IOD Subset Specifications**

...

Table F.8.2-1

**MODALITY PERFORMED PROCEDURE STEP RETRIEVE SOP CLASS N-GET ATTRIBUTES**

Attribute Name	Tag	Requirement Type (SCU/SCP)
...	...	...
>Referenced <del>Standalone Non-Image Composite</del> SOP Instance Sequence	(0040,0220)	-/2C (Required if Sequence Item is present)
...	...	...

*PS 3.6: Change name of attribute:*

(0040,0220) Referenced ~~Standalone Non-Image Composite~~ SOP Instance Sequence      SQ      1