

DICOM Correction Item

Correction Number		CP-809
Log Summary: Preserve SOP Instance UID when concatenation is used		
Type of Modification	Name of Standard	
Clarification	PS 3.3 – 2008	
<p>Rationale for Correction</p> <p>When an Enhanced SOP Instance is split into a concatenation composed of separate SOP Instances, each Instance has its own SOP Instance UID. The separate SOP Instances may exist only during the transfer and may be reassembled when the complete data is required. References from other SOP Instances point to the SOP Instance UID on the entire concatenation and not to separate SOP Instances.</p> <p>This CP adds a new UID that can be used for reference purposes.</p>		
Sections of documents affected		
PS 3.3 C.7.6.16		
Correction Wording:		

Add new attribute to PS 3.3 Table C.7.6.16-1

C.7.6.16 Multi-frame Functional Groups Module

Table C.7.6.16-1 specifies the attributes of the Multi-frame Functional Groups Module. This module is included in SOP instances even if there is only one frame in the instance.

**Table C.7.6.16-1
 MULTI-FRAME FUNCTIONAL GROUPS MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
...			
Concatenation UID	(0020,9161)	1C	Identifier of all SOP Instances that belong to the same concatenation. Required if a group of multi-frame image SOP Instances within a Series are part of a Concatenation.
<u>SOP Instance UID of Concatenation Source</u>	<u>(0020,0242)</u>	<u>1C</u>	<u>The SOP Instance UID of the single composite SOP Instance of which the Concatenation is a part. All SOP Instances of a concatenation shall use the same value for this attribute, see C.7.6.16.1.3.</u> <u>Note: May be used to reference the entire instance rather than individual instances of the concatenation, which may be transient (e.g., from a presentation state).</u> <u>Required if Concatenation UID (0020,9161) is present.</u>
...			

...

C.7.6.16.1.3 SOP Instance UID of Concatenation Source

The SOP Instance UID of Concatenation Source does not change when a concatenation is created. It is independent of the Concatenation UID because a SOP Instance can be divided into concatenations only during exchange and there can be more than one concatenation with different Concatenation UIDs of a original SOP Instance, see Figure C.6.17-2.

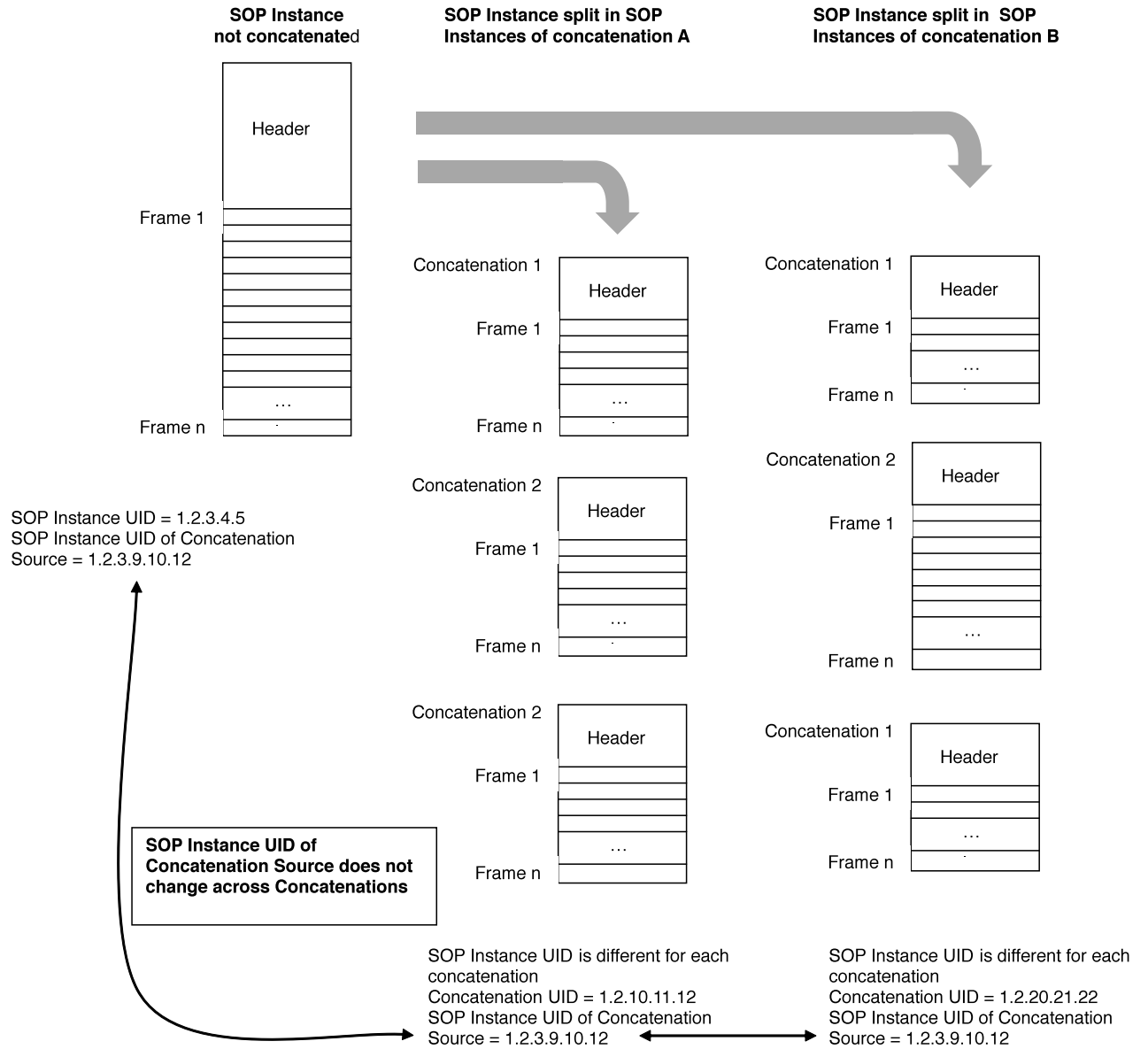


Figure C.6.17-2 SOP Instance UID of Concatenation Source

Add new data element to PS 3.6 Section 6

6 Registry of DICOM data elements

Tag	Name	VR	VM
...			
(0020,0242)	SOP Instance UID of Concatenation Source	UI	1

