

DICOM Correction Proposal

STATUS	Assigned
Date of Last Update	2016/04/01
Person Assigned	Björn Nolte
Submitter Name	Harry Solomon
Submission Date	2016/02/04

Correction Number	CP- 1597
Log Summary: Clarify Segmentation Algorithm Parameters	
Name of Standard	PS3.3
<p>Rationale for Correction:</p> <p>The Segmentation IOD currently only allows specification of algorithm parameters in Segment Surface Generation Algorithm Identification Sequence. Either create a new attribute that is not limited to “Surface Generation”, or clarify that the attribute, despite its name, is used for any segmentation algorithm.</p> <p>Further, clarify the distinction (if any) between the Segment Algorithm Name that appears in the Segment Sequence Item, and Algorithm Name that appears in the subsidiary Segment (Surface Generation) Algorithm Identification Sequence.</p>	
Correction Wording:	

Amend PS3.3 Section C.8.20.2

Table C.8.20-2. Segmentation Image Module Attributes

Attribute Name	Tag	Type	Attribute Description
...			
Segment Sequence	(0062,0002)	1	Describes the segments that are contained within the data. One or more Items shall be included in this sequence.
<i>>Include Table C.8.20-4 “Segment Description Macro Attributes”</i>			
>Segment Algorithm Name	(0062,0009)	1C	Name of algorithm used to generate the segment. Required if Segment Algorithm Type (0062,0008) is not MANUAL.
>Segment Surface Generation Algorithm Identification Sequence	(0066,002D) <u>(xxxx,yyyy)</u>	3	A description of how this segment was derived. <u>Algorithm Name (0066,0036) within this sequence may be identical to Segment Algorithm Name (0062,0009).</u> Only a single item is permitted in this sequence.
<i>>>Include Table 10-19 “Algorithm Identification Macro Attributes”</i>			<i>Baseline CID 7162 “Surface Processing Algorithm Families”.</i>
...			

Table 10-19 for information purposes only

Table 10-19. Algorithm Identification Macro Attributes

Attribute Name	Tag	Type	Attribute Description
Algorithm Family Code Sequence	(0066,002F)	1	The family of algorithm(s) that best describes the software algorithm used. Only a single item shall be included in this sequence.
>Include Table 8.8-1 "Code Sequence Macro Attributes"			Context ID may be defined in the macro invocation.
Algorithm Name Code Sequence	(0066,0030)	3	The code assigned by a manufacturer to a specific software algorithm. Only a single item is permitted in this sequence.
>Include Table 8.8-1 "Code Sequence Macro Attributes"			No Baseline CID is defined.
Algorithm Name	(0066,0036)	1	The name assigned by a manufacturer to a specific software algorithm.
Algorithm Version	(0066,0031)	1	The software version identifier assigned by a manufacturer to a specific software algorithm.
Algorithm Parameters	(0066,0032)	3	The input parameters used by a manufacturer to configure the behavior of a specific software algorithm.
Algorithm Source	(0024,0202)	3	Source of the algorithm, e.g., the name of the manufacturer, researcher, university, etc.

In PS 3.6, Section 6, add the following new attribute:

(xxxx,yyyy) Segment Algorithm Identification Sequence SegmentAlgorithmIdentificationSequence SQ 1