

# DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2016/09/08
Person Assigned	Ulrich Busch (ulrich.busch@varian.com)
Submitter Name	Christof Schadt (christof.schadt@brainlab.com)
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Correction Number	CP-1586
Log Summary: Add Segmented Property Type Modifier Code Sequence to RT ROI Observations Module	
Name of Standard PS3.3, PS3.6	
Rationale for Correction:  With the additions as proposed in CP 1539 “Add Equivalent Purpose Code”, WG-07 wants to align the current definitions of codes in the RT Structure Set definition with the codes used in the Segmentation IOD in order to have a consistent definition.  It is therefore proposed to remove an obsolete attribute from the RT ROI Observation Module and add a Type Code Modifier accordingly.	
Correction Wording:	

*In Part 3, Section C.8.8.8 RT ROI Observations Module:*

Table C.8-44.  
RT ROI Observations Module Attributes

RT ROI Observations Sequence	(3006,0080)	1	Sequence of observations related to ROIs defined in the ROI Module. One or more Items shall be included in this Sequence.
...			
>Segmented Property Category Code Sequence	(0062,0003)	3	Sequence defining the general category of this ROI. Only a single Item is permitted in this Sequence. See Note 1.
>>Include Table 8.8-1 “Code Sequence Macro Attributes”			No Baseline CID is defined.
>RT ROI Identification Code Sequence	(3006,0086)	3	Sequence containing Code used to identify ROI. Only a single Item is permitted in this Sequence. See Note 2.
>>Include Table 8.8-1 “Code Sequence Macro Attributes”			No Baseline CID is defined.

<b>&gt;&gt;Segmented Property Type Modifier Code Sequence</b>	<b>(0062,0011)</b>	<b>3</b>	<b>Sequence defining the modifier of the property type of this segment. One or more Items are permitted in this sequence.</b>
<b>&gt;&gt;&gt;Include Table 8.8-1 'Code Sequence Macro Attributes'</b>			<b>Baseline CID 244 "Laterality".</b>
<b>&gt;Additional RT ROI Identification Code Sequence</b>	<b>(3006,00B9)</b>	<b>3</b>	<b>Sequence containing Code used to identify ROI for a particular purpose. One or more Items are permitted in this Sequence. See Section C.8.8.2.</b>
<b>&gt;&gt;Include Table 8.8-1 "Code Sequence Macro Attributes"</b>			<b>No Baseline CID is defined.</b>
<b>&gt;&gt;Purpose of Reference Code Sequence</b>	<b>(0040,A170)</b>	<b>1</b>	<b>Describes the purpose for which the identification code is assigned. Only a single Item shall be included in this Sequence.</b>
<b>&gt;&gt;&gt;Include Table 8.8-1 "Code Sequence Macro Attributes"</b>			<b>No Baseline CID is defined.</b>
...			

Note

1. This attribute allows preserving information by copying the content of Segmented Property Category Code Sequence (0062,0003) in case a Segmentation object is re-encoded as an RT Structure Set or vice-versa.
2. In case of re-encoding a Segmentation object as an RT Structure Set or vice-versa it is suggested, that the Segmented Property Type Code Sequence (0062,000F) is mapped to RT ROI Identification Code Sequence (3006,0086).

...

### C.8.8.8.2 Additional RT ROI Identification Code Sequence

~~The Additional RT ROI Identification Code Sequence (3006,00B9) is to provide the facility to annotate the ROI with additional codes. Such additional codes are positioned to support cross-institutional, cross-application classification for clinical workflow, automated treatment planning, DVH analysis etc. The code provided in the Purpose of Reference Code Sequence (0040,A170) allows to identify the scope of use of the Additional RT ROI Identification Code (e.g., data registries and clinical trials, cross-institutional, cross-application classification for clinical workflow, automated treatment planning).~~

Retired. See DICOM PS3.3 2016c.

In Part 3, for reference unchanged:

### C.8.20.4.1 Segment Description Macro

Table C.8.20-4 specifies the attributes of the Segment Description Macro.

**Table C.8.20-4. Segment Description Macro Attributes**

Attribute Name	Tag	Type	Attribute Description
Segment Number	(0062,0004)	1	Identification number of the segment. The value of Segment Number (0062,0004) shall be unique within the Segmentation instance in which it is created. See Section C.8.20.2.4.
Segment Label	(0062,0005)	1	User-defined label identifying this segment. This may be the same as Code Meaning (0008,0104) of Segmented Property Type Code Sequence (0062,000F).
Segment Description	(0062,0006)	3	User-defined description for this segment.
Segment Algorithm Type	(0062,0008)	1	<p>Type of algorithm used to generate the segment.</p> <p>Enumerated Values:</p> <p><b>AUTOMATIC</b>      calculated segment</p> <p><b>SEMIAUTOMATIC</b>      calculated segment with user assistance</p> <p><b>MANUAL</b>      user-entered segment</p>
<i>Include Table 10-7 "General Anatomy Optional Macro Attributes"</i>			May not be necessary if the anatomy is implicit in the Segmented Property Type Code Sequence.
Segmented Property Category Code Sequence	(0062,0003)	1	<p>Sequence defining the general category of this segment.</p> <p>Only a single Item shall be included in this Sequence.</p>
<i>&gt;Include Table 8.8-1 "Code Sequence Macro Attributes"</i>			<i>Baseline CID 7150 "Segmentation Property Categories".</i>
Segmented Property Type Code Sequence	(0062,000F)	1	<p>Sequence defining the specific property type of this segment.</p> <p>Only a single Item shall be included in this Sequence.</p>
<i>&gt;Include Table 8.8-1 "Code Sequence Macro Attributes"</i>			<i>Baseline CID 7151 "Segmentation Property Types".</i>
>Segmented Property Type Modifier Code Sequence	(0062,0011)	3	<p>Sequence defining the modifier of the property type of this segment.</p> <p>One or more Items are permitted in this Sequence.</p>
<i>&gt;&gt;Include Table 8.8-1 "Code Sequence Macro Attributes"</i>			<i>Baseline CID 244 "Laterality".</i>
Tracking ID	(0062,0020)	1C	<p>A text label used for tracking a finding or feature, potentially across multiple reporting objects, over time. This label shall be unique within the domain in which it is used.</p> <p>Required if Tracking UID (0062,0021) is present.</p>

Attribute Name	Tag	Type	Attribute Description
			<p>Note</p> <ol style="list-style-type: none"> <li>1. May be used for tracking a finding or feature that is described by this segment, potentially across multiple objects, over time.</li> <li>2. May or may not have the same value as Segment Label (0062,0005).</li> <li>3. Related SR instances may exist, for example, to record measurements related to this segment, but need not exist for this Attribute to be used.</li> <li>4. This Attribute will have the same value as the value of the (112039, DCM, "Tracking Identifier") content item in SR instances that reference this Segment in this Segmentation Instance.</li> </ol>
Tracking UID	(0062,0021)	1C	<p>A unique identifier used for tracking a finding or feature, potentially across multiple reporting objects, over time.</p> <p>Required if Tracking ID (0062,0020) is present.</p> <p>Note</p> <ol style="list-style-type: none"> <li>1. May be used for tracking a finding or feature that is described by this segment, potentially across multiple objects, over time.</li> <li>2. Related SR instances may exist, for example, to record measurements related to this segment, but need not exist for this Attribute to be used.</li> <li>3. This Attribute will have the same value as the value of the (112040, DCM, "Tracking Unique Identifier") content item in SR instances that reference this Segment in this Segmentation Instance.</li> </ol>

In PS 3.6, Section 6:

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(3006,00B9)	Additional RT ROI Identification Code Sequence	Additional RT ROI Identification Co deSequence	SQ	1	<b><u>RET</u></b>
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