

# DICOM Correction Proposal

STATUS	Assigned
Date of Last Update	2026/03/13
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Correction Number	CP-2608
Log Summary:	Add Tracking ID and UID to RTSTRUCT ROIs for longitudinal tracking
Name of Standard	PS3.3
Rationale for Correction:	RT Structure Set currently lacks a standard persistent identifier for tracking the same ROI across timepoints, such as in adaptive replanning or follow-up studies. Users must rely on unstable ROI Names or vendor-specific conventions. The DICOM Segmentation IOD already defines Tracking ID (0062,0020) and Tracking UID (0062,0021) for this purpose, allowing linkage of a single finding or feature across multiple objects over time. This CP adds those attributes to RT Structure Set ROIs to enable consistent cross-object tracking.
Correction Wording:	

**Modify Table C.8-41. Structure Set Module Attributes in section C.8.8.5 (Structure Set ROI Sequence) adding the following attributes:**

## C.8.8.5 Structure Set Module

A structure set defines a set of areas of significance. Each area can be associated with a Frame of Reference and zero or more images. Information that can be transferred with each region of interest (ROI) includes geometrical and display parameters, and generation technique.

**Table C.8-41. Structure Set Module Attributes**

Attribute Name	Tag	Type	Attribute Description
Structure Set Label	(3006,0002)	1	User-defined label for Structure Set.
Structure Set Name	(3006,0004)	3	User-defined name for Structure Set.
...			
Structure Set ROI Sequence	(3006,0020)	3	ROIs for current Structure Set. One or more Items are permitted in this Sequence.
>ROI Number	(3006,0022)	1	Identification number of the ROI. The Value of ROI Number (3006,0022) shall be unique within the Structure Set in which it is created.

Attribute Name	Tag	Type	Attribute Description
>Conceptual Volume Identification Sequence	(3010,00A0)	3	Identifies the Conceptual Volume which is represented by this ROI. Only a single Item is permitted in this Sequence.
>>Include Table 10.33-1 "Conceptual Volume Macro Attributes".			
<b>&gt;Tracking ID</b>	<b>(0062,0020)</b>	<b>1C</b>	<p><b><u>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.</u></b></p> <p><b><u>Required if Tracking UID (0062,0021) is present.</u></b></p> <p><b>Note</b></p> <ol style="list-style-type: none"> <li><b><u>1. Related SR Instances may exist, for example, to record measurements related to this Segment, but need not exist for this Attribute to be used.</u></b></li> <li><b><u>2. 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.</u></b></li> <li><b><u>3. These attributes have identical semantics to those in the Segment Description Macro and allow alignment between RTSTRUCT, SEG, and SR objects.</u></b></li> </ol>
<b>&gt;Tracking UID</b>	<b>(0062,0021)</b>	<b>1C</b>	<p><b><u>A unique identifier used for tracking a finding or feature, potentially across multiple reporting objects, over time.</u></b></p> <p><b><u>Required if Tracking ID (0062,0020) is present.</u></b></p> <p><b>Note</b></p> <ol style="list-style-type: none"> <li><b><u>1. Related SR Instances may exist, for example, to record measurements related to this segment, but need not exist for this Attribute to be used.</u></b></li> <li><b><u>2. 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.</u></b></li> <li><b><u>3. These attributes have identical semantics to those in the Segment Description Macro and allow alignment between RTSTRUCT, SEG, and SR objects.</u></b></li> </ol>
>Referenced Frame of Reference UID	(3006,0024)	1	Uniquely identifies Frame of Reference in which ROI is defined, specified by Frame of Reference UID (0020,0052) in Referenced Frame of Reference Sequence (3006,0010).
>ROI Name	(3006,0026)	2	User-defined name for ROI.

Attribute Name	Tag	Type	Attribute Description
>ROI Description	(3006,0028)	3	User-defined description for ROI.
>ROI Volume	(3006,002C)	3	Volume of ROI (cubic centimeters).
>ROI DateTime	(3006,002D)	3	DateTime when this ROI was last modified.
>ROI Generation Algorithm	(3006,0036)	2	Type of algorithm used to generate ROI.  Defined Terms: <b>AUTOMATIC</b> calculated ROI <b>SEMIAUTOMATIC</b> ROI calculated with user assistance <b>MANUAL</b> user-entered ROI