

## DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2014/06/25
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Correction Number	CP-1331
Log Summary:	Treatment Time in RT Plan
Name of Standard	PS 3.3 2011
Rationale for Correction:	As a security measure most of the existing Record&Verify systems provide a specific field that contains a maximum time for a radiotherapeutic treatment delivery. In order to provide this value from a Treatment Planning System the addition of a new attribute is proposed.
Correction Wording:	

*PS 3.3, C.8.8.13 RT Fraction Scheme Module*

**Table C.8-49—RT FRACTION SCHEME MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Fraction Group Sequence	(300A,0070)	1	Introduces sequence of Fraction Groups in current Fraction Scheme. One or more items shall be included in this sequence.
>Fraction Group Number	(300A,0071)	1	Identification number of the Fraction Group. The value of Fraction Group Number (300A,0071) shall be unique within the RT Plan in which it is created.
...			
>Referenced Beam Sequence	(300C,0004)	1C	Introduces sequence of treatment beams in current Fraction Group. One or more items shall be included in this sequence. Required if Number of Beams (300A,0080) is greater than zero.
...			
>>Beam Meterset	(300A,0086)	3	Machine setting to be delivered for current Beam, specified in Monitor Units (MU) or minutes as defined by Primary Dosimeter Unit (300A,00B3) (in RT Beams Module) for referenced Beam. See Note 4.
<b>&gt;&gt;Beam Delivery Duration Limit</b>	<b>(300A,00C5)</b>	<b>3</b>	<b><u>The expected maximum delivery time in sec.</u></b>

			<b><u>See Note 7.</u></b>
...			

Notes: 1. An RT Dose IOD referenced within the Referenced Dose Sequence (300C,0080) can be used for storing grid-based (pixel) data, isodose curves, and/or individual dose points (with optional dose point names) for the current Fraction Group.

...

**7. The Beam Delivery Duration Limit (300A,00C5) is the maximum time span allowed to deliver a single fraction of a beam to prevent significant over-treatments. Treatment is expected to be terminated upon reaching the Beam Delivery Duration Limit independent of the meterset. This limit represents the expected time span including some increase by a factor greater than 1 to accommodate normal variations in delivery.**

<i>PS 3.6, Add to 6 Registry of DICOM data elements</i>
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<b><u>(300A,00C5)</u></b>	<b><u>Beam Delivery Duration Limit</u></b>	<b><u>BeamDeliveryDurationLi</u></b>	<b><u>FD</u></b>	<b><u>1</u></b>
		<b><u>mit</u></b>		