

# DICOM Correction Proposal

STATUS	Letter Ballot
Date of Last Update	2014/09/08
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Submission Date	2014/01/21

Correction Number	CP-1393
Log Summary:	Correct Tag Numbers For BLD Adjusted Positions
Name of Standard	PS 3.3 2011
Rationale for Correction:	The module specification in PS 3.3. for the RT Beams Delivery Instruction Module Part 3.3 contains a digit mix-up in element numbers for 3 attributes. The toolkits known use the numbers defined in PS 3.6. It has been clarified with the first implementers that they have used the PS 3.6 numbers as well, based on the toolkits. Therefore the element numbers in PS 3.3 should be corrected along the definition in PS 3.6.
Correction Wording:	

*In PS 3.3, Section C.8.8.29 RT Beams Delivery Instruction Module, correct the following element numbers:*

### **C.8.8.29 RT Beams Delivery Instruction Module**

The RT Beams Delivery Instruction Module contains additional information required by a Treatment Delivery System (TDS) when specifying delivery of an external beam radiotherapy treatment. This information is supplied by a Treatment Management System (TMS) when it creates an RT Beams Delivery Instruction SOP Instance, a composite SOP Instance in turn referenced by a Unified Procedure Step (UPS) in the Unified Procedure Step model.

The RT Beams Delivery Instruction Module consists of a sequence of one or more beam tasks, where each beam task may also specify one or more Delivery Verification images to be acquired prior to, during, or after the treatment delivery.

**Table C.8.8.29-1 RT BEAMS DELIVERY INSTRUCTION MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Description
Referenced RT Plan Sequence	(300C,0002)	1	Reference to a single RT Plan or RT Ion Plan SOP Instance (whose UID is also supplied in the Input Information Sequence – see PS3.4) containing all the Beams and the Fraction Group referenced in this SOP Instance. Only a single item shall be included in this sequence.
<i>&gt;Include 'SOP Instance Reference Macro' Table 10-11</i>			
Beam Task Sequence	(0074,1020)	1	Specification of beams to be delivered and/or verified. One or more Items shall be included in this sequence.

Attribute Name	Tag	Type	Description
>Beam Task Type	(0074,1022)	1	Indication whether beam is to be verified, treated (delivered), or both. Enumerated Values: VERIFY = Beam verification only TREAT = Beam treatment only VERIFY_AND_TREAT = Beam verification and treatment
...			
>Referenced Beam Number	(300C,0006)	1	Uniquely identifies the Beam which is specified by Beam Number (300A,00C0) within Beam Sequence (300A,00B0) in RT Beams Module of referenced RT Plan or RT Ion Plan.
>Beam Order Index	(0074,1024)	3	Identifies required ordering of beam delivery, monotonically increasing by 1, starting from 1.
>Table Top Vertical Adjusted Position	(0074,01026)	2	Adjusted Table Top Vertical position in the IEC TABLE TOP coordinate system in mm for patient setup. See C.8.8.29.2.
>Table Top Longitudinal Adjusted Position	(0074,01027)	2	Adjusted Table Top Longitudinal position in the IEC TABLE TOP coordinate system in mm for patient setup. See C.8.8.29.2.
>Table Top Lateral Adjusted Position	(0074,01028)	2	Adjusted Table Top Lateral position in the IEC TABLE TOP coordinate system in mm for patient setup. See C.8.8.29.2.
>Patient Support Adjusted Angle	(0074,102A)	2	Adjusted Patient Support angle for patient setup, i.e. orientation of the IEC PATIENT SUPPORT coordinate system with respect to the IEC FIXED REFERENCE coordinate system in degrees. See C.8.8.29.2.
...			

*For information only:*

*Definition in PS 3.6, Appendix 6 Registry of DICOM data elements:*

## 6 Registry of DICOM data elements

Tag	Name	Keyword	VR	VM
...				
(0074,1026)	Table Top Vertical Adjusted Position	TableTopVerticalAdjustedPosition	FD	1
(0074,1027)	Table Top Longitudinal Adjusted Position	TableTopLongitudinalAdjustedPosition	FD	1
(0074,1028)	Table Top Lateral Adjusted Position	TableTopLateralAdjustedPosition	FD	1