

DICOM Correction Proposal

STATUS	Final Text
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Correction Number	CP-1504
Log Summary:	Add Accessory Code To Trays
Name of Standard	PS3.3 2015c
Rationale for Correction:	<p>While accessories of an RT Beam have accessory codes, their Trays (where present) does not have that facility. However, there are procedures, where the Block and/or Compensator is barcoded, and additionally the tray has a specific machine-readable code as well (could be a barcode as well, and also a fixed tray-specific code).</p> <p>The CP adds the Accessory Code Attribute to the Block and Compensator Tray.</p>
Correction Wording:	

In Part 3, add the following in section C.8.8.14 RT Beams Module.

C.8.8.14 RT Beams Module

Table C.8-50. RT Beams Module Attributes

Attribute Name	Tag	Type	Attribute Description
Beam Sequence	(300A,00B0)	1	Sequence of treatment beams for current RT Plan. One or more items shall be included in this sequence.
>Beam Number	(300A,00C0)	1	Identification number of the Beam. The value of Beam Number (300A,00C0) shall be unique within the RT Plan in which it is created. See Note 1.
>Beam Name	(300A,00C2)	3	User-defined name for Beam. See Note 1.
...			
>Compensator Sequence	(300A,00E3)	1C	Sequence of treatment compensators. One or more items shall be included in this sequence. Required if Number of Compensators (300A,00E0) is non-zero.
>>Compensator Description	(300A,02EB)	3	User defined description for the compensator.
>>Compensator Number	(300A,00E4)	1C	Identification number of the Compensator. The value of Compensator Number (300A,00E4) shall be unique within

Attribute Name	Tag	Type	Attribute Description
			the Beam in which it is created. Required if Number of Compensators (300A,00E0) is non-zero.
>>Compensator Type	(300A,00EE)	3	Type of compensator (if any). Defined Terms: STANDARD physical (static) compensator DYNAMIC moving Beam Limiting Device (collimator) simulating physical compensator
>>Material ID	(300A,00E1)	2C	User-supplied identifier for material used to manufacture Compensator. Required if Number of Compensators (300A,00E0) is non-zero.
>>Compensator ID	(300A,00E5)	3	User-supplied identifier for compensator.
>>Accessory Code	(300A,00F9)	3	An identifier for the accessoryCompensator intended to be read by a device such as a bar-code reader.
>>Compensator Tray ID	(300A,00EF)	3	User-supplied identifier for compensator tray.
>>Tray Accessory Code	(300A,0355)	3	An identifier for the Tray intended to be read by a device such as a bar-code reader.
>>Source to Compensator Tray Distance	(300A,00E6)	2	Radiation source to compensator tray attachment edge distance (in mm) for current compensator.
...			
>Number of Boli	(300A,00ED)	1	Number of boli associated with current Beam.
>Referenced Bolus Sequence	(300C,00B0)	1C	Sequence of boli associated with Beam. Required if Number of Boli (300A,00ED) is non-zero. One or more items shall be included in this sequence.
>>Referenced ROI Number	(3006,0084)	1	Uniquely identifies ROI representing the Bolus specified by ROI Number (3006,0022) in Structure Set ROI Sequence (3006,0020) in Structure Set Module within RT Structure Set in Referenced Structure Set Sequence (300C,0060) in RT General Plan Module.
>>Bolus ID	(300A,00DC)	3	User-supplied identifier for the Bolus.
>>Bolus Description	(300A,00DD)	3	User-defined description for the Bolus.
>>Accessory Code	(300A,00F9)	3	An identifier for the accessory intended to be read by a device such as a bar-code reader.
>Number of Blocks	(300A,00F0)	1	Number of shielding blocks associated with Beam.
>Total Block Tray Factor	(300A,00F2)	3	Total block tray transmission for all block trays (between 0 and 1) at the beam energy specified by the Nominal Beam Energy (300A,0114) of the first Control Point of the Control Point Sequence (300A,0111).
>Block Sequence	(300A,00F4)	1C	Sequence of blocks associated with Beam. One or more items shall be included in this sequence. Required if Number of Blocks (300A,00F0) is non-zero.
>>Block Tray ID	(300A,00F5)	3	User-supplied identifier for block tray.
>>Tray Accessory Code	(300A,0355)	3	An identifier for the Tray intended to be read by a

Attribute Name	Tag	Type	Attribute Description
			device such as a bar-code reader.
>>Accessory Code	(300A,00F9)	3	An identifier for the accessoryBlock intended to be read by a device such as a bar-code reader.
>>Source to Block Tray Distance	(300A,00F6)	2	Radiation Source to attachment edge of block tray assembly (mm).
>>Block Type	(300A,00F8)	1	Type of block. Enumerated Values: SHIELDING blocking material is inside contour APERTURE blocking material is outside contour

In Part 3, add the following in section C.8.8.21 RT Beams Session Record Module.

C.8.8.21 RT Beams Session Record Module

Table C.8-57. RT Beams Session Record Module Attributes

Attribute Name	Tag	Type	Attribute Description
Referenced Fraction Group Number	(300C,0022)	3	Identifier of Fraction Group within referenced RT Plan.
...			
Treatment Session Beam Sequence	(3008,0020)	1	Sequence of Beams administered during treatment session. One or more Items shall be included in this sequence.
>Referenced Beam Number	(300C,0006)	3	References Beam specified by Beam Number (300A,00C0) in Beam Sequence (300A,00B0) in RT Beams Module within referenced RT Plan.
>Beam Name	(300A,00C2)	3	User-defined name for delivered Beam.
...			
>Number of Compensators	(300A,00E0)	1	Number of compensators associated with current Beam.
>Total Compensator Tray Factor	(300A,00E2)	3	Compensator Tray transmission factor (between 0 and 1), at the beam energy specified by the Nominal Beam Energy (300A,0114) of the first Control Point of the Control Point Sequence (300A,0111).
>Compensator Sequence	(300A,00E3)	1C	Sequence of treatment compensators. One or more items shall be included in this sequence. Required if Number of Compensators (300A,00E0) is non-zero.
>>Compensator Description	(300A,02EB)	3	User defined description for the compensator.
>>Compensator Number	(300A,00E4)	1C	Identification number of the Compensator. The value of Compensator Number (300A,00E4) shall be unique within the Beam in which it is created. Required if Number of Compensators (300A,00E0) is non-zero.
>>Compensator Type	(300A,00EE)	3	Type of compensator (if any). Defined Terms: STANDARD physical (static) compensator

Attribute Name	Tag	Type	Attribute Description
			DYNAMIC moving Beam Limiting Device (collimator) simulating physical compensator
>>Material ID	(300A,00E1)	2C	User-supplied identifier for material used to manufacture Compensator. Required if Number of Compensators (300A,00E0) is non-zero.
>>Compensator ID	(300A,00E5)	3	User-supplied identifier for compensator.
>>Accessory Code	(300A,00F9)	3	An identifier for the accessoryCompensator - intended to be read by a device such as a bar-code reader.
>>Compensator Tray ID	(300A,00EF)	3	User-supplied identifier for compensator tray.
>>Tray Accessory Code	(300A,0355)	3	An identifier for the Tray intended to be read by a device such as a bar-code reader.
...			
>Number of Blocks	(300A,00F0)	2	Number of shielding blocks or Electron Inserts associated with Beam.
>Recorded Block Sequence	(3008,00D0)	3	Sequence of blocks associated with current Beam. One or more Items are permitted in this sequence.
>>Block Tray ID	(300A,00F5)	3	User-supplied identifier for block tray or Electron Insert.
>>Tray Accessory Code	(300A,0355)	3	An identifier for the Tray intended to be read by a device such as a bar-code reader.
>>Accessory Code	(300A,00F9)	3	An identifier for the accessoryBlock intended to be read by a device such as a bar-code reader.

In Part 3, add the following in section C.8.8.2 RT Image Module.

C.8.8.2 RT Image Module

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Table C.8-38. RT Image Module Attributes

Attribute Name	Tag	Type	Attribute Description
Samples per Pixel	(0028,0002)	1	Number of samples (planes) in this image. See Section C.8.8.2.6.1 for specialization.
...			
Exposure Sequence	(3002,0030)	3	Sequence of Exposure parameter sets, corresponding to exposures used in generating the image. One or more items are permitted in this sequence. See Section C.8.8.2.4.
>Referenced Frame Number	(0008,1160)	1C	Identifies corresponding image frame in multi-frame image. Required if there is more than one item in Exposure Sequence (3002,0030), and image is a multi-frame image.
...			

Attribute Name	Tag	Type	Attribute Description
>Number of Blocks	(300A,00F0)	1	Number of shielding blocks associated with Beam.
>Block Sequence	(300A,00F4)	2C	Sequence of blocks associated with Beam. Required if Number of Blocks (300A,00F0) is non-zero. Zero or more items shall be included in this sequence.
>>Block Tray ID	(300A,00F5)	3	User-supplied identifier for block tray.
>> <u>Tray Accessory Code</u>	<u>(300A,0355)</u>	3	<u>An identifier for the Tray intended to be read by a device such as a bar-code reader.</u>
>>Accessory Code	(300A,00F9)	3	An identifier for the accessoryBlock intended to be read by a device such as a bar-code reader.

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

<u>(300A,0355)</u>	<u>Tray Accessory Code</u>	<u>TrayAccessoryCode</u>	<u>LO</u>	<u>1</u>
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