

DICOM Correction Proposal

STATUS	Final Text
Date of Last Update	2012/01/16
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Correction Number	CP-1157
Log Summary: Correct RT Plan Module Conditionality	
Name of Standard PS 3.3 2011	
Rationale for Correction The RT Plan IOD has module inclusion conditionality constraints that differ from the intention of the IOD stated in Section A.20.3.1 (see last sentence). The current requirement excludes the possibility to have the RT beams Module or the RT Brachy Application Setups module present, if no Fraction Group Module exists. Further on, the presence of either RT Beams or RT Brachy Application Setups is intended to be mutually exclusive, since the RT Plan IOD is not suited to contain mixed modality definitions in real world. The use of mixed-modality plans (which is anyway only possible by using multiple fraction groups) has been never been practiced and would reveal a lot of interoperability problems. In fact, with PATIENT geometry it is unlikely to fulfill other requirements in respect to Structure Set references and the use of Frame of reference module for both modalities in real-world cases. Issues with keeping track of delivery etc. when combining multiple fraction groups with mixed modalities is hardly manageable safely. Using a single fraction group, the presence of beams versus brachy application setups is mutually exclusive anyway.	
Correction Wording:	

<i>PS 3.3 Section A.20.3</i>

A.20.3 RT Plan IOD Module Table

Table A.20.3-1—RT PLAN IOD MODULES

IE	Module	Reference	Usage
Patient	Patient	C.7.1.1	M
	Clinical Trial Subject	C.7.1.3	U
Study	General Study	C.7.2.1	M
	Patient Study	C.7.2.2	U
	Clinical Trial Study	C.7.2.3	U
Series	RT Series	C.8.8.1	M
	Clinical Trial Series	C.7.3.2	U
Frame of Reference	Frame of Reference	C.7.4.1	U - See Note.
Equipment	General Equipment	C.7.5.1	M
Plan	RT General Plan	C.8.8.9	M
	RT Prescription	C.8.8.10	U
	RT Tolerance Tables	C.8.8.11	U

RT Patient Setup	C.8.8.12	U
RT Fraction Scheme	C.8.8.13	U
RT Beams	C.8.8.14	C - Required if RT Fraction Scheme Module exists and Number of Beams (300A,0080) is greater than zero for one or more fraction groups. <u>Shall not be present, if RT Brachy Application Setups module is present. May be present otherwise.</u>
RT Brachy Application Setups	C.8.8.15	C - Required if RT Fraction Scheme Module exists and Number of Brachy Application Setups (300A,00A0) is greater than zero for one or more fraction groups. <u>Shall not be present, if RT Beams module is present. May be present otherwise.</u>
Approval	C.8.8.16	U
SOP Common	C.12.1	M

- Notes:
1. The RT Structure Set referenced in Referenced Structure Set Sequence (300C,0060) of the RT General Plan Module may contain more than one item in the Referenced Frame of Reference Sequence (3006,0010) in the Structure Set Module. In this case, it is highly recommended that the Frame of Reference Module be supplied in the RT Plan object, to unambiguously specify the frame of reference of the RT Plan contents.
 2. The Audio Module was previously included in this IOD but has been retired. See PS 3.3 2004.

A.20.3.1 RT FRACTION SCHEME MODULE

The RT Fraction Scheme module is structured to be used together with the RT Beams or RT Brachy Application Setups module. If beams are referenced in the RT Fraction Scheme module, all such beams shall be included in the RT Beams module if it is present. Similarly, if brachy application setups are referenced in the RT Fraction Scheme module, all such setups shall be included in the RT Brachy Application Setups module if it is present. However, the RT Fraction Scheme module can be used without the RT Beams or RT Brachy Application Setups modules if no beams or brachy application setups are referenced, and the RT Beams or RT Brachy Application Setups modules can also be used without the RT Fraction Scheme module if no fraction scheme information is available.