

DICOM Correction Proposal Form

Log Summary: Type definition of duplicate attributes	
Type of Modification Clarification	
Name of Document PS 3.3	Version Number 2000
<p>Rationale for Correction</p> <p>There are two conflicting rules regarding attributes, which are specified more than once in different modules as part of a single IOD. When the so-called “specialization”, i.e. the repetition of a specific attribute is of a Type higher than the initial Type specification, the second Type is expected to prevail. However, the Type definition (C1.2.3) states that when attributes are contained in more than one module the lowest Type should apply.</p> <p>This is a problem with the Modality attribute in the Secondary Capture IOD. The General Series module specifies Type 1, the SC Image module specifies Type 3. According to the rules specified in C.1.2.3, the Type Definition should be Type 1, obviously not the intent of this specialization.</p>	
Sections of document affected:	
Section 3.x, 6.2, C.1.2.3	

Suggested Wording of Correction

Modify section Definitions section 3 to add:

3.x Specialization: Specialization is the replacement of the Type, value range and/or description of an Attribute in a general module of an IOD, by its Type, value range and/or description defined in a modality specific module of an IOD.

Note: The same Attribute may be present in multiple Modules in the same IOD but not specified to be "Specialized".

Modify section 6.2:

6.2 Attributes

...

When multiple modules containing the same Attributes(s) are included in an IOD, the Attribute shall be encoded only once into a Data Element. ~~If one of the modules is a specialization of the other (e.g. General Image and CT Image) the Attribute definition, contained in the more specialized module shall be used.~~

Modify section C.1.2.3:

Some Attributes may also be contained in more than one Module for the IOD. In that case, the Type designation applicable for the Attribute of the specific IOD is the lowest Type value (e.g. if type 2 is specified in one Module and type 3 in another, then type 2 shall apply), unless explicitly stated by the Attribute description.

Modify Table C.8-24:

Attribute Name	Tag	Type	Attribute Description
Modality	(0008,0060)	3	Source equipment for the image. <u>This type definition shall override the definition in the general Series module.</u>