

DICOM Correction Item

Correction Number		CP-412
Log Summary: Clarify Type in SOP Common Module		
Type of Modification	Name of Standard	
Clarification	PS 3.3 2003	
Rationale for Correction <p>The WG6 Ad-Hoc Group on Publishing DICOM in XML is working to formalize the representation of IODs, Modules and Macros. This CP has emerged from this work and is necessary to enable a consistent XML representation. The CP is only intended to introduce a change in documentation. It is not intended to change the meaning of the standard.</p> <p>pSOP Class UID (0008,0016) and SOP Instance UID (0008,0018) in the SOP Common Modules do not follow the convention of explicitly encoding the Type designation within the Type column. Instead they include a reference to a subsection containing further explanation.</p> <p>The SOP Common Module is somewhat unusual since it is also used in Normalized IODs where Type information has no meaning outside the scope of a service.</p> <p>In the case of Macros, which are used in both Composite and Normalized IODs, the Type information is included but there is a general statement in PS 3.3 Section 5.4 that the specified Requirement Types and Conditions do not apply when invoked in the definition of Normalized IODs.</p> <p>This proposal moves the reference to the description column, clarifies that the Type for SOP Class UID and SOP Instance UID is 1 and adds a statement that the Type designations and Conditions in PS 3.3 only apply to Composite IODs.</p>		
Sections of documents affected <p>PS 3.3, Annex C, C.1.2.3 PS 3.3, Annex C, C.12.1</p>		
Correction Wording:		

2 *Item 1: Amend Annex C, C.1.2.3 of PS 3.3:*

C.1.2.3 Type Designation

4 Each Attribute contained in a Module referenced by a Composite IOD defines a Type
5 designation that indicates if a specific Attribute is required for all DIMSE
6 operations/notifications associated with a SOP Class using this Module. PS 3.5 defines a
7 choice of generic Type designations available for DICOM Attributes.

8 Note: The Type designation specified is generally determined by the value most appropriate for
9 the C-STORE DIMSE Service.

10 The Type designation given in a Module is a default value and as such may be overridden by
11 an IOD referencing the Module. Some Attributes may also be contained in more than one
12 Module for the IOD. In that case, the Type designation applicable for the Attribute of the
13 specific IOD is the lowest Type value (e.g. if type 2 is specified in one Module and type 3 in
14 another, then type 2 shall apply), unless explicitly stated by the Attribute description.

15 The Type designation given in a Module (and/or IOD) may also be overridden by Service Class
16 Definitions referencing the IOD containing the Module. PS 3.4 specifies the Service Class
17 Definitions.

18 **Modules referenced only by Normalized IODs do not contain Type**
19 **designations. Modules referenced by both Normalized IODs and Composite**
20 **IODs will contain a Type designation that only applies to Composite IODs and**
21 **any specific conditions for Conditional Types (type 1C and 2C) also only**
22 **apply to Composite IODs.**

24 *Item 2: Amend Annex C, C.12.1 of PS 3.3:*

26 **C.12 GENERAL MODULES**

The SOP Common Module shall be mandatory for all DICOM IODs.

28 **C.12.1 SOP Common Module**

29 Table C.12-1 defines the Attributes which are required for proper functioning and
30 identification of the associated SOP Instances. They do not specify any semantics about the
31 Real-World Object represented by the IOD.

32 **Table C.12-1
SOP COMMON MODULE ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
SOP Class UID	(0008,0016)	1See C.12.1.1.1	Uniquely identifies the SOP Class. See C.12.1.1.1 for further explanation. See also PS 3.4.
SOP Instance UID	(0008,0018)	1See C.12.1.1.1	Uniquely identifies the SOP Instance. See C.12.1.1.1 for further explanation. See also PS 3.4.
Specific Character Set	(0008,0005)	1C	Character Set that expands or replaces the Basic Graphic Set. Required if an expanded or replacement character set is used. See C.12.1.1.2 for Defined Terms.
Instance Creation Date	(0008,0012)	3	Date the SOP Instance was created.

Instance Creation Time	(0008,0013)	3	Time the SOP Instance was created.
Instance Creator UID	(0008,0014)	3	Uniquely identifies device which created the SOP Instance.
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C.12.1.1 SOP Common Attribute Descriptions

4 **C.12.1.1.1 SOP Class UID, SOP Instance UID**

The SOP Class UID and SOP Instance UID Attributes are defined for all DICOM IODs.

6 However, they are only encoded in Composite IODs with the Type equal to 1. **See C.1.2.3.**

8 When encoded they shall be equal to their respective Attributes in the DIMSE Services and the File Meta Information header (see PS 3.10 Media Storage).