

DICOM Correction Proposal

STATUS	Assigned
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Correction Number	CP-1604
Log Summary: Fix Type of Dimension Organization UID (within the Dimension Index Sequence)	
Name of Standard PS3.3	
<p>Rationale for Correction:</p> <p>Table C.7.6.17-1 (Multi-frame Dimension Module Attributes) in PS3.3 (Information Object Definitions) specifies that the Type of the Dimension Organization UID (0020,9164) attribute within the Dimension Index Sequence (0020,9222) is "1C", with the condition being "Required if the value of Dimension Organization Sequence (0020,9221) contains Items". However, with Supplement 43 (Storage of 3D Ultrasound Images) the Type of the referenced Dimension Organization Sequence (0020,9221) attribute changed from "2" to "1", so the Sequence should always contain Items (and, therefore, the condition should always be true).</p> <p>The proposal is to change the Type of the Dimension Organization UID (0020,9164) attribute within the Dimension Index Sequence (0020,9222) from "1C" to "1" and to remove the condition from the "Attribute Description" column.</p>	
Correction Wording:	

Change PS3.3 Section C.7.6.17

Table C.7.6.17-1. Multi-frame Dimension Module Attributes

Attribute Name	Tag	Type	Attribute Description
Dimension Organization Sequence	(0020,9221)	1	Sequence that lists the Dimension Organization UIDs referenced by the containing SOP Instance. See Section C.7.6.17.2 for further explanation. One or more Items shall be included in this Sequence.
>Dimension Organization UID	(0020,9164)	1	Uniquely identifies a set of dimensions referenced within the containing SOP Instance. See Section C.7.6.17.2 for further explanation.
Dimension Organization Type	(0020,9311)	3	Dimension organization of the instance. Defined Terms: 3D Spatial Multi-frame image of equally spaced parallel planes (3D volume set) 3D_TEMPORAL Temporal loop of equally spaced parallel-plane 3D

Attribute Name	Tag	Type	Attribute Description
			volume sets.
Dimension Index Sequence	(0020,9222)	1	Identifies the sequence containing the indices used to specify the dimension of the multi-frame object. One or more Items shall be included in this Sequence.
>Dimension Index Pointer	(0020,9165)	1	Contains the Data Element Tag that is used to identify the Attribute connected with the index. See Section C.7.6.17.1 for further explanation.
>Dimension Index Private Creator	(0020,9213)	1C	Identification of the creator of a group of private data elements. Required if the Dimension Index Pointer (0020,9165) value is the Data Element Tag of a Private Attribute.
>Functional Group Pointer	(0020,9167)	1C	Contains the Data Element Tag of the Functional Group Sequence that contains the Attribute that is referenced by the Dimension Index Pointer (0020,9165). See Section C.7.6.17.1 for further explanation. Required if the value of Dimension Index Pointer (0020,9165) is the Data Element Tag of an Attribute that is contained within a Functional Group Sequence.
>Functional Group Private Creator	(0020,9238)	1C	Identification of the creator of a group of private data elements. Required if the Functional Group Pointer 0020,9167) value is the Data Element Tag of a Private Attribute.
>Dimension Organization UID	(0020,9164)	1C	Uniquely identifies a set of dimensions referenced within the containing SOP Instance. In particular the dimension described by this sequence item is associated with this Dimension Organization UID. See Section C.7.6.17.2 for further explanation. Required if the value of Dimension Organization Sequence (0020,9221) contains Items
>Dimension Description Label	(0020,9421)	3	Free text description that explains the meaning of the dimension.