

DICOM Correction Proposal

STATUS	Voting Packet
Date of Last Update	2016/11/09
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Correction Number	CP-1662
Log Summary: Define the encoding order for OPT Attribute Reference Coordinates (0022,0032)	
Name of Standard PS 3 2016d	
<p>Rationale for Correction:</p> <p>Attribute Reference Coordinates (0022,0032) is used in the OPT IOD so a frame can be described in terms of its position (row/column coordinates) to another image (i.e., typically an OP image used as a scout image for the OPT slice). The order of encoding the coordinates are not explicitly defined in the attribute description.</p> <p>Explanatory text about the attribute implies the order as row/column (see below) and also WG9 has investigated this with multiple (4) OPT device implementations and all implementations encode the data as row/column. So the attribute description needs to be updated to convey this choice.</p> <p>The “implied wording” already in the document in Section c.8.17.10.1.1 is as follows:</p> <p>“b. Reference Coordinates (0022,0032) would contain values that give the row and column coordinates for the image pixel on the referenced image that corresponds to the first column of the OPT Frame 1 and the row and column coordinates that corresponds to the last column of the OPT Frame 1.”</p>	
Correction Wording:	
<i>Update attribute Reference Coordinates (0022,0032) in Table C.8.17.10-1</i>	

Table C.8.17.10-1. Ophthalmic Frame Location Macro Attributes

Attribute Name	Tag	Type	Attribute Description
Ophthalmic Frame Location Sequence	(0022,0031)	1	Specifies the column locations for this frame in terms of locations on a referenced image. One or more Items shall be included in this Sequence.
<i>>Include Table 10-3 “Image SOP Instance Reference Macro Attributes”</i>			
>Purpose of Reference Code Sequence	(0040,A170)	3	Describes the purpose for which the reference is made. Only a single Item is permitted in this Sequence.
<i>>>Include Table 8.8-1 “Code Sequence Macro Attributes”</i>			Defined Code Concept for Purpose of Reference is (121311, DCM, "Localizer")
>Reference Coordinates	(0022,0032)	1	Image coordinates for the points on the referenced image that correspond to the points on this frame. See Section C.8.17.10.1.1.

Attribute Name	Tag	Type	Attribute Description
			<p><u>Given as row/column. Row is the vertical offset and column is the horizontal offset.</u></p> <p><u>Image relative position specified with sub-pixel resolution such that the origin at the Top Left Hand Corner (TLHC) of the TLHC pixel is 0.0\0.0, the Bottom Right Hand Corner (BRHC) of the TLHC pixel is 1.0\1.0, and the BRHC of the BRHC pixel is Rows/Columns (see figure C.10.5-1). The values must be within the range 0\0 to Rows /Columns.</u></p> <p>Note <u>Normal DICOM convention defines encoding of coordinates as column/row. This Attribute is encoded as row/column.</u></p>
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