

DICOM Correction Item

Correction Number	CP-1099
Log Summary:	Allow SCOORD on WSI Total Matrix
Type of Modification	Name of Standard
Modification	PS 3.3-2011
Rationale for Correction: The recently completed Sup145 adjusted the annotation capabilities of Presentation States to allow annotations on the Total Pixel Matrix, rather than only on the pixels of an individual frame. A similar adjustment is added to SCOORD.	
Sections of documents affected PS 3.3 Section C.18.6	
Correction Wording:	

**Table C.18.6-1
SPATIAL COORDINATES MACRO ATTRIBUTES**

Attribute Name	Tag	Type	Attribute Description
Graphic Data	(0070,0022)	1	An ordered set of (column,row) pairs that denote positions in an image specified with sub-pixel resolution such that the origin at the TLHC of the TLHC pixel is 0.0\0.0, the BRHC of the TLHC pixel is 1.0\1.0, and the BRHC of the BRHC pixel is Columns\Rows. The values must be within the range 0\0 to Columns\Rows. The maximum values Columns (0028,0011) and Rows (0028,0010) are those contained in the referenced image in attributes Columns (0028,0011) and Rows (0028,0010), or in the case of spatial coordinates with Pixel Origin Interpretation (0048,0301) value VOLUME, in attributes Total Pixel Matrix Columns (0048,0006) and Total Pixel Matrix Rows (0048,0007). See C.18.6.1.1 for further explanation.
Graphic Type	(0070,0023)	1	See C.18.6.1.2 for Enumerated Values.

<p><u>Pixel Origin Interpretation</u></p>	<p><u>(0048,0301)</u></p>	<p><u>1C</u></p>	<p><u>For a referenced multi-frame image, specifies whether the Graphic Data (0070,0022) values are to be interpreted relative to the individual frame pixel origins, or relative to the Total Pixel Matrix origin (see C.8.12.X2.1.4).</u></p> <p><u>Required if the value of Referenced SOP Class UID (0008,1150) of the referenced image is 1.2.840.10008.5.1.4.1.1.77.1.6 (VL Whole Slide Microscopy Image). May be present otherwise.</u></p> <p><u>Enumerated Values:</u></p> <p><u>FRAME – relative to individual frame</u></p> <p><u>VOLUME – relative to Total Image Matrix</u></p> <p><u>If not present, Graphic Data values are defined relative to the frame pixel origin.</u></p>
<p>Fiducial UID</p>	<p>(0070,031A)</p>	<p>3</p>	<p>The globally unique identifier for this fiducial item.</p> <p>Note: The fiducial UID can be used to associate this set of graphics with other Content Items.</p>