

DICOM Correction Proposal Form

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| Tracking Information - Administration Use Only | |
| Correction Proposal Number | CP-237 |
| STATUS | |
| Date of Last Update | 5/11/2001 |
| Person Assigned | Harry Solomon |
| Submitter Name | Harry Solomon |
| Submission date | 12/19/2000 |

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| Correction Number CP-237 | |
| Log Summary: Clarify Definition of Collimator Attributes | |
| Type of Modification | Name of Standard |
| Clarification | PS 3.3-2000 |
| Rationale for Correction The X-Ray Collimator Module is unclear in its definition of the "edge" of the collimator. Both the X-Ray Collimator Module and the Shutter Module are unclear in their definition of a polygon. | |
| Sections of documents affected Modify PS 3.3, Section C.7.6.1, Table C.7-17; Section C.8.7.3, Table C.8-28; and add new subsection C.8.7.3.1. | |
| Correction Wording: | |

**Table C.7-17
DISPLAY SHUTTER MODULE**

| Attribute Name | Tag | Type | Attribute Description |
|-----------------------------------|-------------|-------------|---|
| ... | | | |
| Vertices of the Polygonal Shutter | (0018,1620) | 1C | <p>Required if Shutter Shape (0018,1600) is POLYGONAL.</p> <p>Multiple Values where the first set of two values are:</p> <p style="padding-left: 40px;">row of the origin vertex column of the origin vertex</p> <p>Two or more pairs of values follow and are the row and column coordinates of the other vertices of the polygon shutter. Polygon shutters are implicitly closed from the last vertex to the origin vertex are and all edges shall be non-intersecting except at the vertices polygons.</p> |

**Table C.8-28
X-RAY COLLIMATOR MODULE ATTRIBUTES**

| Attribute Name | Tag | Type | Attribute Description |
|----------------------------------|-------------|-------------|--|
| ... | | | |
| Collimator Left Vertical Edge | (0018,1702) | 1C | Required if Collimator Shape (0018,1700) is RECTANGULAR. Location of the left edge of the rectangular collimator with respect to pixels in the image given as column. See C.8.7.3.1.1. |
| Collimator Right Vertical Edge | (0018,1704) | 1C | Required if Collimator Shape (0018,1700) is RECTANGULAR. Location of the right edge of the rectangular collimator with respect to pixels in the image given as column. See C.8.7.3.1.1. |
| Collimator Upper Horizontal Edge | (0018,1706) | 1C | Required if Collimator Shape (0018,1700) is RECTANGULAR. Location of the upper edge of the rectangular collimator with respect to pixels in the image given as row. See C.8.7.3.1.1. |
| Collimator Lower Horizontal Edge | (0018,1708) | 1C | Required if Collimator Shape (0018,1700) is RECTANGULAR. Location of the lower edge of the rectangular collimator with respect to pixels in the image given as row. See C.8.7.3.1.1. |
| ... | | | |

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|--------------------------------------|-------------|----|--|
| Vertices of the Polygonal Collimator | (0018,1720) | 1C | <p>Required if Collimator Shape (0018,1700) is POLYGONAL.</p> <p>Multiple Values where the first set of two values are:</p> <p style="padding-left: 40px;">row of the origin vertex;</p> <p style="padding-left: 40px;">column of the origin vertex.</p> <p>Two or more pairs of values follow and are the row and column coordinates of the other vertices of the polygon collimator. Polygon collimators are implicitly closed from the last vertex to the origin vertex are and all edges shall be non-intersecting except at the vertices polygons.</p> |
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C.8.7.3.1 X-Ray Collimator Attribute Descriptions

C.8.7.3.1.1 Collimator Vertical and Horizontal Edges

The Collimator Edge attributes specify the pixel row or column where the X-ray beam is fully obscured by the collimator. Thus if the left edge of the colimator is not seen in an image, the image will have a Collimator Left Vertical Edge value of 0; if the right edge of the colimator is not seen, the Collimator Right Vertical Edge value will be 1 greater than the Number of Columns.