DICOM Correction Proposal

**STATUS**
New

**Date of Last Update**
2012/08/08

**Person Assigned**

**Submitter Name**
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**Submission Date**
2012/06/12

**Correction Number**
CP-1243

**Log Summary:** Common Instance Reference Module in Image and Radiotherapy IODs

**Name of Standard**
PS 3 2011

**Rationale for Correction:**
Images contain the General Image module with the type 3 attribute Referenced Image Sequence (0008,1140) containing references to other instances. These references only consist of Referenced SOP Class UID (0008,1150), References SOP Instance UID (0008,1155) and conditionally either the Referenced Frame Number (0008,1160) or Referenced Segment Number (0062,000B). With these attributes it is not possible to retrieve these referenced instances via the DICOM Query Retrieve Service Class since there - for hierarchical C-FIND, C-MOVE or C-GET requests - we need at least the Study Instance UID (0020,000D) and Series Instance UID (0020,000E).

To allow applications to retrieve the referenced instances all Image and Radiotherapy Composite IODs shall contain optionally the Common Instance Reference Module which allows to add the study and series references.

**Correction Wording:**

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**Apply changes to PS 3.3, Section A.1.4**

**A.1.4 Overview of the Composite IOD Module Content**

In Table A.1-1 in row 'Common Instance Reference' add a type 'U' for the following columns:

<table>
<thead>
<tr>
<th>CR</th>
<th>CT</th>
<th>Enh</th>
<th>MR</th>
<th>Enh</th>
<th>MR</th>
<th>NM</th>
<th>US</th>
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<td>MF</td>
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<td>SC</td>
<td>MF</td>
<td>TC</td>
<td>XA</td>
<td>Enh</td>
<td>XA</td>
<td>RF</td>
<td>Enh</td>
<td>XRF</td>
<td>3D</td>
<td>XA</td>
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</tbody>
</table>

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Page 1
In Table A.1-5 in row 'Common Instance Reference' add a type 'U' for the following columns:

<table>
<thead>
<tr>
<th>RT Dose</th>
<th>RT Struc Set</th>
<th>RT Plan</th>
<th>RT Beam Rec</th>
<th>RT Brachy Rec</th>
<th>RT Sum</th>
<th>RT Ion Plan</th>
<th>RT Ion Beams Treat Rec</th>
</tr>
</thead>
</table>

Apply changes to PS 3.3, Section A

Add the following row

<table>
<thead>
<tr>
<th>Common Instance Reference</th>
<th>C.12.2</th>
<th>U</th>
</tr>
</thead>
</table>

to the Module Tables in the following sections:

A.2.3    CR Image IOD Module Table  
A.3.3    CT Image IOD Module Table  
A.4.3    MR Image IOD Module Table  
A.5.4    NM Image IOD Module Table  
A.6.4    US Image IOD Module Table  
A.7.4    US Multi-Frame Image IOD Module Table  
A.8.1.3  SC Image IOD Module Table  
A.8.2.3  Multi-frame Single Bit SC Image IOD Module Table  
A.8.3.3  Multi-frame Grayscale Byte SC Image IOD Module Table  
A.8.4.3  Multi-frame Grayscale Word SC Image IOD Module Table  
A.8.5.3  Multi-frame True Color SC Image IOD Module Table  
A.14.3   XA Image IOD Module Table  
A.16.3   XRF Image IOD Module Table  
A.17.3   RT Image IOD Module Table  
A.18.3   RT Dose IOD Module Table  
A.19.3   RT Structure Set IOD Module Table  
A.20.3   RT Plan IOD Module Table  
A.21.3   PET Image IOD Module Table  
A.26.3   DX Image IOD Module Table  
A.27.2   Digital Mammography X-Ray Image IOD Module Table  
A.28.2   Digital Intra-oral X-Ray Image IOD Module Table  
A.29.3   RT Beams Treatment Record IOD Module Table  
A.30.3   RT Brachy Treatment Record IOD Module Table  
A.31.3   RT Treatment Summary Record IOD Module Table  
A.32.1.2 VL Endoscopic Image IOD Entity-Relationship Model  
A.32.2.2 VL Microscopic Image IOD Entity-Relationship Model  
A.32.3.2 VL Slide-Coordinates Microscopic Image IOD Entity-Relationship Model  
A.32.4.2 VL Photographic Image IOD Entity-Relationship Model  
A.32.5.2 Video Endoscopic Image IOD Entity-Relationship Model  
A.32.6.2 Video Microscopic Image IOD Entity-Relationship Model
A.32.7.2 Video Photographic Image IOD Entity-Relationship Model
A.32.8.3 VL Whole Slide Microscopy IOD Module Table
A.36.2.3 Enhanced MR Image IOD Module Table
A.36.4.3 Enhanced MR Color Image IOD Module Table
A.38.1.3 Enhanced CT Image IOD Module Table
A.41.3 Ophthalmic Photography 8 Bit Image IOD Modules
A.42.3 Ophthalmic Photography 16 Bit Image IOD Modules
A.47.3 Enhanced XA Image IOD Module Table
A.48.3 Enhanced XRF Image IOD Module Table
A.49.2 [RT Ion Plan] IOD Modules
A.50.2 [RT Ion Beams Treatment Record] IOD Modules
A.52.3 Ophthalmic Tomography Image IOD Modules
A.53.3 X-Ray 3D Angiographic Image IOD Image Module Table
A.54.3 X-Ray 3D Craniofacial Image IOD Module Table
A.55.3 Breast Tomosynthesis Image IOD Module Table
A.56.1.3 Enhanced PET Image IOD Module Table
A.59.3 Enhanced US Volume IOD Module Table