DICOM Correction Proposal

<table>
<thead>
<tr>
<th>STATUS</th>
<th>Assigned</th>
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</thead>
<tbody>
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<td>Date of Last Update</td>
<td>2023/06/30</td>
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<tr>
<td>Person Assigned</td>
<td>Clunie</td>
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<tr>
<td>Submitter Name</td>
<td>Krister Valtonen (<a href="mailto:krister.valtonen@sectra.com">krister.valtonen@sectra.com</a>)</td>
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<tr>
<td>Submission Date</td>
<td>2023/04/27</td>
</tr>
</tbody>
</table>

Correction Number  
CP-2304

Log Summary:  Use the Group Number term correctly

Name of Standard  
PS3.5

Rationale for Correction:  
Several parts of chapter 5 mention Group Numbers but specifies them using Data Element Tags. This is confusing as it mixes the concepts of Group Number and Data Element Tag. Several other places in chapter 5 refers to Group Numbers correctly.

Correction Wording:

**In PS 3.5, modify 3.10 DICOM Data Structures and Encoding Definitions**

Repeating Group  
Standard Data Elements within a particular range of Group Numbers where Data Elements that have identical Element Numbers have the same meaning within each Group (and the same VR, VM, and Data Element Type). Repeating Groups shall only exist for Curves and Overlay Planes (Group Numbers 50xx,eeee and 60xx,eeee, respectively and are a remnant of older versions of this Standard.

**In PS 3.5, modify 7.1 Data Elements**

- Standard Data Elements have an even Group Number that is not (0000,eeee), (0002,eeee), (0004,eeee), or (0006,eeee)0000, 0002, 0004 or 0006.

- Private Data Elements have an odd Group Number that is not (0001,eeee), (0003,eeee), (0005,eeee), (0007,eeee), or (FFFF,eeee)0001, 0003, 0005, 0007 or FFFF. Private Data Elements are discussed further in Section 7.8.

**In PS 3.5, modify 7.6 Repeating Groups**

Multiple Overlay Planes and Curves are often associated with a single Image (see PS3.3). Standard Data Elements with even Group Numbers (5000-501E,eeee)5000-501E represent Curves, while Data Elements with even Group Numbers (6000-601E,eeee)6000-601E represent Overlay Planes. Both of these ranges of Group numbers are known as Repeating Groups. This use of group numbers is a remnant of older versions of this Standard, which associated a semantic meaning with particular Groups.

In each of these ranges of Group Numbers, Standard Data Elements that have identical Element Numbers have the same meaning within each Group (and the same VR, VM, and Data Element Type).
The notation (50xx,eee) and (60xx,eee) are used for the Group Number in Data Element Tags when referring to a common Data Element across these groups (see PS3.6). Groups (50xx,eee)50xx and (60xx,eee)60xx are called Repeating Groups because of these characteristics.

Repeating Groups shall only be allowed in the even Groups (6000-601E,eee)6000-601E and even Groups (5000-501E,eee)5000-501E cases. In the future, Data Elements with VRs of SQ shall be used to serve a similar purpose.

Note

Private Groups in the odd Groups (5001-501F,eee)5001-501F and (6001-601F,eee)6001-601F may still be used, but there is no implication of repeating semantics, nor any implied shadowing of the standard repeating groups.