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<td>Date of Last Update</td>
<td>2020/07/04</td>
</tr>
<tr>
<td>Person Assigned</td>
<td>David Clunie</td>
</tr>
<tr>
<td><a href="mailto:dclunie@dclunie.com">mailto:dclunie@dclunie.com</a></td>
<td></td>
</tr>
<tr>
<td>Submitter Name</td>
<td>Imaging Data Commons (IDC)</td>
</tr>
<tr>
<td>Submission Date</td>
<td>2019/12/27</td>
</tr>
</tbody>
</table>

Correction Number CP-1998

Log Summary: Relax unnecessary TID 1500 requirements to simplify for some AI/ML use cases

Name of Standard

PS3.16

Rationale for Correction:

TID 1500 requires a Language, Procedure Reported, an empty section (CONTAINER) for the Image Library, and both Tracking Identifier and Unique Identifier, all of which complicate the "simplest" example used in Sup 219 (JSON).

It is proposed to modify TID 1500 to relax these requirements that are not needed for many simple AI/ML use cases for which the information is either not available or unnecessary. E.g., it would be harmless to omit an empty Image Library CONTAINER), and Procedure Reported may not be known and will often be a dummy value based on Modality only, and the Language is irrelevant for measurements (though not for code meanings of coded concepts, but could be assumed or just left unstated). The Tracking Identifier and Unique Identifier are not needed when there is only one lesion and no temporal change tracking is needed for the use case.

Correction Wording:
Amend PS3.16 as follows (changes to existing text are bold and *underlined* for additions and *struckthrough* for removals):

**TID 1500 Measurement Report**

Table TID 1500. Measurement Report

<table>
<thead>
<tr>
<th>NL</th>
<th>Rel with Parent</th>
<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>CONTAINER</td>
<td>DCID 7021 &quot;Measurement Report Document Titles&quot;</td>
<td>1</td>
<td>M</td>
<td></td>
<td>Root node</td>
</tr>
<tr>
<td>2</td>
<td>&gt; HAS CONCEPT MOD</td>
<td>INCLUDE</td>
<td>DTID 1204 &quot;Language of Content Item and Descendants&quot;</td>
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<td><strong>MU</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>&gt; HAS OBS CONTEXT</td>
<td>INCLUDE</td>
<td>DTID 1001 &quot;Observation Context&quot;</td>
<td>1</td>
<td>M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>&gt; HAS CONCEPT MOD</td>
<td>CODE</td>
<td>EV (121058, DCM, &quot;Procedure reported&quot;)</td>
<td>1-n</td>
<td><strong>MU</strong></td>
<td></td>
<td>BCID 100 &quot;Quantitative Diagnostic Imaging Procedures&quot;</td>
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<td>5</td>
<td>&gt; CONTAINS</td>
<td>INCLUDE</td>
<td>DTID 1600 &quot;Image Library&quot;</td>
<td>1</td>
<td><strong>MU</strong></td>
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<tr>
<td>6</td>
<td>&gt; CONTAINS</td>
<td>CONTAINER</td>
<td>EV (126010, DCM, &quot;Imaging Measurements&quot;)</td>
<td>1</td>
<td>C</td>
<td>IF row 10 and 12 are absent</td>
<td></td>
</tr>
<tr>
<td>...</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>9</td>
<td>&gt;&gt; CONTAINS</td>
<td>INCLUDE</td>
<td>DTID 1501 &quot;Measurement and Qualitative Evaluation Group&quot;</td>
<td>1-n</td>
<td>U</td>
<td></td>
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<td>...</td>
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</table>

**TID 1501 Measurement and Qualitative Evaluation Group**

Table TID 1501. Measurement and Qualitative Evaluation Group

<table>
<thead>
<tr>
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<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
<th>Condition</th>
<th>Value Set Constraint</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>CONTAINER</td>
<td>EV (125007, DCM, &quot;Measurement Group&quot;)</td>
<td>1</td>
<td>M</td>
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</tr>
<tr>
<td>2</td>
<td>&gt; HAS OBS CONTEXT</td>
<td>TEXT</td>
<td>DT (112039, DCM, &quot;Tracking Identifier&quot;)</td>
<td>1</td>
<td><strong>MU</strong></td>
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</tr>
<tr>
<td>3</td>
<td>&gt; HAS OBS CONTEXT</td>
<td>UIDREF</td>
<td>EV (112040, DCM, &quot;Tracking Unique Identifier&quot;)</td>
<td>1</td>
<td><strong>MU</strong></td>
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</tbody>
</table>

Rows 2, 3, 10

The included TID 300 already contains an optional inclusion of TID 1408 Tracking Identifier, which in turns allows for either or both Tracking Identifier and Tracking Unique Identifier Content Items; the intent of Rows 2 and 3 is not to send these Content Items twice, but rather to specialize their use such that their presence is mandatory, consistent with TIDs 1410 and 1411.

...
TID 1410 Planar ROI Measurements and Qualitative Evaluations

Table TID 1410. Planar ROI Measurements and Qualitative Evaluations

<table>
<thead>
<tr>
<th>NL</th>
<th>Rel with Parent</th>
<th>VT</th>
<th>Concept Name</th>
<th>VM</th>
<th>Req Type</th>
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</thead>
<tbody>
<tr>
<td>2</td>
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<td>TEXT</td>
<td>DT (112039, DCM, “Tracking Identifier”)</td>
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<td>&gt; HAS OBS CONTEXT</td>
<td>UIDREF</td>
<td>EV (112040, DCM, “Tracking Unique Identifier”)</td>
<td>1</td>
<td>MU</td>
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TID 1411 Volumetric ROI Measurements and Qualitative Evaluations

Table TID 1411. Volumetric ROI Measurements and Qualitative Evaluations

<table>
<thead>
<tr>
<th>NL</th>
<th>Rel with Parent</th>
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<tbody>
<tr>
<td>2</td>
<td>&gt; HAS OBS CONTEXT</td>
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<td>DT (112039, DCM, “Tracking Identifier”)</td>
<td>1</td>
<td>MU</td>
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<tr>
<td>3</td>
<td>&gt; HAS OBS CONTEXT</td>
<td>UIDREF</td>
<td>EV (112040, DCM, “Tracking Unique Identifier”)</td>
<td>1</td>
<td>MU</td>
<td></td>
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</tr>
</tbody>
</table>