DICOM Correction Proposal

<table>
<thead>
<tr>
<th>STATUS</th>
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<tr>
<td>Date of Last Update</td>
<td>2016/05/25</td>
</tr>
<tr>
<td>Person Assigned</td>
<td>Robert Horn</td>
</tr>
<tr>
<td>Submitter Name</td>
<td>William Lingley</td>
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<td>Submission date</td>
<td>2013/09/11</td>
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Correction Number: CP-1362

Log Summary: Correct AuditSourceIdentification in DICOM audit message

Type of Modification: Correction
Name of Standard: PS3.15 2016b

Rationale for Correction:
Between the Trial Use Draft and Final Text versions of DICOM Supplement 95, the DICOM audit message schema representation in PS 3.15 was changed from an XSD schema to a RELAX NG schema. The content of the schema was changed during that conversion, changing the representation of the AuditSourceIdentification element and making it inconsistent with the audit message example in PS 3.17.

The original XSD schema represents the audit message example in PS 3.17 and results in an AuditSourceIdentification element as follows:

```xml
<AuditSourceIdentification AuditEnterpriseSiteID="Hospital" AuditSourceID="ReadingRoom">
  <AuditSourceTypeCode code="1"/>
</AuditSourceIdentification>
```

The RELAX NG schema results in an AuditSourceIdentification element as follows:

```xml
<AuditSourceIdentification code="1" AuditEnterpriseSiteID="Hospital" AuditSourceID="ReadingRoom">
  <AuditSourceTypeCode>222</AuditSourceTypeCode>
</AuditSourceIdentification>
```

It may also be possible that the schema change was made on purpose, in which case the correction may be applicable to PS 3.17.

Sections of documents affected
PS 3.15 A.5.1

Correction Wording:

Modify PS 3.15 to correct the RELAX NG schema:

A.5.1 DICOM Audit Message Schema

```plaintext
# Define AuditSourceIdentification, used later
```
# Note: This includes one constraint that cannot be represented yet in RNC. The use of a token other than the specified codes is permitted only if the codeSystemName is present.
# Note: This has no elements, only attributes.

AuditSourceIdentificationContents =
    attribute code {
        "1" | ## End-user display device, diagnostic device
        "2" | ## Data acquisition device or instrument
        "3" | ## Web Server process or thread
        "4" | ## Application Server process or thread
        "5" | ## Database Server process or thread
        "6" | ## Security server, e.g., a domain controller
        "7" | ## ISO level 1-3 network component
        "8" | ## ISO level 4-6 operating software
        "9" | ## other
        token }, ## other values are allowed if a codeSystemName is present
other-csd-attributes?, ## If these are present, they define the meaning of code
    attribute AuditEnterpriseSiteID {token}?,
    attribute AuditSourceID {token},
    element AuditSourceTypeCode {token AuditSourceTypeCodeContent }*

# Define AuditSourceTypeCodeContent so that an isolated single digit value is acceptable, or a token with other csd attributes so that any controlled terminology can also be used.
AuditSourceTypeCodeContent =
    attribute code {
        "1" | ## End-user display device, diagnostic device
        "2" | ## Data acquisition device or instrument
        "3" | ## Web Server process or thread
        "4" | ## Application Server process or thread
        "5" | ## Database Server process or thread
        "6" | ## Security server, e.g., a domain controller
        "7" | ## ISO level 1-3 network component
        "8" | ## ISO level 4-6 operating software
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token }, ## other values are allowed if a codeSystemName is present
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