MINUTES
DICOM WG-06 Base Standard
November 4-8, 2019
MITA HQ, Arlington, VA

Presiding Officers: Bjorn Nolte, Siemens Healthineers, Chair
David Clunie, PixelMed, DICOM Editor
DICOM Secretariat Luiza Kowalczyk, MITA/NEMA

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<th>Present</th>
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<th>Last Name</th>
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</table>
The meeting was called to order at 8:30 a.m. on Monday, November 4, 2019. The minutes of the September WG-06 meeting were approved. The Secretary reviewed the antitrust rules and DICOM Patent Disclosure Policy. The agenda was approved.
Report on Letter Ballots

1. Supplement 176 Tomotherapeutic, Multiple Fixed Source and Robotic-Arm Treatment Modalities (2nd Gen.) [WI 2007-06-B]

<table>
<thead>
<tr>
<th>Ballot</th>
<th>Approve</th>
<th>Disapprove</th>
<th>Abstain</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sup 176</td>
<td>19</td>
<td>0</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

2. CPack-103
   - The official ballot was distributed to voting members of DICOM Standard Committee September 16, 2019.
   - The deadline: Monday, November 4, 2019.
   - The CPack-103 has passed the ballot with the following results:

<table>
<thead>
<tr>
<th>Ballot</th>
<th>Approve</th>
<th>Disapprove</th>
<th>Abstain</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPack-103</td>
<td>22</td>
<td>2</td>
<td>3</td>
<td>24</td>
</tr>
</tbody>
</table>

Report on Correction Proposals

SECRETARY NOTES:
- Remember that we have CP t-cons between face to face meetings so please read the minutes:
  - [https://www.dicomstandard.org/wgs/](https://www.dicomstandard.org/wgs/)
- The CP excel spreadsheet is updated after each CP discussion. Make sure to always look at the latest version.

   - 1721 Clarification of Distances in Ion Beams
     - No comments received. Good to go.
   - 1726 Add clarification note that C-FIND SCP should ignore
     - No comments received. Good to go.
   - 1777 Derivation of Photometric Interpretation in STOW-RS
     - No comments received. Good to go.
   - 1852 Add code for bounding box for SR
     - Good to go.
   - 1867- Add codes for AI visual explanation maps
     - No comments
   - 1886 Add trans-rectal to ultrasound beam path context group
     - Good to go.
   - 1888 Reverse sense of all other encoding based on VR to follow
     - Good to go.
   - 1890 Add more renal vessels
     - Good to go.
   - 1891 Add generic echocardiography measurements missing from
• Good to go.

1892 Correct code meanings for body surface area codes
  o Good to go.

1893 Fix inconsistent Relationship Content Constraints (SR IODs from Supplement 164)
  o No comments received. Good to go.

1894 Add translocator protein tracers
  o No comments received. Good to go.

1895 Add presentation address to file meta information for DULP and Web Services
  o No comments received. Good to go.

1899 Number of Frames attribute should never have a value of zero
  o No comments received. Good to go.

1900 WADO-RS Transfer Syntax to use when cannot be decompressed
  o No comments received. Good to go.

1901 Return in query response what Transfer Syntax is available for retrieval
  o Good to go.

1902 Some IODs that need it are missing the Synchronization Module
  o Good to go.

1903 Add laterality parameter to TID 300
  o Good to go.

1904 Correct code for anatomical structure in CID 7150 and CID 9501
  o No comments received. Good to go.

1905 Additional Category codes for CID 9502
  o No comments received. Good to go.

1906 Add Laterality to Treatment Site Code
  o Good to go.

1907 UPS-RS Support for Query Only
  o Good to go.

1909 Add Institution and Admission attributes to UPS
  o No comments received. Good to go.

1910 Add "all other attributes" row for Patient Demographics to UPS
  o Good to go.

1911 Add Reason For Requested Procedure Query Keys to UPS
  o Good to go.

1912 Correct Retired Attributes in PS3.15 E
  o Good to go

1913 Coding Scheme Version requires Coding Scheme Designator to be present
  o Good to go.

CPack-103 was approved on 11/5/2019, except for the following CPs below.

• 1614 Add a bulkdata subresource to study, series and instance WADO-RS
  o WG-27 needs to review comments received during the ballot process. It will be revisited in January 2020. See the CP for details.

• 1868 Update PS3.18 Status Codes to be correct HTTP
  o It is on hold. It requires further discussion with Jim.

• 1869 Update PS3.18 Header Fields to include origin server and user agent permissions requirements
  o It is on hold. It requires further discussion with Jim.

• 1871 Improve Notification Connections
It is on hold. It requires further discussion with Jim.

- **1872** Improvements to Worklist Service
  - WG-06 is proposing cancel this CP, not adding anything new.
  - Follow up with Jim.

- **1885** Correct conflict in number of values between General Anatomy Optional and Required Macros causing conflict in DX introduced by CP 1744
  - Cancelled

### 4. November Voting Package, CPack-104.

The 2 CPs below were not included in CPack-104.

- **CP-1916** The grammar for the “quality” Query Parameter in wrong
  - It was not uploaded on the ftp server, so it was not discussed during this meeting.

- **CP-1917** Clarify Character Set handling
  - Requires further discussion with Jim Philbin.

The following CPs were approved for a Letter Ballot, CPack-104.

<table>
<thead>
<tr>
<th>CP#</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>1954</td>
<td>Fix inconsistent DIMSE status code meaning</td>
</tr>
<tr>
<td>1953</td>
<td>Add more specific tumor graft histologic types</td>
</tr>
<tr>
<td>1952</td>
<td>Remove common name from taxonomic rank code meanings</td>
</tr>
<tr>
<td>1949</td>
<td>Specify the identity window level values</td>
</tr>
<tr>
<td>1948</td>
<td>Part 10 Format security considerations</td>
</tr>
<tr>
<td>1947</td>
<td>Add security considerations for encapsulated formats</td>
</tr>
<tr>
<td>1946</td>
<td>Update Part 15 Annex H (add conformance)</td>
</tr>
<tr>
<td>1945</td>
<td>Add coding scheme designator for RadElement</td>
</tr>
<tr>
<td>1943</td>
<td>Incorrect Frame Time's value for Video Type 60 Hz HD</td>
</tr>
<tr>
<td>1942</td>
<td>Revise Part 15 Annex F (DHCP)</td>
</tr>
<tr>
<td>1941</td>
<td>Change name of TID 11003 for better comprehensibility in context with changes of CP-1937 in the cases of non-automated administration</td>
</tr>
<tr>
<td>1940</td>
<td>Correction of a incorrect datetime value.</td>
</tr>
<tr>
<td>1939</td>
<td>Semantic issue in consumable parts.</td>
</tr>
<tr>
<td>1938</td>
<td>Inconsistent representation of CODE values within example MMMM.1 in part 17</td>
</tr>
<tr>
<td>1937</td>
<td>Extend semantic of TID 11003 to be more flexible to the needs and correct node numbering in example</td>
</tr>
<tr>
<td>1936</td>
<td>Correction of &quot;Adverse Event&quot; child node relation to parent node within TID 11021 and 11022</td>
</tr>
<tr>
<td>1935</td>
<td>Correction of child node relation to parent node within part 16, TID 11005</td>
</tr>
<tr>
<td>1933</td>
<td>Add PIRADS V2.1 base PZpm sector anatomy</td>
</tr>
<tr>
<td>1932</td>
<td>Add Series Date and Time to missing Modules</td>
</tr>
<tr>
<td>1931</td>
<td>SCOORD3D should be allowed for Planar ROIs in TID 1411 and be more flexible for Volumetric ROIs in TID 1410</td>
</tr>
<tr>
<td>1930</td>
<td>Erectile dysfunction test drug administration</td>
</tr>
<tr>
<td>1929</td>
<td>Add precoordinated measurement CODE content item parameter to TID 300</td>
</tr>
<tr>
<td>1928</td>
<td>Add multi-energy CT attributes to de-identification profile</td>
</tr>
<tr>
<td>1925</td>
<td>PS3.18 Section 8.3.1 has syntax mistakes</td>
</tr>
<tr>
<td>1924</td>
<td>PS3.18 Section 5.1.1 does not have a definition for NON-ZERO-DIGIT</td>
</tr>
<tr>
<td>1922</td>
<td>Update PS3.18 WADO-RS and STOW-RS to PS3.18 Studies Service Retrieve and Store</td>
</tr>
<tr>
<td>1920</td>
<td>Padding in DICOM JSON and XML (Native) Models</td>
</tr>
<tr>
<td>------</td>
<td>---------------------------------------------</td>
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<tr>
<td>1919</td>
<td>Clarify the Media Type sections for Studies Service</td>
</tr>
<tr>
<td>1889</td>
<td>Recently added OV, SV and UV VRs were not included in PS3.18 or PS3.19</td>
</tr>
<tr>
<td>1862</td>
<td>Necessity of returning the Specific Character Set (0008,0005) attribute in a QIDO-RS response</td>
</tr>
<tr>
<td>1861</td>
<td>Consistency between DICOM VR definition of DS &amp; IS, and JSON Value Representation</td>
</tr>
<tr>
<td>1479</td>
<td>Update PS3.4 for expanded Code Sequence</td>
</tr>
</tbody>
</table>

5. **Assigned CPs**

- **CP1733** Add Primary Anatomic Structure Context Group for Pathology.
  - A candidate for the 2020 January Voting Package.

- **CP1944**
  - WG-06 is proposing to cancel this CP.
  - Circulate to WG-06 and make a decision in January 2020.

- **CP1955** De-identification and datetime stamps in UIDs
  - A candidate for the 2020 January Voting Package.

- **CP1956** Update DICOM to reflect changes in IHTSDO SNOMED CT-DICOM Subset for JUL 2019 INT Release
  - A candidate for the 2020 January Voting Package.

- **CP1957** More replacements of DICOM codes for headings with LOINC
  - A candidate for the 2020 January Voting Package.

- **CP1958** Add Coronary Artery CT Fat Attenuation Index (FAI)
  - A candidate for the 2020 January Voting Package.

- **CP1959** Add codes for more biliary tree structures
  - A candidate for the 2020 January Voting Package.

- **CP1960** Correct some incorrect assignments of unilateral versus lateral vessels
  - A candidate for the 2020 January Voting Package.

- **CP1961** Allow more general ultrasound report document titles
  - A candidate for the 2020 January Voting Package.

- **CP1963** Add codes for selected laterality precoordinated anatomical structures
  - A candidate for the 2020 January Voting Package.

- **CP1965** Update NTP profile in PS3.15
  - A candidate for the 2020 January Voting Package.

- **CP1973** There are different names used for the same UID in different parts of the standard. Same UIDs should be referred to by the same name.
  - A candidate for the 2020 January Voting Package.

- **CP1975** Active image region overlay
  - Assigned

- **CP1976** Add reference to ImageType as alternative to FrameType for Sequences added to CT Image
  - A candidate for the 2020 January Voting Package

- **CP1977** Correct Multi-energy Sequence Nesting
  - A candidate for the 2020 January Voting Package

- **CP1978** Media Type issues
  - Assigned. It requires further discussion. Jim.

- **CP1979** Value Set Constraint of row 4 within TID11005 has to be changed from CID 230 “Yes-No” to CID 231 “Yes-No Only”.
  - A candidate for the 2020 January Voting Package
• CP1980 Change Requested Type attribute of row 15 within TID 11004 from Mandatory (M) to Optional (U)
  o A candidate for the 2020 January Voting Package

6. New CPs

<table>
<thead>
<tr>
<th>CP#</th>
<th>Title</th>
<th>Submitted by &amp; Assigned to</th>
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<tr>
<td>1994</td>
<td>Primary Anatomic Structure Sequence has no CID defined</td>
<td>Submitter Wim Corbijn, Assignee ???</td>
<td>Meeting: 2019-11-08 cp_wc27_Primary Anatomic Structure Sequence.docx Note: The number was given via email.</td>
<td>New</td>
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</table>

Report on Supplements

SECRETARY NOTE: All documents are uploaded on the ftp server in the directory of WG-06. Please refer to documents for more technical details.
ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg06/2019/2019-11-06/Sups

7. CP-1927_Patient_Sex_and_Gender
• Reviewed and discussed. (WG-06 GSE)
  • https://meteor.aihw.gov.au/content/index.phtml/itemId/635994
    o ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg06/2019/2019-11-04/CPs/Assigned
    o cp1927_10_Patient_sex_and_gender.doc

Decision:
• CP instead of Supplement.

Next steps:
1. Waiting for the Vocab so we would align with them
2. Some text will be updated based on HL7 recommendations.
3. WG-06 GSE next call: Tuesday, November 19, 2019, 9:00-10:00 US ET.

8. Supplement XXX Prostate Imaging SR
• Reviewed and discussed (WG-08)
• It received a number “220”.
• The scope was explicitly narrowed down to MRI only.
• The plan is to refine the supplement to be ready for the next review and release for public comment in January 2020.
• Documents can be found: ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg06/2019/2019-11-04/Sups/Sup220/

9. Supplement 208 DICOM Encapsulation of OBJ Models for 3D Manufacturing and Virtual Reality
• Reviewed and discussed (WG-17 3D)
• It was pre-approved for Letter Ballot on Friday, November 8, 2019.
o No quorum to approve Sup 208 during the meeting. Luiza to send a ballot via-email.

- Sup 209 will return for a review (Pre-Final Text) in January 2020.

10. **Supplement 219 Simplified SR in JSON for AI results**
   - Reviewed and discussed. (WG-23)
   - Documents can be found: [ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg06/2019/2019-11-04/Sups/Sup220/](ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg06/2019/2019-11-04/Sups/Sup220/)

**Decision:**
- It was approved for Public Comment on 11/7.
- WG-23 is going to address and resolve any received public comments on Sup 219 between now and January WG-06 meeting.
- Sup 219 will return for a review (Pre-Letter Ballot) in January 2020.

11. **Supplement 211 DICOMweb Support for the application/zip Media Type [WI 2018-09-C]**
   - Reviewed and discussed. (WG-27)

**Decision:**
- Sup 211 will return for a review (Pre-Public Comment) in January 2020.

12. **Supplement 212 XA Protocol Storage [WI 2018-09-A]**
   - Reviewed and discussed. (WG-02)

**Decision:**
- Sup 212 will return for a review (Pre-Public Comment) in January 2020.

13. **Supplement 209 DICOM Conformance Statement [WI 2017-04-F]**
   - Reviewed and discussed.
   - Reserve a 2-hour slot for 2020 January.
   - Discuss any issues between now and then.

14. **Supplement 176 Tomotherapeutic, Multiple Fixed Source and Robotic-Arm Treatment Modalities (2nd Gen.) [WI 2007-06-B]**
   - Reviewed and discussed. (WG-07)
   - Letter Ballot comments were addressed.
   - Still to resolve: Controversial table RT position, CODES DEFINITIONS. WG-06 is comfortable with the rest of the content.

**Decision:**
- It will return for a review (Pre-Final Text) in November 2019.

15. **Supplement 199 RT Radiation Records (2nd Gen) [WIP 2007-06-B]**
   - Reviewed and discussed. (WG-07)

**Decision:**
- It will return for a review (Pre-Public Comment) in January 2020.

16. **HL7 Coordination**
   - Jonathan gave an update on activities of WG-20 II.
   - Presentation can be found: [ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg06/2019/2019-11-04/HL7-Coordination](ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg06/2019/2019-11-04/HL7-Coordination)
   - Week of May TC215, if WG-10 wants, 30 minutes. Follow up with Jonathan

**New Business**

**Future Meetings**
CP t-cons 2019:

Action Item: Send a doodle poll to schedule a 2-hour CP t-con-Luiza
Dial in info: http://workspaces.nema.org/dicom/Lists/Calendar/calendar.aspx

In-Person 2020:

- January 13-17, 2020, MITA HQ, Arlington, VA, USA
- March 30-April 3, 2020 Takamatsu, Japan
  - **DATES:** Monday-Friday, March 30-April 3, 2019
  - **TIMES:** Monday-Thursday 09:00-17:00
  - Friday 09:00-13:00
  - **LOCATION:** Takamatsu Chamber of Commerce and Industry in Japan
    2-2-2 Ban-cho, Takamatsu-shi,
    Kagawa 760-0017, Japan
    [http://www.takacci.or.jp](http://www.takacci.or.jp)

The Outlook invitation and PPT with details on the meeting have been uploaded in the March meeting folder.

- June 15-19, 2020, MITA HQ, Arlington, VA, USA
- August 31-September 4, 2020, MITA HQ, Arlington, VA, USA
- November 9-13, 2020, MITA HQ, Arlington, VA, USA

Next Meeting Agenda

An agenda plan was prepared for the next meeting. It was posted as < Agenda-plan-DICOM-WG06-Jan-2020.xlsx in the January 2020 meeting folder.

Preliminary Agenda for January:

Sup 176Sup 199, Sup 208, Sup 209, Sup 210, Sup 211, Sup 212, Sup 214, Sup 218, Sup 219, and Sup 220 Sup XXX Dermoscopy IOD

Adjournment

The meeting recessed at 17:30 daily and resumed at 8.30 a.m. the next day. The meeting was adjourned at 12:30 local time on Friday, November 8, 2019.

Submitted by Luiza Kowalczyk, DICOM Secretary
Reviewed by Clark Silcox, Legal Counsel, November 18, 2019.