MINUTES

JOINT DICOM T-CON
WORKING GROUP TWO (WG-02) (Projection Radiography and Angiography)
WORKING GROUP TWENTY EIGHT (WG-28) (Physics)

Version 2

Logistics: T-Con May 12, 2020; 09:00 to 13:00 EDT (1400-1800 UTC±0)
T-Con May 13, 2020; 09:00 to 13:00 EDT (1400-1800 UTC±0)

(call information at the end of this agenda)

Presiding Officers: Francisco Sureda, Chair WG-02
Annalisa Trianni, Co-Chair WG-28
Donald Peck, Co-Chair WG-28

Secretary: Alberto Torresin (EFOMP)
Shayna Knazik (MITA)

Voting Members Present:
AAPM Nick Bevins
EFOMP Alberto Torresin
GE Healthcare Francisco Sureda
MITA Shayna Knazik
PACS Health Steve Massey
Philips Pritham Shetty
Siemens Healthcare GmbH Heinz Blendinger
1. **Preliminary Events**

- The Secretary identified participants and reviewed the antitrust rules and DICOM Patent Disclosure Policy.
- Members reviewed the agenda and revised as needed.
- Members reviewed and approved the minutes from the last meeting on March 25-27, 2020 (T-Con)

2. **CPs**

- Members reviewed the advances of the CPs discussed in previous meetings, and was discussed the new CPs related to the scope of WG-02 and WG-28.

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Submitted</th>
<th>Assigned</th>
<th>Coded Status</th>
<th>Comments/Actions for WG-02 and WG-28</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP 1319</td>
<td>Frame Of Reference Reliability</td>
<td>Francisco Sureda, et al.</td>
<td>Ulrich Busch</td>
<td>Assigned</td>
<td>WG-02 agrees with the version 13 and contacted Ulrich Busch asking to include examples of SPECT-CT or PET-MRI. Will review/discuss the response received from Ulrich and David Flade. <strong>Action:</strong> make examples for angiography.</td>
</tr>
<tr>
<td>CP 1915</td>
<td>Adapt definition of FocalSpot (0018,1190) to comply with IEC60336 section 8.3</td>
<td>Till Hoenig</td>
<td>Björn Nolte</td>
<td>Assigned</td>
<td>Members will continue to monitor this CP.</td>
</tr>
<tr>
<td>CP 1927</td>
<td>Patient Sex and Gender clarifications</td>
<td>Horn</td>
<td>Horn</td>
<td>Assigned</td>
<td>Members will continue to monitor this CP.</td>
</tr>
<tr>
<td>CP 1964</td>
<td>Improve the definition of pixel spacing</td>
<td>Wim Corbijn</td>
<td>Wim Corbijn</td>
<td>Assigned</td>
<td>The group reviewed this CP and determined the changes were only editorial, but the group will continue to monitor.</td>
</tr>
<tr>
<td>CP 1966</td>
<td>Explicitly define the order of pitch and roll rotations</td>
<td>Jyrkkälä</td>
<td>Schadt</td>
<td>Assigned</td>
<td>Members reviewed this CP. They have no comments at this time but will continue to monitor.</td>
</tr>
<tr>
<td>CP 1974</td>
<td>Overlay usage with Multi-frame Image unclear</td>
<td>Wim Corbijn</td>
<td>Wim Corbijn</td>
<td>Assigned</td>
<td>Members reviewed this CP and agreed to investigate the repercussions for XA.</td>
</tr>
<tr>
<td>CP 1975</td>
<td>Active image region overlay</td>
<td>Dekker</td>
<td>Solomon</td>
<td>Assigned</td>
<td>Members reviewed this CP and will continue to monitor.</td>
</tr>
<tr>
<td>CP 1977</td>
<td>Correct Multi-energy Sequence Nesting</td>
<td>Hoenig</td>
<td>Nolte</td>
<td>Assigned</td>
<td>Members reviewed this CP and will continue to monitor its progress.</td>
</tr>
<tr>
<td>CP 2018</td>
<td>Description of CTDIvol is not complete</td>
<td>Wim</td>
<td>Wim</td>
<td>CPACK 107</td>
<td>Members reviewed this CP and decided that they do not need to monitor it any further.</td>
</tr>
<tr>
<td>CP 2041</td>
<td>Add Table Value Type for DICOM SR</td>
<td>Clunie</td>
<td>Clunie</td>
<td>CPACK 108</td>
<td><strong>Action:</strong> Nick to email David about CP-2041 to discuss the proposed corrections and clarifications based on the discussion today.</td>
</tr>
</tbody>
</table>
3. **Supplement 212: XA Protocol Storage**
   - This supplement is in Public Comments until June 5, 2020. Members will consider a T-Con to review the received comments before the WG-06 September meeting.

4. **Supplement 214: Cone Beam Radiation Dose Structured Reporting**
   - Members reviewed version 35 of the current supplement and its corresponding Powerpoint, focusing on open issues and updates since the April WG-06 meeting, and the assigned homework.
   - Members discussed the overall structure of the Supplement including a major change which is the inclusion of T1D Tempaltes on Tenuaters. Also discussed were attenuation Characteristics and Category, type of sources, XA biplane implication and multiple source.
   - WG-06 proposed a change regarding the RDSR frame of reference. Different rows of the Sup were updated following the WG-06 comments, in particular related to the large discussion on the RDSR frame of reference describing the coordinate system geometry.
   - Specific description of the Content Item Description of Table TID eRDSRT10A were discussed and reported row by row (row 9 to row 9).
   - All the comments will be in the last review of the Supplement and saved to the 28 FTP folder.
   - The final content of the discussion will be sent to WG-06 and the Supplement was returned to WG-06 to prepare for Public Comments.

5. **Other**
   - Presentation of new proposal for RestFul3D (3D over DICOM Web) by WG-27 (by Steve Nicols) was discussed and uploaded in the DICOM site of WG02 and WG28. This is at the very early stage, work item proposal, so Steve wanted to bring it to these groups as a heads up. WG-06 asked WG-27 to review it with several of the DICOM WG’s (NucMed, CT, MR, etc). Overall there’s been acceptance of this from the other groups. DICOMWeb specifies behavior for rendering a (Softcopy) Presentation State Instance resource, but it is does not specify anything for Volumetric Presentation States which provide a very complete method to save rendering parameters and segmentation, performed during post-processing (i.e. offline). Restful3D proposed a method to render volumes based on predetermined parameters via DICOMweb, parameters may be within a volumetric presentation state or the RESTful request. He reviewed several Use Cases, the feedback he received from the other WG’s. The WG’s provided some additional comments, and agreed to send Steve some additional comments.
   - Members discussed comments/feedback on the Sup209 (DICOM Conformance Statement new template).
   - Ulrich Busch (from Varian) presented a DICOM Correction Proposal about the Frame of Reference Reliability; the discussion will produce a final revision of the CP that will be shared with WG-02/28.

6. **Planned Meeting Dates in 2020**
   - T-Con in May with WG-06 to review Sup214 (Cone Beam Radiation Dose SR)
Action: Shayna to set up a 2-hour call with WG-06. No Thurs May 28th. So that it’s almost ready for Public Comment. Will not present Sup 212 for XA Protocol Storage, delete those slots on WG-06 schedule.

- T-Con in **June/July** to review Public Comments of Sup212 (XA Protocol Storage)
  - Action: Shayna to schedule the next call for June 30, 9 am-11am EDT
- T-Con or face-to-face meeting in **October**. Possible locations: Paris, France; Taormina, Italy…
  - Action: Shayna to add October 5-7, 2020 meeting/tcon on our calendars to the DICOM calendar.

7. **New Business**

   There was no new business to discuss.

8. **Adjourn**

   - WG-02/WG-28 Joint Virtual Meeting was adjourned on May 13th at 1:00pm US ET.