MINUTES
WORKING GROUP TWENTY-ONE (Computed Tomography)
Version 1

Date & Time: Wednesday, March 15, 2023
12:00-1:30pm US EDT

Presiding Officers: Till Hoenig, Co-Chair, Vendor
Shuai Leng, Co-Chair, User
wg21chairs@dicomstandard.org

Secretary: Shayna Knazik, DICOM/MITA

Voting Members Present: 
- AAPM/Mayo Clinic: Shuai Leng
- Canon: Kevin O’Donnell
- DICOM/MITA: Shayna Knazik
- GE Healthcare: Steve Nichols
- Johns Hopkins University: M. Mahesh
- Philips: Shlomo Gotman
- Siemens Healthineers: Till Hoenig

Voting Members Not Present: 
* ACR: Paul Armstrong Hill
* AAPM: Kai Yang
* PixelMed Publishing: David Clunie
* United Imaging Healthcare: Adam Chandler

*Not present at two consecutive meetings and therefore not counted for quorum during this tcon

Observers Present: 
- AAPM: Nick Bevins
- Neurologica: Ibrahim Bechwati

Opening
1.1. The meeting was called to order and a quorum was present.
1.3. Agenda was reviewed and approved.
1.4. Minutes from February 8, 2023 were reviewed and approved.

2. **WG-21 Correction Proposals (CPs) Status**

<table>
<thead>
<tr>
<th>CP#</th>
<th>Submitter</th>
<th>Assignee</th>
<th>Affects DICOM Parts</th>
<th>Status</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1749</td>
<td>Kevin O’Donnell</td>
<td>Kevin O’Donnell</td>
<td>Assigned</td>
<td>Clarify usage of Content Time</td>
<td>No updates at this time.</td>
<td></td>
</tr>
<tr>
<td>1915</td>
<td>Till Hoenig</td>
<td>Björn Nolte</td>
<td>Part 3</td>
<td>Suspected</td>
<td>Adapt definition of FocalSpot (0018,1190) to comply with IEC60336 section 8.3.</td>
<td>This item remains suspended until someone at Siemens Healthineers can take over.</td>
</tr>
<tr>
<td>1964</td>
<td>Jeroen Medema</td>
<td>Wim Corbijn</td>
<td>Part 3</td>
<td>Assigned</td>
<td>Improve the definition of Pixel Spacing</td>
<td>Shayna reported that there has been no new progress, but that WG-16 MR is working to restart their monthly calls so there should be an update in the next month or two.</td>
</tr>
<tr>
<td>2209</td>
<td>Till Hoenig</td>
<td>Björn Nolte</td>
<td>Part 3</td>
<td>CPack-118 but not yet approved for FT</td>
<td>Correct Table C.11.1.2.1-1 Recommended Rescale Type Assignments for Multi-energy CT Image</td>
<td>Kevin reported that this will be discussed at the WG-06 meeting next week, and he will report back at the next call.</td>
</tr>
<tr>
<td>&lt;New&gt;</td>
<td>Till Hoenig</td>
<td>TBD</td>
<td>Parts 3/16</td>
<td>New</td>
<td>Publicly document and specify vendor specific CT Image Quality Reference Parameter as a SQ</td>
<td>Till is waiting to incorporate final feedback from remaining vendors once Shuai is able to compile.</td>
</tr>
<tr>
<td>&lt;New&gt;</td>
<td>Till Hoenig</td>
<td>TBD</td>
<td>Part 3</td>
<td>New</td>
<td>KVP for MultiEnergy</td>
<td>The group discussed Till’s draft and provided feedback which he will incorporate prior to the next call.</td>
</tr>
<tr>
<td>&lt;New&gt;</td>
<td>Steve Nichols</td>
<td>TBD</td>
<td>New</td>
<td>Correction to TID 10013</td>
<td></td>
<td>This will be discussed on the next call because Steve Nichols had to leave early.</td>
</tr>
</tbody>
</table>

3. **2023 in-person meeting**
3.1. Potential locations: ARRS, ASNR, SCCT, RSNA, ISCT, SIIM, AAPM, SPIE
3.2. The group discussed whether a half day, full day, or multiday meeting would be needed for our first in-person meeting. Kevin O’Donnell asked whether a joint meeting with WG-
02/28 would be possible. They meet in Boston in May so that would be too close, but their next meeting October 18-20, 2023 in Mallorca, Spain. There is also October 13-14 European Society of Medical Imaging Informatics in Pisa, Italy. WG-06 will also be meeting in Europe in November, location to be determined in the next month, so WG-21 might be able to hold a meeting directly before or after that.

3.3. The group will brainstorm on these ideas between now and the next meeting, but it’s looking like a meeting towards the end of the year would be best.

4. **Dose Management: Patient Protocol (Black Image) vs. RDSR**
   4.1. Kevin reported that WG-02 provided a list for Xray patient protocols/essential parameters out of RDSR, which the group reviewed and discussed. Now that the group provided feedback, Kevin will continue drafting some option text.

5. **WG-06 requested WG-21 to review technical content of HL7 imaging procedure radiation exposure project**
   https://confluence.hl7.org/display/IMIN/Radiation+Dose+Summary+for+Diagnostic+Procedures+on+FHIR
   5.1. Kevin O’Donnell noted that HL7 continues to work on this item. **Action:** Kevin will touch base with Jonathan Whitby about their expected timeline for updated material to be reflected on their resources webpage.
   5.2. Nick Bevins shared that AAPM recently formed a Working Group Radiation Dose Index Monitoring Software Data, which will seek to create guidelines on how to properly use radiation dose metrics. Nick and Mahesh are both on the group, and they mentioned that the Working Group’s Chair, Mark Supanich, may be reached out to Kevin O’Donnell for his participation.

6. **Old/New Business**
   6.1. Multi-energy Material Unit: CP initiated by Kari Jyrkkälä (Varian) – this remains dormant until WG-07 reports that it is ready to be discussed again.
   6.2. 4D imaging representation in classic IODs from WG-07 Radiotherapy – this remains dormant until WG-07 reports that it is ready to be discussed again.

7. **Upcoming meetings:**
   7.1. WG-21 usually meets the 3rd Wednesday of each month at 12:00pm US Eastern. The next call would take place on April 19, 2023, however there were several conflicts with other conferences. **Action:** Shayna will move the call to April 12, 2023 from 11:30am-1:00pm US EDT.

8. **Adjournment**
   8.1. The call was adjourned at 1:26pm US EDT.

Prepared and submitted by Shayna Knazik
Reviewed by Counsel 3/27/23