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MINUTES

WORKING GROUP TWENTY-ONE (Computed Tomography)

Version 1

Date & Time: Wednesday, December 21, 2022
12:00-1:00pm US Eastern Time

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

Secretary: Shayna Knazik, DICOM/MITA

Voting Members Present:	**Represented by:**
AAPM/Mayo Clinic	Shuai Leng
AAPM	Kai Yang
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:	**Represented by:**
*ACR	Paul Armstrong Hill
*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:	**Represented by:**
AAPM	Nick Bevins
Philips	Wim Corbijn

Opening

1.1. The meeting was called to order and a quorum was present.
1.2. Reviewed DICOM antitrust and patent guidelines.
1.3. Agenda was reviewed and approved.

1.4. The minutes from 23 November 2022 were reviewed and approved.

2. WG-21 Correction Proposals (CPs) Status

CP#	Submission Date	Submitter	Affects DICOM Parts	Assignee	Status	Description
1749		Kevin O'Donnell		Kevin O'Donnell	Assigned	Clarify usage of Content Time
1915	2019-02-16	Till Hoenig	Part 3	Björn Nolte	Suspended	Adapt definition of FocalSpot (0018,1190) to comply with IEC60336 section 8.3
1964	2019-06-24	Jeroen Medema	Part 3	Wim Corbijn	Assigned	Improve the definition of Pixel Spacing
<New>		Till Hoenig	Parts 3/16		New	Publicly document and specify vendor specific CT Image Quality Reference Parameter as a SQ
2209	2022-01-20	Hoenig	Part 3	Nolte	CPack-118 but not yet approved for FT	Correct Table C.11.1.1.2.1-1 Recommended Rescale Type Assignments for Multi-energy CT Image

3. CP-1964: Wim Corbijn - synchronizing the definition of Pixel Spacing and discussion of CT related attributes.

3.1. Wim joined the call to ask the group about CT-related attributes within his CP which aims to synchronize the definition of Pixel Spacing. The group discussed the following changed definitions to see if they are satisfactory or need to be rejected:

- C.8.15.3.7 CT Reconstruction Macro
- C.8.21.2.3 Breast Tomosynthesis Contributing Sources Module (not sure if this is indeed CT responsibility)
- C.34.11.1 Performed CT Reconstruction Macro

4. CP-2209, Correct Table C.11.1.1.2.1-1 Recommended Rescale Type Assignments for Multi-energy CT Image, was sent back to WG-21 by WG-06

4.1. Group discussed Till's edits to the CP based on WG-06 feedback.

5. Content Time and Acquisition Time clarification – Kevin O'Donnell/Shlomo Gotman

5.1. This item is currently on hold.

6. Additional public attribute for CT images, addressing the context "(User selectable) parameter that determines the tube current time product relevant for the image quality"

6.1. The group discussed this item and determined that Samsung, Hitachi, and Fuji needed to be included.

6.2. Action: Steve will propose a new CP on the next call: cp-sjn-correct-condition-in-Row34e-of-TID10013

7. **Dose Management: Patient Protocol (Black Image) vs. RDSR --**
   7.1. Did not discuss

8. **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
   8.1. Did not discuss

9. **Old/New Business**
   9.1. Multi-energy Material Unit: CP initiated by Kari Jyrkkälä (Varian), see Meeting folder
   9.2. 4D imaging representation in classic IODs from WG-07 Radiotherapy – this remains dormant until WG-07 lets us know when it is ready to be discussed again.

10. **Upcoming meetings:**
    →WG-21 usually meets the 3rd Wednesday of each month at 12:00pm US Eastern. The next call would take place on January 18, 2023, but that is the week of the next WG-06 meeting. The group will determine an alternate date, and whether a 60- or 90-minute call is needed.

11. **Adjournment:** the call was adjourned at 1:01pm US EST.

Prepared and submitted by Shayna Knazik
Reviewed by Counsel 2/9/2023