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Minutes-tcon

WG-07 Motion Management of
DICOM Working Group Seven
(Radiotherapy)
October 24, 2019

Voting Members Present	**Represented by**
Accuray	Bob Pekarek
Brainlab	Christof Schadt
Elekta	Stuart Swerdloff
Mevion Medical Systems	Bruce Rakes
Varian	Thomas Schwere
Voting Members Not Present	**Represented by**
AAPM	Bruce Curran
IBA	Frederic Dessy
Shanghai Proton and Heavy Ion Center	Michael Moyers
Alternate Voting Members & Observers	**Represented by**
Accuray	James Beck
Elekta	Jim Percy
MITA/DICOM	Luiza Kowalczyk
RaySearchLabs	Stefan Pall Boman
University of Michigan	Scott Hadley
N/A	Rok

Presiding Officers:	Stuart Swerdloff, Elekta, Industry Co-Chair
	Bob Pekarek, Accuray, Industry Co-Chair
DICOM Secretariat:	Luiza Kowalczyk, MITA, Secretary

1. Opening

1. The meeting started at 09:30 a.m. USA ET.
2. The agenda was reviewed and approved with 2 additional items:
   2.1. WG-06 Agenda-Schedule details
   2.2. Discuss a face to face meeting.
3. The antitrust rules have been reminded.
4. The minutes of the previous meeting were reviewed and approved.

2. Sup XXX Motion Management Objects

- Continue discussing the document.
- The scope and field of the document was discussed.
  - Discussed the response from WG-07 as regards the use of the instruction versus content. Motion management is considered an additional instruction. Content is strictly aligned in the Motion Results.
- It will be presented to WG-07 before it goes for the First Read to WG-06.
- The goal is to have it ready for the First Read review with WG-06 in January 2020.

3. WG-06 Base Standard

- First Read – It is a 2-hour time slot on the WG-06 Agenda.
- Scope and Field of Application needs to be completed for the First Read.
- To facilitate readers' understanding of the new proposed addition to the DICOM Standard, the authors need to prepare a power point presentation, which describes the technical issues and use cases.
  - https://www.dicomstandard.org/resources/templates/
- Decision: WG-07 MM needs to be scheduled at the WG-06 Agenda, either January or March in 2020.

4. Links

- ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg07/Sup/OtherSup/SupNN6_MotionManagement
- ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg07/Sup/
- ftp://medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/Wg07/WG07-MM/2019/2019-10-24/

5. Next Meetings

- Tuesday, November 12, 2019, 13:00-14:00 US ET Dial in information can be found in the DICOM calendar: http://workspaces.nema.org/dicom/Lists/Calendar/calendar.aspx

In person

- It is proposed to have a 3-day meeting in conjunction with WG-06 Base Standard in Takamatsu, Japan.

- The Outlook invitation and PPT with details on the meeting of WG-06 is uploaded in the March WG-06 meeting folder.
- **Action Item**: Ask for a meeting room-Luiza

WG-06 Base Standard Meeting in Takamatsu, Japan:

DATES: Monday-Friday, March 30-April 3, 2019

TIMES: Monday-Thursday 09:00-17:00, and 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

6. Adjournment

The meeting adjourned at 10:30 US ET

Submitted by Luiza Kowalczyk, DICOM Secretariat

Reviewed by counsel: CRS, November 12, 2019.

Attachment

Use Cases for Motion Management

1. None

Actors: none
Type of signal: none
DICOM support required: no

2. Compression

Actors: compression plate or body mask
Type of signal: none
DICOM support required: no

3. Breath Hold

Actors: spirometer, timer
Type of signal: gating
DICOM support required: yes

Description: In automatic breath holding, the spirometer measures the volume of air inhaled and when the desired volume is reached, sends a signal to begin the breath hold. The time to hold the breath after the desired volume is reached is set by the operator. The enable gating signal during treatment delivery is from the breath hold timing system, not from the spirometer.

4. Gating

Actors: pressure sensor
Type of signal: amplitude surrogate
DICOM support required: yes

5. Rescanning

Actors: none
Type of signal: none
DICOM support required: no

6. Phase Rescanning

Actors: pressure sensor
Type of signal: amplitude surrogate
DICOM support required: yes

7. Implanted Fiducial and Fluoroscopy

Actors: flat panel imager, x ray tube,
Type of signal: gating
DICOM support required: yes

Note: Position is calculated based upon image of fiducial, gating signal