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DICOM®
Digital Imaging and Communications in Medicine

Minutes t-con

Ion Therapy Subgroup of
DICOM WORKING GROUP SEVEN (Radiotherapy)

Date and time: Thursday, May 7, 2020
9:00 AM US CDT, 10:00 US EDT, 16:00 CET, 17:00 EET (Helsinki), 22:00 Shanghai, 23:00 Tokyo, Fri. 2:00 AM New Zealand

 # Presiding Officers: Michael Moyers, User Co-Chair
Secretary: Shayna Knazik, Incoming Secretary
Stephen Vastagh, Outgoing Secretary

Voting Members Present	**Represented by:**	
DICOM Secretariat/MITA/NEMA	Shayna Knazik	Voting
Elekta.Inc.	Jim Percy	Alt. Voting
IBA	David Wikler	Voting
Mevion Medical Systems	Bruce Rakes	Voting
Shanghai Proton and Heavy Ion Center	Michael Moyers	Voting
Varian Medical Systems, Inc.	Kari Jyrkkälä	Alt. Voting

Voting Members Not Present	**Represented by:**	
*AAPM	Bruce Curran,	Voting
Brainlab, AG	Christof Schadt	Voting
*Individual	Ulrich Busch	Voting
*Louisiana State University	Wayne Newhauser	Alt. Voting
*Massachusetts General Hospital	Hanne Kooy	Voting
*Medical Image Standards Association of Taiwan	Jack Hsiao	Voting
*Siemens Healthineers	Frank Heister	Voting

= Industry Co-Chair position is vacant
*= Not counted for quorum

Alternate Voting, Observers, and Guests Present	**Represented by:**	
Cosylab	Roc Stafanik	Observer
DICOM Secretariat/MITA/NEMA	Stephen Vastagh	Observer
ICT	Harold Beunk	Observer

Mevion	Armin Langenegger	Observer
Raysearch	Staffan Engdahl	Observer
Raysearch	Stefan Boman	Observer

1. **Welcome and roll call**
   M. Moyers opened the meeting at 10 AM US EDT. The attendees introduced themselves.

2. **Meeting rules**
   The antitrust and patent declaration rules were reviewed.
   There was a quorum present.

3. **Review, revise, approve Agenda**
   The Agenda was approved.

4. **Review, approve minutes**
   The March 26, 2020 minutes were approved

5. **Administrative**

   - Incoming DICOM/MITA/NEMA staff, Shayna Knazik. introduced herself: immediately prior to DICOM she was AAPM staff liaison to the Science Council. She also worked with Co-Chair Moyers on AAPM projects. She will be the Secretary for WG-07 and its Subgroups. The members welcomed Shayna.

   - Election of Industry Co-Chair: Shayna will issue a call for nomination, followed by a confidential letter ballot to elect an Industry Co-Chair to the position vacated by Frederick Dessy of IBA

6. **Report/update on WG-07 virtual meeting just concluded.**

   Jim Percy reported:

   Supplement 199 (RT Radiation Records) was approved by WG-06 to issue in a **Letter Ballot** for approval by the DICOM Standards Committee (DSC). The balloting is in process. Upon approval by the DSC, WG-06, at its next meeting following the ballot closing, will make minor changes if needed to produce the **Final Text** of the Supplement, which will be published on the DICOM website, shortly after said WG-06 meeting. At that point the Supplement becomes part of the DICOM Standard. It will be integrated in the next of the five annual editions of the complete DICOM Standard (probably 2020c.)

   Draft Supplement 160 (2nd Gen Patient Setup) was discussed and revised by WG-07; one of the three new IODs, RT Patient Position Reference Acquisition, was moved to Supplement 213 (Enhanced RT Image) order to expedite the submission to maintain the flow of new supplements from WG-07 into the WG-06 approval process.

   This desire to expedite also makes the Supplement 215 (RT Ion Radiation Objects) development a priority.

   - A presentation was made to WG-07 on the draft Supplement 209 (Revision of Part 2 of the DICOM Standard, Specification for the DICOM Conformance Statement (DCS). There was no input from WG-07,

prior to this presentation; hence, UPS is not yet covered as much as needed by WG-07. Stephen noted that the WG-31 Task Group will reach out to WG-07 in the future to discuss.

David Wikler reported on CP 1971:

- Similarly to Sup 199, it is in the process of **Letter Ballot** approval by the DSC. Approval is expected; thereafter, at its June meeting , WG-06 will make minor changes if needed to prepare the **Final Text** of CP-1971, which will be published on the DICOM website, shortly after the WG-06 meeting. At that point the CP becomes part of the DICOM Standard. It will be integrated in the next of the five annual editions of the complete DICOM Standard (probably 2020c.)

- David Wikler explained that the above status of Sup 199 and CP 1971 can be checked on the DICOM website in the DICOM News Current Edition (For CP 1971 see CPack 106 in the DICOM News.)

7. IHE-RO_TPPC_v13 profile—

Bruce Rakes reported that he uploaded to the DICOM FTP site (WG07/WG07-Ion/IHE-RO Profile/) the Treatment Delivery Record Content - ION first draft. Based on the TDRC which has already been voted for trial implementation.

There was no time available for Bruce to present the document. He asked members to review and send any comment they may have to him.

8. Supplement 215-RT Ion Radiation Objects (2nd Gen) [WI 2017-06-B]

Jim Percy presented Version 11 of Sup 215. Extensive discussion followed, all members participated and contributed. Jim made changes to the draft capturing ideas, comments and things to work on (marked as TODO.)

This marked up version was posted as Version 12, immediately after the meeting.

Jim asked all members to review and be prepared with comments and suggestions at the next meeting.

ACTION: - All Members

Specifically Jim asks the following:

"Using version 12 of Supplement 215 from the ftp site, **check out** the new macros called **Ion Range Modulator Settings Macro**, **Ion Range Shifter Settings Macro, and RT Accessory Holder Settings Macro.**

The first two should allow the Modulator and Shifter to change type and location at each control point. The RT accessory Holder settings macro should let the holder change relative position at each control point and thus move the carriage (nozzle) slots all together in one movement. "

Given the priority and the amount of remaining work on Sup 215, the group scheduled two 3-hour t-cons prior to the next WG-07 and WG-06 meetings, which during the week of June 15. These are May 29 and June 12. (See below.) (Ed. Note: DSC Sup 199 Ballot closes also on June 12.)

9. Old Business

Before his retirement, the current "outgoing" secretary, Stephen Vastagh, worked with this Ion Group; he

noted that the first Ion Group documents go back to the year 2000. The first recorded Group meeting was in 2001 and he was their Secretary at that meeting and for many years thereafter. He thanks the Group for their long years of work on the DICOOM Standard and for the courtesies they showed to him.

10. **New Business –** Proposed New CP
David uploaded to today's meeting folder a new CP: CP_RTIonRecordBlockSlabSeq_IonSubgroup (Add Block Slab Sequence in RT Ion Beams Treatment Record.)

ACTION- All Members: Provide feedback to David on the new CP.

11. **Next Meetings**

Next T-cons:

Friday, May 29, 2020, Three-hour T-con
Start time:
7:00 AM US CDT, 8:00 US EDT, 14:00 CET, 15:00 EET (Helsinki), 20:00 Shanghai, 21:00 Tokyo, 24:00 Midnight New Zealand

Friday, June 12, 2020, Three-hour T-con
Start time:
7:00 AM US CDT, 8:00 US EDT, 14:00 CET, 15:00 EET (Helsinki), 20:00 Shanghai, 21:00 Tokyo, 24:00 Midnight New Zealand
Dial-in information: Will be posted in the DICOM Calendar , which is available 24/7. Invitations will be sent shortly.

Next In-person meeting: Not discussed

12. **Adjournment**
The meeting adjourned at 11:35 am ET.

Submitted by Stephen Vastagh, Outgoing Secretary, 2020-05-07
Reviewed by counsel: CRS, 2020-05-08