

**IHE-RO Technical Committee
Conference Call
December 17, 2020
10:30 am – 12:00 pm EST**

**Technical Committee Chairs:
Scott Hadley, PhD, University of Michigan
Chris Pauer, Sun Nuclear
Jon Treffert, RaySearch, Incoming Chair**

Mission Statement: *The American Association of Physicists in Medicine American Society for Radiology Oncology (AAPM) supports a multi-society Task Force to undertake an initiative to promote the Integration of the Healthcare Enterprise (IHE) – Radiation Oncology (RO), fostering seamless connectivity and integration of radiotherapy equipment and the patient health information systems. The Task Force will include members from ASTRO, RSNA, AAPM, the American College of Radiology (ACR) and the Medical Imaging and Technology Alliance (MITA). In addition, members of the International community have also been invited to participate in IHE-RO. The IHE-RO Task Force, in close collaboration with radiotherapy product manufacturers, will develop appropriate integration profiles for radiation therapy and setup a demonstration of seamless communication among the full array of radiotherapy products.*

Attendees

Walter Bosch
Jim Percy
Bruce Curran
Chris Pauer
Jill Moton
Rishabh Kapoor
Tucker Meyers
Thomas Schwere
David Wikler
Bob Pekarek
Richard Voegele
Bruce Rakes
Scott Hadley
Harold Beunk
Stefan Boman
Sanjay Bari

Minutes

- I. Call to Order at 10:34am ET
- II. Review Agenda
- III. Minutes Review – review of minutes for the October 2020 Multi-day Teleconference was tabled.
 - a. **ACTION 201201:** Walter to forward Treatment record examples from TDD and TMS vendors to new Test Tools manufacturer.
 - b. ATNA Profile links from Lawrence Tarbox (10/7/2020)

The overall wiki page describing ATNA (part of the ITI Tech. Framework) is:
https://wiki.ihe.net/index.php/Audit_Trail_and_Node_Authentication
The Radiology Option is described at:
[https://wiki.ihe.net/index.php/Audit_Trail_and_Node_Authentication - Radiology Option](https://wiki.ihe.net/index.php/Audit_Trail_and_Node_Authentication_-_Radiology_Option)
The DICOM security profiles mentions are in DICOM Part 15 Annex B:

http://dicom.nema.org/medical/dicom/current/output/chtml/part15/chapter_B.html

Note that the profiles also include ways to include user authentication information as part of association negotiation, which we did not discuss on today's call.

IV. Other committee updates.

a. PC and WG

- i. Update on XRTS to PC – Use Case was discussed with PC.
- ii. What should be the outcomes from Profile Presentation to PC?
 1. Time of Presentation
 2. Goals
 3. Amount of Detail

b. IHE Domain Committee

- i. DRRO has been submitted for Public Comment
- ii. TDW-II for Trial Implementation – changes have been incorporated
- iii. Product Registry Category
 1. **ACTION 201202**: Jon to add development of product registry categories to future agenda.

V. XRTS – Status and Next Steps

a. MITRE update

- i. MITRE/CODEX meeting discussed iterative development and testing. ASTRO, ASCO are engaged.
- ii. Aim is to capture the most important data elements in a registry database.
- iii. Motivation appears to be (US) government regulation (21st Century Cures Act penalty for non-adherence). Some dates have been proposed, but not finalized.
- iv. The group is using HL7/FHIR lexicon to define data elements – corresponds to ASTRO minimum data elements. Still need to define workflow.

b. What is the next iteration?

c. Are there dates we can settle on?

d. Can we help with priority and scope?

- i. All of the MITRE/CODEX data elements are included in the IHE-RO XRTS Profile.
- ii. Consensus to pursue partnership between IHE-RO HIS subgroup and the MITRE/CODEX group.
- iii. Emphasis for RT vendors should be on development of FHIR connectivity. Definition of content will follow.

VI. Next steps for Connectathon

a. 2021 Connectathon scheduled Mar 1-3 (M-W) and 10-12 (W-F), 2021

b. Connectathon request presented to IHE Testing and Tools 12/16/20

c. **ACTION 201203**: Walter to send Connectathon registration email (week of 12/21/20)

- i. Survey: profiles to test, preferred test times
- ii. VPN accounts
- iii. Participation agreement

d. Meeting schedule for Jan – Apr 2021

- i. Profile Development Meeting: May 3-7, 2021 – ½ day morning (US) virtual meetings

VII. TDIC Status / Revisit

a. David reported on his presentation proposing a method to more clearly define actual projection geometry (removes ambiguity).

b. Thomas has added material defining optional use of Spatial Registration.

c. The Profile has been released for Public Comment.

d. **ACTION 201204**: Jon to add TDIC review to next TC Meeting agenda

VIII. Can we subdivide work on profiles to show progress in a more granular fashion?

- a. **ACTION 201002**: Editors of Profiles in Development to assess progress (%) on content for each volume of their Profile.

- IX. Update on Test Tools status
 - a. ICT Test Tools have been transferred to AAPM BitBucket account
 - b. A backup copy of the UPS and Content Validator code has been stored on the AAPM Test Server.
- X. FDII Update
- XI. TDW-II Concerns?
 - a. Options to retain original treatment records (to be documented in testing).
- XII. ROTH Next Steps
 - a. Open Issues
 - i. Mapping of entities to DICOM objects
 - ii. Identify what is not represented directly in the DICOM objects
 - iii. Identify what is optional
 - iv. What can be done next?
 - b. Parallel work is in progress on an RT Course IOD in DICOM WG-07
 - c. ACTION 201205: Jon to add ROTH manifest design to next TC meeting agenda
 - i. Chris to present BQAW manifest as possible example for a ROTH use case
- XIII. Any issues to bring back to clinicians / Planning Committee?
 - a. Proposal for an annual TC/PC meeting
 - b. ACTION 201206: Jill to add Profile Priority discussion to next PC meeting (1/26/21)
 - c. ACTION 201207: Jon to add review of profile progress percentages to next TC meeting agenda.
- XIV. ROIT Profile
 - a. Walter reported a RESTful API for communicating contouring and prescription templates may provide an alternative to DICOM Segmentation Creation Template IOD (Sup 196).
- XV. Meeting adjourned at 12:03pm ET