

IHE-RO Technical Committee Conference Call

September 19, 2024

10:30 am – 11:50 pm ET

Technical Committee Chairs:

Scott Hadley, PhD, University of Michigan

David Wikler, IBA

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.*

Attendance

David Wikler (IBA)
Bruce Curran (VA)
Harold Beunk (Demcon)
Jim Percy (Elekta)
Thomas Schwere (Varian)
Yili Luo (United Imaging)
Xiao Gu (United Imaging)
David Holst (Raysearch)
Bruce Rakes (Mevion)
Bob Pekarek (Accuray)
Stefan Boman (Elekta)
Walter Bosch (WashU)
Jill Moton (AAPM)
Sanjay Bari (Elekta)
Scott Hadley (UMich)

Minutes

- I. Call to Order at 10:35am EDT
- II. Review Agenda – agenda was reviewed and approved.
- III. Review Minutes
 - a. Minutes from the Aug 29, 2024 TC teleconference were reviewed.
 - i. **Motion to approve by David Wikler; seconded by Bob Pekarek; approved without objection or abstention.**
- IV. Administrative topics
 - a. Publications Status (TPPC-Brachy and TDR-Brachy TI published 5 Sep 2024)
 - i. Goal is to have informal testing as soon as possible. Remote workshop format is appropriate.
 - ii. Discussion of how to encourage implementation of the Profile.
 - b. Connectathon Participation and registration
 - i. Pre-testing instructions to be sent out by Sept. 16, 2024.
 - ii. Test tool results are due Sept. 30, 2024. Participants were reminded to download the latest version of Test Tool software for pre-testing.
 - iii. New VPN accounts have been created and distributed. All participants are asked to check their VPN accounts to confirm access to the Test Archive.

- iv. Use of IHE Connectathon Seal for IHE-RO product Integration Statements is supported in principle. A mechanism for communicating official IHE-RO Connectathon results to the IHE-Catalyst infrastructure is being investigated.
 - c. DICOM WG-07 RT Strategic Whitepaper initiative
 - i. David, Jim, and Walter presented an outline of the white paper on Sept. 12, 2024.
 - ii. Identified priority to encourage secure transfer of data.
 - iii. Acknowledged the use of FHIR in future initiatives. Broader input is needed.
 - d. Class Action Compliant linked to data breach in RT workflow
 - i. Brief discussion of data security issues.
 - V. Subcommittee reports
 - a. AAPM TG-263 (Standardized Nomenclature) Update 1 is in review, to be released soon.
 - VI. Profile Maintenance
 - a. BRTO-II CP for (CLOSEPLANAR_XOR)
 - i. Pre-read [IHE Change Proposal-add CLOSEDPLANAR_XOR option for BRTO-II v5 CP for check only](#) in Box /IHERO TC share/BRTO-II (Add COPLANAR_XOR as CP
 - ii. Discussion of handling of XOR encoded contours in Structure Set consumers.
 - iii. **ACTION:** Jim Percy to refine wording to indicate that consumers must reject data with enclosed contours if they cannot correctly handle this encoding of the Contour Data attribute.
- VII. Profile Development and Testing
 - a. SMRT Sequence Diagram
 - i. Pre-read [SMRT Sequence Diagram.drawio v2.svg](#) and [Schedule v3.svg](#) in Box /IHERO TC share/SMRT (Shared Management of RT)
 - ii. Yili Luo presented an updated data model for Treatment Session Scheduling.
 - iii. Discussion regarding communication of scheduling information in HL7v2.
 - iv. A parallel effort in China appears to address exchange of the scheduling data. Concern expressed over multiple, divergent solutions.
 - v. Proposal to convene a work group to accelerate development of SMRT with the goal of synchronizing Profiles.
 - vi. **ACTION:** Jim and Sanjay to draft vendor survey on development and implementation of the SMRT Profile.
 - vii. **ACTION:** Jill to send email survey to vendors,
 - viii. **ACTION:** David to bring SMRT Profile development to IHE-RO PC.
 - ix. **ACTION:** Xiao Gu to help organize a joint meeting with Chinese vendors and “National Medical Products Administration” (Linac regulatory body).
- VIII. Meeting was adjourned at 12:06pm EDT.
- IX. Next meetings
 - a. IHE-RO TC monthly meeting on ~~Oct. 17, 2024~~ **CANCELLED**
 - b. 2024 Connectathon wrap-up on Oct. 23, 2024 at 10:30am–12:30pm ET
 - c. IHE-RO TC monthly meeting on Nov. 21, 2024 at 10:30am ET