

IHE-RO Technical Committee Conference Call

July 20, 2023

10:30 am – 11:50 pm ET

Technical Committee Chairs:

Scott Hadley, PhD, University of Michigan

Jon Treffert, RaySearch

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

Jon Treffert (Raysearch)
Walter Bosch (Wash U)
Harold Beunk (Demcon)
Jim Percy (Elekta)
Bruce Rakes (Mevion)
Richard Vögele (Brainlab)
Thomas Schwere (Varian)
Bob Pekarek (Accuray)
Sanjay Bari (Elekta)
David Wikler (IBA)
Bruce Curran (VCU)
Scott Hadley (UMich)

Minutes

- I. Call to Order at 10:34 am EDT
- II. Review Agenda
- III. Review Minutes
 - a. Minutes from the June 15, 2023 TC Teleconference were reviewed. Motion to approve by Bruce Curran seconded by Bob Pekarek; approved without objection or abstention.
- IV. Review TDW-II Update draft
 - a. Update of actors and transactions RO-58, RO-60, RO-64 for re-use in other profiles (TDOR, TDW III) [In preparation, TC were asked to read text in the **IHE-RO Box Drive**: IHERO TC Share\TDW-II\ihe_ro_supp_tdw-ii_v2-rev21.docx
 - b. Change Proposal: modify Transaction names to generalize their applicability and to conform with IHE naming for transactions, i.e., begin with a verb. Wording of requirements for these Transactions was reviewed to facilitate their use in other Profiles.
 - c. Topics discussed include the following:
 - i. Response to Query for Scheduled UPS – should the C-FIND response be limited to exactly one UPS? (Is this an additional constraint on the DICOM Standard?) This issue to be reviewed/resolved by the TDW subgroup.
 - ii. Labeling of Scheduled Processing Parameters using code value 99IHERO2018 – should this be revised?
 - iii. Update of Actor definitions to make them more generic.

- V. Review TDW-III draft – discussion was deferred
 - a. [In preparation, were asked to read text in the [IHE-RO Box Drive: IHERO TC Share\TDW-III\ihe_ro_supp_tdw-iii_0.1.docx](#)

- VI. Review Active Profile Status
 - a. Update Wiki (?)

- VII. TDW
 - a. Proposal to re-name IHE-RO subgroup – “Treatment Session Management” group?
 - b. Group would function under IHE-RO alone.
 - i. Profiles might use FHIR as a base standard.
 - ii. Use of DICOM would require creation of workflow instruction IODs (like BDI).

- VIII. TDOR implementation
 - a. Vendor plans/timeline
 - i. Development of implementations competes with other efforts and is contingent on having test partners.
 - ii. TMS vendors expect prototype development in 2024
 - iii. TDD vendors expect prototype development in 2024
 - b. Test tool development
 - i. Basic UPS server to assist developers: manual review of UPS/content, minimal validation
 - ii. Add Session UID attribute.
 - iii. Timeline: development of a basic test tool appears to be feasible by the end of 2023

- IX. Planning Committee
 - a. Meeting Feedback
 - b. Vendor introduction (Unite RT)
 - c. Next Profile review
 - d. ACTION: Jon to solicit guidance for prioritizing Profile development.

- X. Adjournment at 11:59am EDT